

activemq-cpp-3.0.1

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Contents

1	Namespace Index	1
1.1	Namespace List	1
2	Data Structure Index	3
2.1	Class Hierarchy	3
3	Data Structure Index	19
3.1	Data Structures	19
4	File Index	43
4.1	File List	43
5	Namespace Documentation	57
5.1	activemq Namespace Reference	57
5.1.1	Detailed Description	57
5.2	activemq::cmsutil Namespace Reference	58
5.3	activemq::commands Namespace Reference	59
5.4	activemq::core Namespace Reference	61
5.5	activemq::exceptions Namespace Reference	62
5.6	activemq::io Namespace Reference	63
5.7	activemq::library Namespace Reference	64
5.8	activemq::state Namespace Reference	65
5.9	activemq::threads Namespace Reference	66
5.10	activemq::transport Namespace Reference	67
5.11	activemq::transport::correlator Namespace Reference	68
5.12	activemq::transport::failover Namespace Reference	69
5.13	activemq::transport::logging Namespace Reference	70
5.14	activemq::transport::mock Namespace Reference	71
5.15	activemq::transport::tcp Namespace Reference	72
5.16	activemq::util Namespace Reference	73

5.17	activemq::wireformat Namespace Reference	74
5.18	activemq::wireformat::openwire Namespace Reference	75
5.19	activemq::wireformat::openwire::marshal Namespace Reference	76
5.20	activemq::wireformat::openwire::marshal::v1 Namespace Reference	77
5.21	activemq::wireformat::openwire::marshal::v2 Namespace Reference	81
5.22	activemq::wireformat::openwire::marshal::v3 Namespace Reference	85
5.23	activemq::wireformat::openwire::utils Namespace Reference	89
5.24	activemq::wireformat::stomp Namespace Reference	90
5.25	cms Namespace Reference	91
5.25.1	Detailed Description	93
5.26	decaf Namespace Reference	94
5.26.1	Detailed Description	94
5.27	decaf::internal Namespace Reference	95
5.28	decaf::internal::io Namespace Reference	96
5.29	decaf::internal::net Namespace Reference	97
5.30	decaf::internal::nio Namespace Reference	98
5.31	decaf::internal::util Namespace Reference	99
5.32	decaf::io Namespace Reference	100
5.33	decaf::lang Namespace Reference	102
5.33.1	Function Documentation	103
5.33.1.1	operator!=	103
5.33.1.2	operator!=	103
5.33.1.3	operator==	103
5.33.1.4	operator==	103
5.34	decaf::lang::exceptions Namespace Reference	104
5.35	decaf::net Namespace Reference	105
5.36	decaf::nio Namespace Reference	106
5.37	decaf::security Namespace Reference	107
5.38	decaf::security::auth Namespace Reference	108
5.39	decaf::security::auth::x500 Namespace Reference	109
5.40	decaf::security::cert Namespace Reference	110
5.41	decaf::security_provider Namespace Reference	111
5.42	decaf::security_provider::unix Namespace Reference	112
5.43	decaf::security_provider::unix::openssl Namespace Reference	113
5.44	decaf::util Namespace Reference	114
5.45	decaf::util::concurrent Namespace Reference	116

5.46	decaf::util::concurrent::atomic Namespace Reference	118
5.47	decaf::util::concurrent::locks Namespace Reference	119
5.48	decaf::util::logging Namespace Reference	120
5.48.1	Enumeration Type Documentation	120
5.48.1.1	Level	120
5.49	std Namespace Reference	122
6	Data Structure Documentation	123
6.1	decaf::util::AbstractCollection< E > Class Template Reference	123
6.1.1	Detailed Description	125
6.1.2	Constructor & Destructor Documentation	125
6.1.2.1	~AbstractCollection	125
6.1.3	Member Function Documentation	125
6.1.3.1	add	125
6.1.3.2	addAll	126
6.1.3.3	clear	127
6.1.3.4	contains	127
6.1.3.5	containsAll	128
6.1.3.6	copy	128
6.1.3.7	equals	128
6.1.3.8	isEmpty	129
6.1.3.9	lock	129
6.1.3.10	notify	129
6.1.3.11	notifyAll	129
6.1.3.12	operator=	130
6.1.3.13	remove	130
6.1.3.14	removeAll	131
6.1.3.15	retainAll	131
6.1.3.16	toArray	132
6.1.3.17	unlock	132
6.1.3.18	wait	132
6.1.3.19	wait	133
6.1.4	Field Documentation	133
6.1.4.1	mutex	133
6.2	decaf::util::AbstractList< E > Class Template Reference	134
6.2.1	Detailed Description	134
6.2.2	Constructor & Destructor Documentation	134

6.2.2.1	<code>~AbstractList</code>	134
6.3	<code>decaf::util::AbstractMap< K, V, COMPARATOR ></code> Class Template Reference	135
6.3.1	Detailed Description	135
6.3.2	Constructor & Destructor Documentation	135
6.3.2.1	<code>~AbstractMap</code>	135
6.4	<code>decaf::util::AbstractQueue< E ></code> Class Template Reference	136
6.4.1	Detailed Description	136
6.4.2	Constructor & Destructor Documentation	137
6.4.2.1	<code>AbstractQueue</code>	137
6.4.2.2	<code>~AbstractQueue</code>	137
6.4.3	Member Function Documentation	137
6.4.3.1	<code>add</code>	137
6.4.3.2	<code>addAll</code>	137
6.4.3.3	<code>clear</code>	138
6.4.3.4	<code>element</code>	138
6.4.3.5	<code>remove</code>	138
6.5	<code>decaf::util::AbstractSequentialList< E ></code> Class Template Reference	140
6.5.1	Detailed Description	140
6.5.2	Constructor & Destructor Documentation	140
6.5.2.1	<code>~AbstractSequentialList</code>	140
6.6	<code>decaf::util::AbstractSet< E ></code> Class Template Reference	141
6.6.1	Detailed Description	141
6.6.2	Constructor & Destructor Documentation	141
6.6.2.1	<code>~AbstractSet</code>	141
6.6.3	Member Function Documentation	141
6.6.3.1	<code>removeAll</code>	141
6.7	<code>activemq::transport::AbstractTransportFactory</code> Class Reference	143
6.7.1	Detailed Description	143
6.7.2	Constructor & Destructor Documentation	143
6.7.2.1	<code>~AbstractTransportFactory</code>	143
6.7.3	Member Function Documentation	143
6.7.3.1	<code>createWireFormat</code>	143
6.8	<code>activemq::core::ActiveMQAckHandler</code> Class Reference	145
6.8.1	Detailed Description	145
6.8.2	Constructor & Destructor Documentation	145
6.8.2.1	<code>~ActiveMQAckHandler</code>	145

6.8.3	Member Function Documentation	145
6.8.3.1	acknowledgeMessage	145
6.9	activemq::commands::ActiveMQBlobMessage Class Reference	146
6.9.1	Constructor & Destructor Documentation	147
6.9.1.1	ActiveMQBlobMessage	147
6.9.1.2	~ActiveMQBlobMessage	147
6.9.2	Member Function Documentation	147
6.9.2.1	clone	147
6.9.2.2	cloneDataStructure	147
6.9.2.3	copyDataStructure	147
6.9.2.4	equals	148
6.9.2.5	getDataStructureType	148
6.9.2.6	getMimeType	148
6.9.2.7	getName	148
6.9.2.8	getRemoteBlobUrl	148
6.9.2.9	isDeletedByBroker	149
6.9.2.10	setDeletedByBroker	149
6.9.2.11	setMimeType	149
6.9.2.12	setName	149
6.9.2.13	setRemoteBlobUrl	149
6.9.2.14	toString	150
6.9.3	Field Documentation	150
6.9.3.1	BINARY_MIME_TYPE	150
6.9.3.2	ID_ACTIVEMQBLOBMESSAGE	150
6.10	activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller Class Reference	151
6.10.1	Detailed Description	151
6.10.2	Constructor & Destructor Documentation	152
6.10.2.1	ActiveMQBlobMessageMarshaller	152
6.10.2.2	~ActiveMQBlobMessageMarshaller	152
6.10.3	Member Function Documentation	152
6.10.3.1	createObject	152
6.10.3.2	getDataStructureType	152
6.10.3.3	looseMarshal	152
6.10.3.4	looseUnmarshal	153
6.10.3.5	tightMarshal1	153
6.10.3.6	tightMarshal2	154

6.10.3.7	tightUnmarshal	154
6.11	activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller	
	Class Reference	155
6.11.1	Detailed Description	155
6.11.2	Constructor & Destructor Documentation	156
6.11.2.1	ActiveMQBlobMessageMarshaller	156
6.11.2.2	~ActiveMQBlobMessageMarshaller	156
6.11.3	Member Function Documentation	156
6.11.3.1	createObject	156
6.11.3.2	getDataStructureType	156
6.11.3.3	looseMarshal	156
6.11.3.4	looseUnmarshal	157
6.11.3.5	tightMarshal1	157
6.11.3.6	tightMarshal2	158
6.11.3.7	tightUnmarshal	158
6.12	activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller	
	Class Reference	159
6.12.1	Detailed Description	159
6.12.2	Constructor & Destructor Documentation	160
6.12.2.1	ActiveMQBlobMessageMarshaller	160
6.12.2.2	~ActiveMQBlobMessageMarshaller	160
6.12.3	Member Function Documentation	160
6.12.3.1	createObject	160
6.12.3.2	getDataStructureType	160
6.12.3.3	looseMarshal	160
6.12.3.4	looseUnmarshal	161
6.12.3.5	tightMarshal1	161
6.12.3.6	tightMarshal2	162
6.12.3.7	tightUnmarshal	162
6.13	activemq::commands::ActiveMQBytesMessage Class Reference	163
6.13.1	Constructor & Destructor Documentation	166
6.13.1.1	ActiveMQBytesMessage	166
6.13.1.2	~ActiveMQBytesMessage	166
6.13.2	Member Function Documentation	166
6.13.2.1	checkWriteOnlyBody	166
6.13.2.2	clearBody	166
6.13.2.3	clone	166

6.13.2.4	cloneDataStructure	166
6.13.2.5	copyDataStructure	167
6.13.2.6	equals	167
6.13.2.7	getBodyBytes	167
6.13.2.8	getBodyLength	167
6.13.2.9	getDataStructureType	168
6.13.2.10	readBoolean	168
6.13.2.11	readByte	168
6.13.2.12	readBytes	168
6.13.2.13	readBytes	169
6.13.2.14	readChar	169
6.13.2.15	readDouble	170
6.13.2.16	readFloat	170
6.13.2.17	readInt	170
6.13.2.18	readLong	171
6.13.2.19	readShort	171
6.13.2.20	readString	171
6.13.2.21	readUnsignedShort	171
6.13.2.22	readUTF	172
6.13.2.23	reset	172
6.13.2.24	setBodyBytes	172
6.13.2.25	toString	173
6.13.2.26	writeBoolean	173
6.13.2.27	writeByte	173
6.13.2.28	writeBytes	173
6.13.2.29	writeBytes	174
6.13.2.30	writeChar	174
6.13.2.31	writeDouble	174
6.13.2.32	writeFloat	175
6.13.2.33	writeInt	175
6.13.2.34	writeLong	175
6.13.2.35	writeShort	175
6.13.2.36	writeString	176
6.13.2.37	writeUnsignedShort	176
6.13.2.38	writeUTF	176
6.13.3	Field Documentation	177

6.13.3.1	ID_ACTIVEMQBYTESMESSAGE	177
6.14	activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller	
	Class Reference	178
6.14.1	Detailed Description	178
6.14.2	Constructor & Destructor Documentation	179
6.14.2.1	ActiveMQBytesMessageMarshaller	179
6.14.2.2	~ActiveMQBytesMessageMarshaller	179
6.14.3	Member Function Documentation	179
6.14.3.1	createObject	179
6.14.3.2	getDataStructureType	179
6.14.3.3	looseMarshal	179
6.14.3.4	looseUnmarshal	180
6.14.3.5	tightMarshal1	180
6.14.3.6	tightMarshal2	181
6.14.3.7	tightUnmarshal	181
6.15	activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller	
	Class Reference	182
6.15.1	Detailed Description	182
6.15.2	Constructor & Destructor Documentation	183
6.15.2.1	ActiveMQBytesMessageMarshaller	183
6.15.2.2	~ActiveMQBytesMessageMarshaller	183
6.15.3	Member Function Documentation	183
6.15.3.1	createObject	183
6.15.3.2	getDataStructureType	183
6.15.3.3	looseMarshal	183
6.15.3.4	looseUnmarshal	184
6.15.3.5	tightMarshal1	184
6.15.3.6	tightMarshal2	185
6.15.3.7	tightUnmarshal	185
6.16	activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller	
	Class Reference	186
6.16.1	Detailed Description	186
6.16.2	Constructor & Destructor Documentation	187
6.16.2.1	ActiveMQBytesMessageMarshaller	187
6.16.2.2	~ActiveMQBytesMessageMarshaller	187
6.16.3	Member Function Documentation	187
6.16.3.1	createObject	187

6.16.3.2	getDataStructureType	187
6.16.3.3	looseMarshal	187
6.16.3.4	looseUnmarshal	188
6.16.3.5	tightMarshal1	188
6.16.3.6	tightMarshal2	189
6.16.3.7	tightUnmarshal	189
6.17	activemq::core::ActiveMQConnection Class Reference	190
6.17.1	Detailed Description	192
6.17.2	Constructor & Destructor Documentation	192
6.17.2.1	ActiveMQConnection	192
6.17.2.2	~ActiveMQConnection	193
6.17.3	Member Function Documentation	193
6.17.3.1	addDispatcher	193
6.17.3.2	addProducer	193
6.17.3.3	close	193
6.17.3.4	createSession	193
6.17.3.5	createSession	194
6.17.3.6	destroyDestination	194
6.17.3.7	destroyDestination	194
6.17.3.8	disposeOf	195
6.17.3.9	disposeOf	195
6.17.3.10	fire	195
6.17.3.11	getClientID	195
6.17.3.12	getConnectionId	196
6.17.3.13	getConnectionInfo	196
6.17.3.14	getExceptionListener	196
6.17.3.15	getMetaData	196
6.17.3.16	isClosed	196
6.17.3.17	isStarted	197
6.17.3.18	onCommand	197
6.17.3.19	oneway	197
6.17.3.20	onException	197
6.17.3.21	removeDispatcher	197
6.17.3.22	removeProducer	198
6.17.3.23	removeSession	198
6.17.3.24	sendPullRequest	198

6.17.3.25	setExceptionListener	198
6.17.3.26	start	198
6.17.3.27	stop	199
6.17.3.28	syncRequest	199
6.17.3.29	transportInterrupted	199
6.18	activemq::core::ActiveMQConnectionFactory Class Reference	200
6.18.1	Constructor & Destructor Documentation	201
6.18.1.1	ActiveMQConnectionFactory	201
6.18.1.2	ActiveMQConnectionFactory	201
6.18.1.3	~ActiveMQConnectionFactory	201
6.18.2	Member Function Documentation	201
6.18.2.1	createConnection	201
6.18.2.2	createConnection	202
6.18.2.3	createConnection	202
6.18.2.4	createConnection	202
6.18.2.5	getBrokerURL	203
6.18.2.6	getPassword	203
6.18.2.7	getUsername	203
6.18.2.8	setBrokerURL	203
6.18.2.9	setPassword	204
6.18.2.10	setUsername	204
6.19	activemq::core::ActiveMQConnectionMetaData Class Reference	205
6.19.1	Detailed Description	205
6.19.2	Constructor & Destructor Documentation	206
6.19.2.1	ActiveMQConnectionMetaData	206
6.19.2.2	~ActiveMQConnectionMetaData	206
6.19.3	Member Function Documentation	206
6.19.3.1	getCMSMajorVersion	206
6.19.3.2	getCMSMinorVersion	206
6.19.3.3	getCMSProviderName	206
6.19.3.4	getCMSVersion	207
6.19.3.5	getCMSXPropertyNames	207
6.19.3.6	getProviderMajorVersion	207
6.19.3.7	getProviderMinorVersion	208
6.19.3.8	getProviderVersion	208
6.20	activemq::core::ActiveMQConnectionSupport Class Reference	209

6.20.1	Constructor & Destructor Documentation	210
6.20.1.1	ActiveMQConnectionSupport	210
6.20.1.2	~ActiveMQConnectionSupport	211
6.20.2	Member Function Documentation	211
6.20.2.1	getClientId	211
6.20.2.2	getCloseTimeout	211
6.20.2.3	getNextSessionId	211
6.20.2.4	getNextTempDestinationId	211
6.20.2.5	getPassword	211
6.20.2.6	getProducerWindowSize	212
6.20.2.7	getProperties	212
6.20.2.8	getSendTimeout	212
6.20.2.9	getTransport	212
6.20.2.10	getUsername	213
6.20.2.11	isAlwaysSyncSend	213
6.20.2.12	isUseAsyncSend	213
6.20.2.13	setAlwaysSyncSend	213
6.20.2.14	setClientId	213
6.20.2.15	setCloseTimeout	213
6.20.2.16	setPassword	214
6.20.2.17	setProducerWindowSize	214
6.20.2.18	setSendTimeout	214
6.20.2.19	setUseAsyncSend	214
6.20.2.20	setUsername	214
6.20.2.21	shutdownTransport	215
6.20.2.22	startupTransport	215
6.20.2.23	transportResumed	215
6.21	activemq::core::ActiveMQConstants Class Reference	216
6.21.1	Detailed Description	217
6.21.2	Member Enumeration Documentation	217
6.21.2.1	AckType	217
6.21.2.2	DestinationActions	217
6.21.2.3	DestinationOption	217
6.21.2.4	TransactionState	218
6.21.2.5	URIParam	218
6.21.3	Member Function Documentation	218

6.21.3.1	toDestinationOption	218
6.21.3.2	toString	218
6.21.3.3	toString	218
6.21.3.4	toURIOption	218
6.22	activemq::core::ActiveMQConsumer Class Reference	219
6.22.1	Constructor & Destructor Documentation	221
6.22.1.1	ActiveMQConsumer	221
6.22.1.2	~ActiveMQConsumer	221
6.22.2	Member Function Documentation	221
6.22.2.1	acknowledge	221
6.22.2.2	acknowledgeMessage	221
6.22.2.3	afterMessageIsConsumed	221
6.22.2.4	beforeMessageIsConsumed	222
6.22.2.5	clearMessagesInProgress	222
6.22.2.6	close	222
6.22.2.7	commit	222
6.22.2.8	deliverAcks	222
6.22.2.9	dequeue	222
6.22.2.10	dispatch	223
6.22.2.11	doClose	223
6.22.2.12	getConsumerId	223
6.22.2.13	getConsumerInfo	223
6.22.2.14	getMessageListener	224
6.22.2.15	getMessageSelector	224
6.22.2.16	isClosed	224
6.22.2.17	issynchronizationRegistered	224
6.22.2.18	iterate	224
6.22.2.19	receive	224
6.22.2.20	receive	225
6.22.2.21	receiveNoWait	225
6.22.2.22	rollback	225
6.22.2.23	setMessageListener	226
6.22.2.24	setSynchronizationRegistered	226
6.22.2.25	start	226
6.22.2.26	stop	226
6.23	activemq::library::ActiveMQCPP Class Reference	227

6.23.1	Constructor & Destructor Documentation	227
6.23.1.1	ActiveMQCPP	227
6.23.1.2	ActiveMQCPP	227
6.23.1.3	~ActiveMQCPP	227
6.23.2	Member Function Documentation	227
6.23.2.1	initializeLibrary	227
6.23.2.2	initializeLibrary	228
6.23.2.3	operator=	228
6.23.2.4	shutdownLibrary	228
6.24	activemq::commands::ActiveMQDestination Class Reference	229
6.24.1	Constructor & Destructor Documentation	231
6.24.1.1	ActiveMQDestination	231
6.24.1.2	ActiveMQDestination	231
6.24.1.3	~ActiveMQDestination	231
6.24.2	Member Function Documentation	231
6.24.2.1	cloneDataStructure	231
6.24.2.2	copyDataStructure	232
6.24.2.3	createDestination	232
6.24.2.4	createTemporaryName	232
6.24.2.5	equals	233
6.24.2.6	getClientId	233
6.24.2.7	getCMSDestination	233
6.24.2.8	getDataStructureType	233
6.24.2.9	getDestinationType	234
6.24.2.10	getOptions	234
6.24.2.11	getOrderedTarget	234
6.24.2.12	getPhysicalName	234
6.24.2.13	getPhysicalName	234
6.24.2.14	isAdvisory	235
6.24.2.15	isComposite	235
6.24.2.16	isConnectionAdvisory	235
6.24.2.17	isConsumerAdvisory	235
6.24.2.18	isExclusive	235
6.24.2.19	isOrdered	235
6.24.2.20	isProducerAdvisory	236
6.24.2.21	isQueue	236

6.24.2.22	isTemporary	236
6.24.2.23	isTopic	236
6.24.2.24	isWildcard	236
6.24.2.25	setAdvisory	236
6.24.2.26	setExclusive	237
6.24.2.27	setOrdered	237
6.24.2.28	setOrderedTarget	237
6.24.2.29	setPhysicalName	237
6.24.2.30	toString	237
6.24.3	Field Documentation	238
6.24.3.1	advisory	238
6.24.3.2	ADVISORY_PREFIX	238
6.24.3.3	COMPOSITE_SEPARATOR	238
6.24.3.4	CONNECTION_ADVISORY_PREFIX	238
6.24.3.5	CONSUMER_ADVISORY_PREFIX	238
6.24.3.6	DEFAULT_ORDERED_TARGET	238
6.24.3.7	exclusive	239
6.24.3.8	ID_ACTIVEMQDESTINATION	239
6.24.3.9	options	239
6.24.3.10	ordered	239
6.24.3.11	orderedTarget	239
6.24.3.12	physicalName	239
6.24.3.13	PRODUCER_ADVISORY_PREFIX	239
6.24.3.14	QUEUE_QUALIFIED_PREFIX	239
6.24.3.15	TEMP_POSTFIX	239
6.24.3.16	TEMP_PREFIX	239
6.24.3.17	TEMP_QUEUE_QUALIFIED_PREFIX	239
6.24.3.18	TEMP_TOPIC_QUALIFIED_PREFIX	239
6.24.3.19	TOPIC_QUALIFIED_PREFIX	239
6.25	activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller	
	Class Reference	240
6.25.1	Detailed Description	240
6.25.2	Constructor & Destructor Documentation	241
6.25.2.1	ActiveMQDestinationMarshaller	241
6.25.2.2	~ActiveMQDestinationMarshaller	241
6.25.3	Member Function Documentation	241
6.25.3.1	looseMarshal	241

6.25.3.2	looseUnmarshal	241
6.25.3.3	tightMarshal1	242
6.25.3.4	tightMarshal2	242
6.25.3.5	tightUnmarshal	243
6.26	activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller	
	Class Reference	244
6.26.1	Detailed Description	244
6.26.2	Constructor & Destructor Documentation	245
6.26.2.1	ActiveMQDestinationMarshaller	245
6.26.2.2	~ActiveMQDestinationMarshaller	245
6.26.3	Member Function Documentation	245
6.26.3.1	looseMarshal	245
6.26.3.2	looseUnmarshal	245
6.26.3.3	tightMarshal1	246
6.26.3.4	tightMarshal2	246
6.26.3.5	tightUnmarshal	247
6.27	activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller	
	Class Reference	248
6.27.1	Detailed Description	248
6.27.2	Constructor & Destructor Documentation	249
6.27.2.1	ActiveMQDestinationMarshaller	249
6.27.2.2	~ActiveMQDestinationMarshaller	249
6.27.3	Member Function Documentation	249
6.27.3.1	looseMarshal	249
6.27.3.2	looseUnmarshal	249
6.27.3.3	tightMarshal1	250
6.27.3.4	tightMarshal2	250
6.27.3.5	tightUnmarshal	251
6.28	activemq::exceptions::ActiveMQException Class Reference	252
6.28.1	Constructor & Destructor Documentation	252
6.28.1.1	ActiveMQException	252
6.28.1.2	ActiveMQException	252
6.28.1.3	ActiveMQException	253
6.28.1.4	ActiveMQException	253
6.28.1.5	~ActiveMQException	253
6.28.2	Member Function Documentation	253
6.28.2.1	clone	253

6.28.2.2	convertToCMSException	253
6.29	activemq::commands::ActiveMQMapMessage Class Reference	255
6.29.1	Constructor & Destructor Documentation	257
6.29.1.1	ActiveMQMapMessage	257
6.29.1.2	~ActiveMQMapMessage	257
6.29.2	Member Function Documentation	257
6.29.2.1	beforeMarshal	257
6.29.2.2	checkMapIsUnmarshalled	258
6.29.2.3	clone	258
6.29.2.4	cloneDataStructure	258
6.29.2.5	copyDataStructure	258
6.29.2.6	equals	259
6.29.2.7	getBoolean	259
6.29.2.8	getByte	259
6.29.2.9	getBytes	259
6.29.2.10	getChar	260
6.29.2.11	getDataStructureType	260
6.29.2.12	getDouble	260
6.29.2.13	getFloat	260
6.29.2.14	getInt	261
6.29.2.15	getLong	261
6.29.2.16	getMap	261
6.29.2.17	getMap	261
6.29.2.18	getMapNames	262
6.29.2.19	getShort	262
6.29.2.20	getString	262
6.29.2.21	isMarshalAware	262
6.29.2.22	itemExists	263
6.29.2.23	setBoolean	263
6.29.2.24	setByte	263
6.29.2.25	setBytes	264
6.29.2.26	setChar	264
6.29.2.27	setDouble	264
6.29.2.28	setFloat	265
6.29.2.29	setInt	265
6.29.2.30	setLong	265

6.29.2.31	setShort	266
6.29.2.32	setString	266
6.29.2.33	toString	266
6.29.3	Field Documentation	266
6.29.3.1	ID_ACTIVEMQMAPMESSAGE	266
6.30	activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller	
	Class Reference	267
6.30.1	Detailed Description	267
6.30.2	Constructor & Destructor Documentation	268
6.30.2.1	ActiveMQMapMessageMarshaller	268
6.30.2.2	~ActiveMQMapMessageMarshaller	268
6.30.3	Member Function Documentation	268
6.30.3.1	createObject	268
6.30.3.2	getDataStructureType	268
6.30.3.3	looseMarshal	268
6.30.3.4	looseUnmarshal	269
6.30.3.5	tightMarshal1	269
6.30.3.6	tightMarshal2	270
6.30.3.7	tightUnmarshal	270
6.31	activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller	
	Class Reference	271
6.31.1	Detailed Description	271
6.31.2	Constructor & Destructor Documentation	272
6.31.2.1	ActiveMQMapMessageMarshaller	272
6.31.2.2	~ActiveMQMapMessageMarshaller	272
6.31.3	Member Function Documentation	272
6.31.3.1	createObject	272
6.31.3.2	getDataStructureType	272
6.31.3.3	looseMarshal	272
6.31.3.4	looseUnmarshal	273
6.31.3.5	tightMarshal1	273
6.31.3.6	tightMarshal2	274
6.31.3.7	tightUnmarshal	274
6.32	activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller	
	Class Reference	275
6.32.1	Detailed Description	275
6.32.2	Constructor & Destructor Documentation	276

6.32.2.1	ActiveMQMapMessageMarshaller	276
6.32.2.2	~ActiveMQMapMessageMarshaller	276
6.32.3	Member Function Documentation	276
6.32.3.1	createObject	276
6.32.3.2	getDataStructureType	276
6.32.3.3	looseMarshal	276
6.32.3.4	looseUnmarshal	277
6.32.3.5	tightMarshal1	277
6.32.3.6	tightMarshal2	278
6.32.3.7	tightUnmarshal	278
6.33	activemq::commands::ActiveMQMessage Class Reference	279
6.33.1	Constructor & Destructor Documentation	279
6.33.1.1	ActiveMQMessage	279
6.33.1.2	~ActiveMQMessage	279
6.33.2	Member Function Documentation	279
6.33.2.1	clone	279
6.33.2.2	cloneDataStructure	280
6.33.2.3	copyDataStructure	280
6.33.2.4	equals	280
6.33.2.5	getDataStructureType	280
6.33.2.6	toString	281
6.33.3	Field Documentation	281
6.33.3.1	ID_ACTIVEMQMESSAGE	281
6.34	activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller Class Reference	282
6.34.1	Detailed Description	282
6.34.2	Constructor & Destructor Documentation	283
6.34.2.1	ActiveMQMessageMarshaller	283
6.34.2.2	~ActiveMQMessageMarshaller	283
6.34.3	Member Function Documentation	283
6.34.3.1	createObject	283
6.34.3.2	getDataStructureType	283
6.34.3.3	looseMarshal	283
6.34.3.4	looseUnmarshal	284
6.34.3.5	tightMarshal1	284
6.34.3.6	tightMarshal2	285
6.34.3.7	tightUnmarshal	285

6.35	activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller	Class	
	Reference		286
6.35.1	Detailed Description		286
6.35.2	Constructor & Destructor Documentation		287
6.35.2.1	ActiveMQMessageMarshaller		287
6.35.2.2	~ActiveMQMessageMarshaller		287
6.35.3	Member Function Documentation		287
6.35.3.1	createObject		287
6.35.3.2	getDataStructureType		287
6.35.3.3	looseMarshal		287
6.35.3.4	looseUnmarshal		288
6.35.3.5	tightMarshal1		288
6.35.3.6	tightMarshal2		289
6.35.3.7	tightUnmarshal		289
6.36	activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller	Class	
	Reference		290
6.36.1	Detailed Description		290
6.36.2	Constructor & Destructor Documentation		291
6.36.2.1	ActiveMQMessageMarshaller		291
6.36.2.2	~ActiveMQMessageMarshaller		291
6.36.3	Member Function Documentation		291
6.36.3.1	createObject		291
6.36.3.2	getDataStructureType		291
6.36.3.3	looseMarshal		291
6.36.3.4	looseUnmarshal		292
6.36.3.5	tightMarshal1		292
6.36.3.6	tightMarshal2		293
6.36.3.7	tightUnmarshal		293
6.37	activemq::commands::ActiveMQMessageTemplate< T >	Class Template Reference	294
6.37.1	Constructor & Destructor Documentation		297
6.37.1.1	ActiveMQMessageTemplate		297
6.37.1.2	~ActiveMQMessageTemplate		297
6.37.2	Member Function Documentation		297
6.37.2.1	acknowledge		297
6.37.2.2	checkReadOnlyBody		297
6.37.2.3	checkReadOnlyProperties		297
6.37.2.4	clearBody		297

6.37.2.5	clearProperties	298
6.37.2.6	getBooleanProperty	298
6.37.2.7	getByteProperty	298
6.37.2.8	getCMSCorrelationID	298
6.37.2.9	getCMSDeliveryMode	299
6.37.2.10	getCMSDestination	299
6.37.2.11	getCMSExpiration	299
6.37.2.12	getCMSMessageID	300
6.37.2.13	getCMSPriority	300
6.37.2.14	getCMSRedelivered	300
6.37.2.15	getCMSReplyTo	300
6.37.2.16	getCMSTimestamp	301
6.37.2.17	getCMSType	301
6.37.2.18	getDoubleProperty	301
6.37.2.19	getFloatProperty	302
6.37.2.20	getIntProperty	302
6.37.2.21	getLongProperty	302
6.37.2.22	getPropertyNames	303
6.37.2.23	getShortProperty	303
6.37.2.24	getStringProperty	303
6.37.2.25	propertyExists	303
6.37.2.26	setBooleanProperty	304
6.37.2.27	setByteProperty	304
6.37.2.28	setCMSCorrelationID	304
6.37.2.29	setCMSDeliveryMode	305
6.37.2.30	setCMSDestination	305
6.37.2.31	setCMSExpiration	305
6.37.2.32	setCMSMessageID	305
6.37.2.33	setCMSPriority	306
6.37.2.34	setCMSRedelivered	306
6.37.2.35	setCMSReplyTo	306
6.37.2.36	setCMSTimestamp	307
6.37.2.37	setCMSType	307
6.37.2.38	setDoubleProperty	307
6.37.2.39	setFloatProperty	307
6.37.2.40	setIntProperty	308

6.37.2.41	setLongProperty	308
6.37.2.42	setShortProperty	308
6.37.2.43	setStringProperty	309
6.38	activemq::commands::ActiveMQObjectMessage Class Reference	310
6.38.1	Constructor & Destructor Documentation	311
6.38.1.1	ActiveMQObjectMessage	311
6.38.1.2	~ActiveMQObjectMessage	311
6.38.2	Member Function Documentation	311
6.38.2.1	clone	311
6.38.2.2	cloneDataStructure	311
6.38.2.3	copyDataStructure	311
6.38.2.4	equals	311
6.38.2.5	getDataStructureType	312
6.38.2.6	toString	312
6.38.3	Field Documentation	312
6.38.3.1	ID_ACTIVEMQOBJECTMESSAGE	312
6.39	activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller Class Reference	313
6.39.1	Detailed Description	313
6.39.2	Constructor & Destructor Documentation	314
6.39.2.1	ActiveMQObjectMessageMarshaller	314
6.39.2.2	~ActiveMQObjectMessageMarshaller	314
6.39.3	Member Function Documentation	314
6.39.3.1	createObject	314
6.39.3.2	getDataStructureType	314
6.39.3.3	looseMarshal	314
6.39.3.4	looseUnmarshal	315
6.39.3.5	tightMarshal1	315
6.39.3.6	tightMarshal2	316
6.39.3.7	tightUnmarshal	316
6.40	activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller Class Reference	317
6.40.1	Detailed Description	317
6.40.2	Constructor & Destructor Documentation	318
6.40.2.1	ActiveMQObjectMessageMarshaller	318
6.40.2.2	~ActiveMQObjectMessageMarshaller	318
6.40.3	Member Function Documentation	318

6.40.3.1	createObject	318
6.40.3.2	getDataStructureType	318
6.40.3.3	looseMarshal	318
6.40.3.4	looseUnmarshal	319
6.40.3.5	tightMarshal1	319
6.40.3.6	tightMarshal2	320
6.40.3.7	tightUnmarshal	320
6.41	activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller Class Reference	321
6.41.1	Detailed Description	321
6.41.2	Constructor & Destructor Documentation	322
6.41.2.1	ActiveMQObjectMessageMarshaller	322
6.41.2.2	~ActiveMQObjectMessageMarshaller	322
6.41.3	Member Function Documentation	322
6.41.3.1	createObject	322
6.41.3.2	getDataStructureType	322
6.41.3.3	looseMarshal	322
6.41.3.4	looseUnmarshal	323
6.41.3.5	tightMarshal1	323
6.41.3.6	tightMarshal2	324
6.41.3.7	tightUnmarshal	324
6.42	activemq::core::ActiveMQProducer Class Reference	325
6.42.1	Constructor & Destructor Documentation	326
6.42.1.1	ActiveMQProducer	326
6.42.1.2	~ActiveMQProducer	327
6.42.2	Member Function Documentation	327
6.42.2.1	close	327
6.42.2.2	getDeliveryMode	327
6.42.2.3	getDisableMessageID	327
6.42.2.4	getDisableMessageTimeStamp	327
6.42.2.5	getPriority	328
6.42.2.6	getProducerId	328
6.42.2.7	getProducerInfo	328
6.42.2.8	getSendTimeout	328
6.42.2.9	getTimeToLive	328
6.42.2.10	isClosed	329
6.42.2.11	onProducerAck	329

6.42.2.12	send	329
6.42.2.13	send	329
6.42.2.14	send	330
6.42.2.15	send	330
6.42.2.16	setDeliveryMode	330
6.42.2.17	setDisableMessageID	330
6.42.2.18	setDisableMessageTimeStamp	331
6.42.2.19	setPriority	331
6.42.2.20	setSendTimeout	331
6.42.2.21	setTimeToLive	331
6.43	activemq::util::ActiveMQProperties Class Reference	332
6.43.1	Detailed Description	333
6.43.2	Constructor & Destructor Documentation	333
6.43.2.1	~ActiveMQProperties	333
6.43.3	Member Function Documentation	333
6.43.3.1	clear	333
6.43.3.2	clone	333
6.43.3.3	copy	333
6.43.3.4	getProperties	334
6.43.3.5	getProperties	334
6.43.3.6	getProperty	334
6.43.3.7	getProperty	334
6.43.3.8	hasProperty	334
6.43.3.9	isEmpty	335
6.43.3.10	remove	335
6.43.3.11	setProperties	335
6.43.3.12	setProperty	335
6.43.3.13	toArray	335
6.43.3.14	toString	335
6.44	activemq::commands::ActiveMQQueue Class Reference	337
6.44.1	Constructor & Destructor Documentation	338
6.44.1.1	ActiveMQQueue	338
6.44.1.2	ActiveMQQueue	338
6.44.1.3	~ActiveMQQueue	338
6.44.2	Member Function Documentation	338
6.44.2.1	clone	338

6.44.2.2	cloneDataStructure	338
6.44.2.3	copy	338
6.44.2.4	copyDataStructure	338
6.44.2.5	equals	339
6.44.2.6	getCMSDestination	339
6.44.2.7	getCMSProperties	339
6.44.2.8	getDataStructureType	339
6.44.2.9	getDestinationType	339
6.44.2.10	getQueueName	340
6.44.2.11	toString	340
6.44.3	Field Documentation	340
6.44.3.1	ID_ACTIVEMQQUEUE	340
6.45	activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller Class	
	Reference	341
6.45.1	Detailed Description	341
6.45.2	Constructor & Destructor Documentation	342
6.45.2.1	ActiveMQQueueMarshaller	342
6.45.2.2	~ActiveMQQueueMarshaller	342
6.45.3	Member Function Documentation	342
6.45.3.1	createObject	342
6.45.3.2	getDataStructureType	342
6.45.3.3	looseMarshal	342
6.45.3.4	looseUnmarshal	343
6.45.3.5	tightMarshal1	343
6.45.3.6	tightMarshal2	344
6.45.3.7	tightUnmarshal	344
6.46	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller Class	
	Reference	345
6.46.1	Detailed Description	345
6.46.2	Constructor & Destructor Documentation	346
6.46.2.1	ActiveMQQueueMarshaller	346
6.46.2.2	~ActiveMQQueueMarshaller	346
6.46.3	Member Function Documentation	346
6.46.3.1	createObject	346
6.46.3.2	getDataStructureType	346
6.46.3.3	looseMarshal	346
6.46.3.4	looseUnmarshal	347

6.46.3.5	tightMarshal1	347
6.46.3.6	tightMarshal2	348
6.46.3.7	tightUnmarshal	348
6.47	activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller	Class
	Reference	349
6.47.1	Detailed Description	349
6.47.2	Constructor & Destructor Documentation	350
6.47.2.1	ActiveMQQueueMarshaller	350
6.47.2.2	~ActiveMQQueueMarshaller	350
6.47.3	Member Function Documentation	350
6.47.3.1	createObject	350
6.47.3.2	getDataStructureType	350
6.47.3.3	looseMarshal	350
6.47.3.4	looseUnmarshal	351
6.47.3.5	tightMarshal1	351
6.47.3.6	tightMarshal2	352
6.47.3.7	tightUnmarshal	352
6.48	activemq::core::ActiveMQSession	Class Reference
		353
6.48.1	Constructor & Destructor Documentation	356
6.48.1.1	ActiveMQSession	356
6.48.1.2	~ActiveMQSession	356
6.48.2	Member Function Documentation	356
6.48.2.1	clearMessagesInProgress	356
6.48.2.2	close	356
6.48.2.3	commit	357
6.48.2.4	createBrowser	357
6.48.2.5	createBrowser	357
6.48.2.6	createBytesMessage	358
6.48.2.7	createBytesMessage	358
6.48.2.8	createConsumer	358
6.48.2.9	createConsumer	359
6.48.2.10	createConsumer	359
6.48.2.11	createDurableConsumer	359
6.48.2.12	createMapMessage	360
6.48.2.13	createMessage	360
6.48.2.14	createProducer	360
6.48.2.15	createQueue	361

6.48.2.16 createStreamMessage	361
6.48.2.17 createTemporaryQueue	361
6.48.2.18 createTemporaryTopic	361
6.48.2.19 createTextMessage	362
6.48.2.20 createTextMessage	362
6.48.2.21 createTopic	362
6.48.2.22 deliverAcks	362
6.48.2.23 dispatch	363
6.48.2.24 disposeOf	363
6.48.2.25 disposeOf	363
6.48.2.26 doStartTransaction	363
6.48.2.27 fire	364
6.48.2.28 getAcknowledgeMode	364
6.48.2.29 getConnection	364
6.48.2.30 getExceptionListener	364
6.48.2.31 getSessionId	364
6.48.2.32 getSessionInfo	364
6.48.2.33 isAutoAcknowledge	365
6.48.2.34 isClientAcknowledge	365
6.48.2.35 isDupsOkAcknowledge	365
6.48.2.36 isStarted	365
6.48.2.37 isTransacted	365
6.48.2.38 oneway	365
6.48.2.39 recover	366
6.48.2.40 redispach	366
6.48.2.41 rollback	366
6.48.2.42 send	366
6.48.2.43 start	367
6.48.2.44 stop	367
6.48.2.45 syncRequest	367
6.48.2.46 unsubscribe	367
6.48.2.47 wakeup	368
6.48.3 Friends And Related Function Documentation	368
6.48.3.1 ActiveMQSessionExecutor	368
6.49 activemq::core::ActiveMQSessionExecutor Class Reference	369
6.49.1 Detailed Description	370

6.49.2	Constructor & Destructor Documentation	370
6.49.2.1	ActiveMQSessionExecutor	370
6.49.2.2	~ActiveMQSessionExecutor	370
6.49.3	Member Function Documentation	370
6.49.3.1	clear	370
6.49.3.2	clearMessagesInProgress	370
6.49.3.3	close	370
6.49.3.4	execute	370
6.49.3.5	executeFirst	370
6.49.3.6	getUnconsumedMessages	371
6.49.3.7	hasUnconsumedMessages	371
6.49.3.8	isEmpty	371
6.49.3.9	isRunning	371
6.49.3.10	iterate	371
6.49.3.11	start	371
6.49.3.12	stop	372
6.49.3.13	wakeup	372
6.50	activemq::commands::ActiveMQStreamMessage Class Reference	373
6.50.1	Constructor & Destructor Documentation	376
6.50.1.1	ActiveMQStreamMessage	376
6.50.1.2	~ActiveMQStreamMessage	376
6.50.2	Member Function Documentation	376
6.50.2.1	beforeMarshal	376
6.50.2.2	checkListIsUnmarshalled	376
6.50.2.3	checkWriteOnlyBody	376
6.50.2.4	clearBody	376
6.50.2.5	clone	376
6.50.2.6	cloneDataStructure	377
6.50.2.7	copyDataStructure	377
6.50.2.8	equals	377
6.50.2.9	getDataStructureType	377
6.50.2.10	getList	378
6.50.2.11	getList	378
6.50.2.12	isMarshalAware	378
6.50.2.13	readBoolean	378
6.50.2.14	readByte	378

6.50.2.15	readBytes	379
6.50.2.16	readBytes	379
6.50.2.17	readChar	380
6.50.2.18	readDouble	380
6.50.2.19	readFloat	380
6.50.2.20	readInt	381
6.50.2.21	readLong	381
6.50.2.22	readShort	381
6.50.2.23	readString	381
6.50.2.24	readUnsignedShort	382
6.50.2.25	reset	382
6.50.2.26	toString	382
6.50.2.27	writeBoolean	382
6.50.2.28	writeByte	383
6.50.2.29	writeBytes	383
6.50.2.30	writeBytes	383
6.50.2.31	writeChar	384
6.50.2.32	writeDouble	384
6.50.2.33	writeFloat	384
6.50.2.34	writeInt	384
6.50.2.35	writeLong	385
6.50.2.36	writeShort	385
6.50.2.37	writeString	385
6.50.2.38	writeUnsignedShort	385
6.50.3	Field Documentation	386
6.50.3.1	ID_ACTIVEMQSTREAMMESSAGE	386
6.51	activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller Class Reference	387
6.51.1	Detailed Description	387
6.51.2	Constructor & Destructor Documentation	388
6.51.2.1	ActiveMQStreamMessageMarshaller	388
6.51.2.2	~ActiveMQStreamMessageMarshaller	388
6.51.3	Member Function Documentation	388
6.51.3.1	createObject	388
6.51.3.2	getDataStructureType	388
6.51.3.3	looseMarshal	388
6.51.3.4	looseUnmarshal	389

6.51.3.5	tightMarshal1	389
6.51.3.6	tightMarshal2	390
6.51.3.7	tightUnmarshal	390
6.52	activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller	
	Class Reference	391
6.52.1	Detailed Description	391
6.52.2	Constructor & Destructor Documentation	392
6.52.2.1	ActiveMQStreamMessageMarshaller	392
6.52.2.2	~ActiveMQStreamMessageMarshaller	392
6.52.3	Member Function Documentation	392
6.52.3.1	createObject	392
6.52.3.2	getDataStructureType	392
6.52.3.3	looseMarshal	392
6.52.3.4	looseUnmarshal	393
6.52.3.5	tightMarshal1	393
6.52.3.6	tightMarshal2	394
6.52.3.7	tightUnmarshal	394
6.53	activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller	
	Class Reference	395
6.53.1	Detailed Description	395
6.53.2	Constructor & Destructor Documentation	396
6.53.2.1	ActiveMQStreamMessageMarshaller	396
6.53.2.2	~ActiveMQStreamMessageMarshaller	396
6.53.3	Member Function Documentation	396
6.53.3.1	createObject	396
6.53.3.2	getDataStructureType	396
6.53.3.3	looseMarshal	396
6.53.3.4	looseUnmarshal	397
6.53.3.5	tightMarshal1	397
6.53.3.6	tightMarshal2	398
6.53.3.7	tightUnmarshal	398
6.54	activemq::commands::ActiveMQTempDestination Class Reference	399
6.54.1	Constructor & Destructor Documentation	400
6.54.1.1	ActiveMQTempDestination	400
6.54.1.2	ActiveMQTempDestination	400
6.54.1.3	~ActiveMQTempDestination	400
6.54.2	Member Function Documentation	400

6.54.2.1	cloneDataStructure	400
6.54.2.2	close	400
6.54.2.3	copyDataStructure	400
6.54.2.4	equals	401
6.54.2.5	getDataStructureType	401
6.54.2.6	setConnection	401
6.54.2.7	toString	401
6.54.3	Field Documentation	402
6.54.3.1	connection	402
6.54.3.2	ID_ACTIVEMQTEMPDESTINATION	402
6.55	activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller	
	Class Reference	403
6.55.1	Detailed Description	403
6.55.2	Constructor & Destructor Documentation	404
6.55.2.1	ActiveMQTempDestinationMarshaller	404
6.55.2.2	~ActiveMQTempDestinationMarshaller	404
6.55.3	Member Function Documentation	404
6.55.3.1	looseMarshal	404
6.55.3.2	looseUnmarshal	404
6.55.3.3	tightMarshal1	405
6.55.3.4	tightMarshal2	405
6.55.3.5	tightUnmarshal	406
6.56	activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller	
	Class Reference	407
6.56.1	Detailed Description	407
6.56.2	Constructor & Destructor Documentation	408
6.56.2.1	ActiveMQTempDestinationMarshaller	408
6.56.2.2	~ActiveMQTempDestinationMarshaller	408
6.56.3	Member Function Documentation	408
6.56.3.1	looseMarshal	408
6.56.3.2	looseUnmarshal	408
6.56.3.3	tightMarshal1	409
6.56.3.4	tightMarshal2	409
6.56.3.5	tightUnmarshal	410
6.57	activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller	
	Class Reference	411
6.57.1	Detailed Description	411

6.57.2	Constructor & Destructor Documentation	412
6.57.2.1	ActiveMQTempDestinationMarshaller	412
6.57.2.2	~ActiveMQTempDestinationMarshaller	412
6.57.3	Member Function Documentation	412
6.57.3.1	looseMarshal	412
6.57.3.2	looseUnmarshal	412
6.57.3.3	tightMarshal1	413
6.57.3.4	tightMarshal2	413
6.57.3.5	tightUnmarshal	414
6.58	activemq::commands::ActiveMQTempQueue Class Reference	415
6.58.1	Constructor & Destructor Documentation	416
6.58.1.1	ActiveMQTempQueue	416
6.58.1.2	ActiveMQTempQueue	416
6.58.1.3	~ActiveMQTempQueue	416
6.58.2	Member Function Documentation	416
6.58.2.1	clone	416
6.58.2.2	cloneDataStructure	416
6.58.2.3	copy	416
6.58.2.4	copyDataStructure	417
6.58.2.5	destroy	417
6.58.2.6	equals	417
6.58.2.7	getCMSDestination	417
6.58.2.8	getCMSProperties	417
6.58.2.9	getDataStructureType	418
6.58.2.10	getDestinationType	418
6.58.2.11	getQueueName	418
6.58.2.12	toString	418
6.58.3	Field Documentation	419
6.58.3.1	ID_ACTIVEMQTEMPQUEUE	419
6.59	activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller Class Reference	420
6.59.1	Detailed Description	420
6.59.2	Constructor & Destructor Documentation	421
6.59.2.1	ActiveMQTempQueueMarshaller	421
6.59.2.2	~ActiveMQTempQueueMarshaller	421
6.59.3	Member Function Documentation	421
6.59.3.1	createObject	421

6.59.3.2	getDataStructureType	421
6.59.3.3	looseMarshal	421
6.59.3.4	looseUnmarshal	422
6.59.3.5	tightMarshal1	422
6.59.3.6	tightMarshal2	423
6.59.3.7	tightUnmarshal	423
6.60	activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller	
	Class Reference	424
6.60.1	Detailed Description	424
6.60.2	Constructor & Destructor Documentation	425
6.60.2.1	ActiveMQTempQueueMarshaller	425
6.60.2.2	~ActiveMQTempQueueMarshaller	425
6.60.3	Member Function Documentation	425
6.60.3.1	createObject	425
6.60.3.2	getDataStructureType	425
6.60.3.3	looseMarshal	425
6.60.3.4	looseUnmarshal	426
6.60.3.5	tightMarshal1	426
6.60.3.6	tightMarshal2	427
6.60.3.7	tightUnmarshal	427
6.61	activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller	
	Class Reference	428
6.61.1	Detailed Description	428
6.61.2	Constructor & Destructor Documentation	429
6.61.2.1	ActiveMQTempQueueMarshaller	429
6.61.2.2	~ActiveMQTempQueueMarshaller	429
6.61.3	Member Function Documentation	429
6.61.3.1	createObject	429
6.61.3.2	getDataStructureType	429
6.61.3.3	looseMarshal	429
6.61.3.4	looseUnmarshal	430
6.61.3.5	tightMarshal1	430
6.61.3.6	tightMarshal2	431
6.61.3.7	tightUnmarshal	431
6.62	activemq::commands::ActiveMQTempTopic Class Reference	432
6.62.1	Constructor & Destructor Documentation	433
6.62.1.1	ActiveMQTempTopic	433

6.62.1.2	ActiveMQTempTopic	433
6.62.1.3	~ActiveMQTempTopic	433
6.62.2	Member Function Documentation	433
6.62.2.1	clone	433
6.62.2.2	cloneDataStructure	433
6.62.2.3	copy	433
6.62.2.4	copyDataStructure	434
6.62.2.5	destroy	434
6.62.2.6	equals	434
6.62.2.7	getCMSDestination	434
6.62.2.8	getCMSProperties	434
6.62.2.9	getDataStructureType	435
6.62.2.10	getDestinationType	435
6.62.2.11	getTopicName	435
6.62.2.12	toString	435
6.62.3	Field Documentation	436
6.62.3.1	ID_ACTIVEMQTEMPTOPIC	436
6.63	activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller	
	Class Reference	437
6.63.1	Detailed Description	437
6.63.2	Constructor & Destructor Documentation	438
6.63.2.1	ActiveMQTempTopicMarshaller	438
6.63.2.2	~ActiveMQTempTopicMarshaller	438
6.63.3	Member Function Documentation	438
6.63.3.1	createObject	438
6.63.3.2	getDataStructureType	438
6.63.3.3	looseMarshal	438
6.63.3.4	looseUnmarshal	439
6.63.3.5	tightMarshal1	439
6.63.3.6	tightMarshal2	440
6.63.3.7	tightUnmarshal	440
6.64	activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller	
	Class Reference	441
6.64.1	Detailed Description	441
6.64.2	Constructor & Destructor Documentation	442
6.64.2.1	ActiveMQTempTopicMarshaller	442
6.64.2.2	~ActiveMQTempTopicMarshaller	442

6.64.3	Member Function Documentation	442
6.64.3.1	createObject	442
6.64.3.2	getDataStructureType	442
6.64.3.3	looseMarshal	442
6.64.3.4	looseUnmarshal	443
6.64.3.5	tightMarshal1	443
6.64.3.6	tightMarshal2	444
6.64.3.7	tightUnmarshal	444
6.65	activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller Class Reference	445
6.65.1	Detailed Description	445
6.65.2	Constructor & Destructor Documentation	446
6.65.2.1	ActiveMQTempTopicMarshaller	446
6.65.2.2	~ActiveMQTempTopicMarshaller	446
6.65.3	Member Function Documentation	446
6.65.3.1	createObject	446
6.65.3.2	getDataStructureType	446
6.65.3.3	looseMarshal	446
6.65.3.4	looseUnmarshal	447
6.65.3.5	tightMarshal1	447
6.65.3.6	tightMarshal2	448
6.65.3.7	tightUnmarshal	448
6.66	activemq::commands::ActiveMQTextMessage Class Reference	449
6.66.1	Constructor & Destructor Documentation	450
6.66.1.1	ActiveMQTextMessage	450
6.66.1.2	~ActiveMQTextMessage	450
6.66.2	Member Function Documentation	450
6.66.2.1	clone	450
6.66.2.2	cloneDataStructure	450
6.66.2.3	copyDataStructure	450
6.66.2.4	equals	450
6.66.2.5	getDataStructureType	451
6.66.2.6	getText	451
6.66.2.7	setText	451
6.66.2.8	setText	451
6.66.2.9	toString	452
6.66.3	Field Documentation	452

6.66.3.1	ID_ACTIVEMQTEXTMESSAGE	452
6.67	activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller	
	Class Reference	453
6.67.1	Detailed Description	453
6.67.2	Constructor & Destructor Documentation	454
6.67.2.1	ActiveMQTextMessageMarshaller	454
6.67.2.2	~ActiveMQTextMessageMarshaller	454
6.67.3	Member Function Documentation	454
6.67.3.1	createObject	454
6.67.3.2	getDataStructureType	454
6.67.3.3	looseMarshal	454
6.67.3.4	looseUnmarshal	455
6.67.3.5	tightMarshal1	455
6.67.3.6	tightMarshal2	456
6.67.3.7	tightUnmarshal	456
6.68	activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller	
	Class Reference	457
6.68.1	Detailed Description	457
6.68.2	Constructor & Destructor Documentation	458
6.68.2.1	ActiveMQTextMessageMarshaller	458
6.68.2.2	~ActiveMQTextMessageMarshaller	458
6.68.3	Member Function Documentation	458
6.68.3.1	createObject	458
6.68.3.2	getDataStructureType	458
6.68.3.3	looseMarshal	458
6.68.3.4	looseUnmarshal	459
6.68.3.5	tightMarshal1	459
6.68.3.6	tightMarshal2	460
6.68.3.7	tightUnmarshal	460
6.69	activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller	
	Class Reference	461
6.69.1	Detailed Description	461
6.69.2	Constructor & Destructor Documentation	462
6.69.2.1	ActiveMQTextMessageMarshaller	462
6.69.2.2	~ActiveMQTextMessageMarshaller	462
6.69.3	Member Function Documentation	462
6.69.3.1	createObject	462

6.69.3.2	getDataStructureType	462
6.69.3.3	looseMarshal	462
6.69.3.4	looseUnmarshal	463
6.69.3.5	tightMarshal1	463
6.69.3.6	tightMarshal2	464
6.69.3.7	tightUnmarshal	464
6.70	activemq::commands::ActiveMQTopic Class Reference	465
6.70.1	Constructor & Destructor Documentation	466
6.70.1.1	ActiveMQTopic	466
6.70.1.2	ActiveMQTopic	466
6.70.1.3	~ActiveMQTopic	466
6.70.2	Member Function Documentation	466
6.70.2.1	clone	466
6.70.2.2	cloneDataStructure	466
6.70.2.3	copy	466
6.70.2.4	copyDataStructure	466
6.70.2.5	equals	467
6.70.2.6	getCMSDestination	467
6.70.2.7	getCMSProperties	467
6.70.2.8	getDataStructureType	467
6.70.2.9	getDestinationType	467
6.70.2.10	getTopicName	468
6.70.2.11	toString	468
6.70.3	Field Documentation	468
6.70.3.1	ID_ACTIVEMQTOPIC	468
6.71	activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller Class Reference	469
6.71.1	Detailed Description	469
6.71.2	Constructor & Destructor Documentation	470
6.71.2.1	ActiveMQTopicMarshaller	470
6.71.2.2	~ActiveMQTopicMarshaller	470
6.71.3	Member Function Documentation	470
6.71.3.1	createObject	470
6.71.3.2	getDataStructureType	470
6.71.3.3	looseMarshal	470
6.71.3.4	looseUnmarshal	471
6.71.3.5	tightMarshal1	471

6.71.3.6	tightMarshal2	472
6.71.3.7	tightUnmarshal	472
6.72	activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller Class Reference	473
6.72.1	Detailed Description	473
6.72.2	Constructor & Destructor Documentation	474
6.72.2.1	ActiveMQTopicMarshaller	474
6.72.2.2	~ActiveMQTopicMarshaller	474
6.72.3	Member Function Documentation	474
6.72.3.1	createObject	474
6.72.3.2	getDataStructureType	474
6.72.3.3	looseMarshal	474
6.72.3.4	looseUnmarshal	475
6.72.3.5	tightMarshal1	475
6.72.3.6	tightMarshal2	476
6.72.3.7	tightUnmarshal	476
6.73	activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller Class Reference	477
6.73.1	Detailed Description	477
6.73.2	Constructor & Destructor Documentation	478
6.73.2.1	ActiveMQTopicMarshaller	478
6.73.2.2	~ActiveMQTopicMarshaller	478
6.73.3	Member Function Documentation	478
6.73.3.1	createObject	478
6.73.3.2	getDataStructureType	478
6.73.3.3	looseMarshal	478
6.73.3.4	looseUnmarshal	479
6.73.3.5	tightMarshal1	479
6.73.3.6	tightMarshal2	480
6.73.3.7	tightUnmarshal	480
6.74	activemq::core::ActiveMQTransactionContext Class Reference	481
6.74.1	Detailed Description	481
6.74.2	Constructor & Destructor Documentation	482
6.74.2.1	ActiveMQTransactionContext	482
6.74.2.2	~ActiveMQTransactionContext	482
6.74.3	Member Function Documentation	482
6.74.3.1	addSynchronization	482

6.74.3.2	begin	482
6.74.3.3	commit	482
6.74.3.4	getMaximumRedeliveries	483
6.74.3.5	getRedeliveryDelay	483
6.74.3.6	getTransactionId	483
6.74.3.7	isInTransaction	483
6.74.3.8	removeSynchronization	483
6.74.3.9	rollback	483
6.75	decaf::lang::Appendable Class Reference	484
6.75.1	Constructor & Destructor Documentation	484
6.75.1.1	~Appendable	484
6.75.2	Member Function Documentation	484
6.75.2.1	append	484
6.75.2.2	append	485
6.75.2.3	append	485
6.76	decaf::internal::AprPool Class Reference	486
6.76.1	Detailed Description	486
6.76.2	Constructor & Destructor Documentation	486
6.76.2.1	AprPool	486
6.76.2.2	~AprPool	486
6.76.3	Member Function Documentation	486
6.76.3.1	cleanup	486
6.76.3.2	getAprPool	486
6.76.3.3	getGlobalPool	487
6.77	decaf::util::concurrent::atomic::AtomicBoolean Class Reference	488
6.77.1	Detailed Description	488
6.77.2	Constructor & Destructor Documentation	488
6.77.2.1	AtomicBoolean	488
6.77.2.2	AtomicBoolean	488
6.77.2.3	~AtomicBoolean	489
6.77.3	Member Function Documentation	489
6.77.3.1	compareAndSet	489
6.77.3.2	get	489
6.77.3.3	getAndSet	489
6.77.3.4	set	489
6.77.3.5	toString	490

6.78	decaf::util::concurrent::atomic::AtomicInteger Class Reference	491
6.78.1	Detailed Description	492
6.78.2	Constructor & Destructor Documentation	492
6.78.2.1	AtomicInteger	492
6.78.2.2	AtomicInteger	492
6.78.2.3	~AtomicInteger	492
6.78.3	Member Function Documentation	492
6.78.3.1	addAndGet	492
6.78.3.2	compareAndSet	493
6.78.3.3	decrementAndGet	493
6.78.3.4	doubleValue	493
6.78.3.5	float Value	493
6.78.3.6	get	494
6.78.3.7	getAndAdd	494
6.78.3.8	getAndDecrement	494
6.78.3.9	getAndIncrement	494
6.78.3.10	getAndSet	494
6.78.3.11	incrementAndGet	495
6.78.3.12	int Value	495
6.78.3.13	long Value	495
6.78.3.14	set	495
6.78.3.15	toString	495
6.79	decaf::lang::AtomicRefCounter Class Reference	496
6.79.1	Constructor & Destructor Documentation	496
6.79.1.1	AtomicRefCounter	496
6.79.1.2	AtomicRefCounter	496
6.79.2	Member Function Documentation	496
6.79.2.1	release	496
6.79.2.2	swap	496
6.80	decaf::util::concurrent::atomic::AtomicReference< T > Class Template Reference	498
6.80.1	Detailed Description	498
6.80.2	Constructor & Destructor Documentation	499
6.80.2.1	AtomicReference	499
6.80.2.2	AtomicReference	499
6.80.2.3	~AtomicReference	499
6.80.3	Member Function Documentation	499

6.80.3.1	compareAndSet	499
6.80.3.2	get	499
6.80.3.3	getAndSet	499
6.80.3.4	set	500
6.80.3.5	toString	500
6.81	activemq::transport::failover::BackupTransport Class Reference	501
6.81.1	Constructor & Destructor Documentation	501
6.81.1.1	BackupTransport	501
6.81.1.2	~BackupTransport	501
6.81.2	Member Function Documentation	501
6.81.2.1	getTransport	501
6.81.2.2	getUri	502
6.81.2.3	isClosed	502
6.81.2.4	onException	502
6.81.2.5	setClosed	502
6.81.2.6	setTransport	502
6.81.2.7	setUri	503
6.82	activemq::transport::failover::BackupTransportPool Class Reference	504
6.82.1	Constructor & Destructor Documentation	505
6.82.1.1	BackupTransportPool	505
6.82.1.2	BackupTransportPool	505
6.82.1.3	~BackupTransportPool	505
6.82.2	Member Function Documentation	505
6.82.2.1	getBackup	505
6.82.2.2	getBackupPoolSize	505
6.82.2.3	isEnabled	505
6.82.2.4	isPending	505
6.82.2.5	iterate	506
6.82.2.6	setBackupPoolSize	506
6.82.2.7	setEnabled	506
6.82.3	Friends And Related Function Documentation	506
6.82.3.1	BackupTransport	506
6.83	activemq::commands::BaseCommand Class Reference	507
6.83.1	Constructor & Destructor Documentation	508
6.83.1.1	BaseCommand	508
6.83.1.2	~BaseCommand	508

6.83.2	Member Function Documentation	508
6.83.2.1	copyDataStructure	508
6.83.2.2	equals	508
6.83.2.3	getCommandId	509
6.83.2.4	isBrokerInfo	509
6.83.2.5	isConnectionInfo	510
6.83.2.6	isConsumerInfo	510
6.83.2.7	isKeepAliveInfo	510
6.83.2.8	isMessage	510
6.83.2.9	isMessageAck	510
6.83.2.10	isMessageDispatch	510
6.83.2.11	isMessageDispatchNotification	510
6.83.2.12	isProducerAck	511
6.83.2.13	isProducerInfo	511
6.83.2.14	isRemoveInfo	511
6.83.2.15	isRemoveSubscriptionInfo	511
6.83.2.16	isResponse	511
6.83.2.17	isResponseRequired	511
6.83.2.18	isShutdownInfo	511
6.83.2.19	isTransactionInfo	512
6.83.2.20	isWireFormatInfo	512
6.83.2.21	setCommandId	512
6.83.2.22	setResponseRequired	512
6.83.2.23	toString	512
6.84	activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller Class Reference	514
6.84.1	Detailed Description	514
6.84.2	Constructor & Destructor Documentation	515
6.84.2.1	BaseCommandMarshaller	515
6.84.2.2	~BaseCommandMarshaller	515
6.84.3	Member Function Documentation	515
6.84.3.1	looseMarshal	515
6.84.3.2	looseUnmarshal	516
6.84.3.3	tightMarshal1	517
6.84.3.4	tightMarshal2	518
6.84.3.5	tightUnmarshal	519

6.85	activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller Class Reference	521
6.85.1	Detailed Description	521
6.85.2	Constructor & Destructor Documentation	522
6.85.2.1	BaseCommandMarshaller	522
6.85.2.2	~BaseCommandMarshaller	522
6.85.3	Member Function Documentation	522
6.85.3.1	looseMarshal	522
6.85.3.2	looseUnmarshal	523
6.85.3.3	tightMarshal1	524
6.85.3.4	tightMarshal2	525
6.85.3.5	tightUnmarshal	526
6.86	activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller Class Reference	528
6.86.1	Detailed Description	528
6.86.2	Constructor & Destructor Documentation	529
6.86.2.1	BaseCommandMarshaller	529
6.86.2.2	~BaseCommandMarshaller	529
6.86.3	Member Function Documentation	529
6.86.3.1	looseMarshal	529
6.86.3.2	looseUnmarshal	530
6.86.3.3	tightMarshal1	531
6.86.3.4	tightMarshal2	532
6.86.3.5	tightUnmarshal	533
6.87	activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller Class Reference	535
6.87.1	Detailed Description	540
6.87.2	Constructor & Destructor Documentation	540
6.87.2.1	~BaseDataStreamMarshaller	540
6.87.3	Member Function Documentation	540
6.87.3.1	looseMarshal	540
6.87.3.2	looseMarshalBrokerError	541
6.87.3.3	looseMarshalCachedObject	541
6.87.3.4	looseMarshalLong	541
6.87.3.5	looseMarshalNestedObject	542
6.87.3.6	looseMarshalObjectArray	542
6.87.3.7	looseMarshalString	543

6.87.3.8	looseUnmarshal	543
6.87.3.9	looseUnmarshalBrokerError	543
6.87.3.10	looseUnmarshalByteArray	544
6.87.3.11	looseUnmarshalCachedObject	544
6.87.3.12	looseUnmarshalConstByteArray	544
6.87.3.13	looseUnmarshalLong	545
6.87.3.14	looseUnmarshalNestedObject	545
6.87.3.15	looseUnmarshalString	545
6.87.3.16	readAsciiString	546
6.87.3.17	tightMarshal1	546
6.87.3.18	tightMarshal2	546
6.87.3.19	tightMarshalBrokerError1	547
6.87.3.20	tightMarshalBrokerError2	547
6.87.3.21	tightMarshalCachedObject1	548
6.87.3.22	tightMarshalCachedObject2	548
6.87.3.23	tightMarshalLong1	548
6.87.3.24	tightMarshalLong2	549
6.87.3.25	tightMarshalNestedObject1	549
6.87.3.26	tightMarshalNestedObject2	550
6.87.3.27	tightMarshalObjectArray1	550
6.87.3.28	tightMarshalObjectArray2	550
6.87.3.29	tightMarshalString1	551
6.87.3.30	tightMarshalString2	551
6.87.3.31	tightUnmarshal	552
6.87.3.32	tightUnmarshalBrokerError	552
6.87.3.33	tightUnmarshalByteArray	552
6.87.3.34	tightUnmarshalCachedObject	553
6.87.3.35	tightUnmarshalConstByteArray	553
6.87.3.36	tightUnmarshalLong	554
6.87.3.37	tightUnmarshalNestedObject	554
6.87.3.38	tightUnmarshalString	554
6.87.3.39	toHexFromBytes	555
6.87.3.40	toString	555
6.87.3.41	toString	555
6.87.3.42	toString	556
6.88	activemq::commands::BaseDataStructure Class Reference	557

6.88.1	Constructor & Destructor Documentation	558
6.88.1.1	~BaseDataStructure	558
6.88.2	Member Function Documentation	558
6.88.2.1	afterMarshal	558
6.88.2.2	afterUnmarshal	558
6.88.2.3	beforeMarshal	558
6.88.2.4	beforeUnmarshal	558
6.88.2.5	copyDataStructure	559
6.88.2.6	equals	559
6.88.2.7	getMarshaledForm	559
6.88.2.8	isMarshalAware	559
6.88.2.9	setMarshaledForm	560
6.88.2.10	toString	560
6.89	binary_function Class Reference	562
6.90	decaf::net::BindException Class Reference	563
6.90.1	Constructor & Destructor Documentation	563
6.90.1.1	BindException	563
6.90.1.2	BindException	563
6.90.1.3	BindException	564
6.90.1.4	BindException	564
6.90.1.5	BindException	564
6.90.1.6	BindException	564
6.90.1.7	~BindException	565
6.90.2	Member Function Documentation	565
6.90.2.1	clone	565
6.91	decaf::io::BlockingByteArrayInputStream Class Reference	566
6.91.1	Detailed Description	567
6.91.2	Constructor & Destructor Documentation	567
6.91.2.1	BlockingByteArrayInputStream	567
6.91.2.2	BlockingByteArrayInputStream	567
6.91.2.3	~BlockingByteArrayInputStream	567
6.91.3	Member Function Documentation	568
6.91.3.1	available	568
6.91.3.2	close	568
6.91.3.3	lock	568
6.91.3.4	mark	568

6.91.3.5	markSupported	569
6.91.3.6	notify	569
6.91.3.7	notifyAll	569
6.91.3.8	read	569
6.91.3.9	read	570
6.91.3.10	reset	570
6.91.3.11	setByteArray	570
6.91.3.12	skip	571
6.91.3.13	unlock	571
6.91.3.14	wait	571
6.91.3.15	wait	572
6.92	decaf::lang::Boolean Class Reference	573
6.92.1	Constructor & Destructor Documentation	574
6.92.1.1	Boolean	574
6.92.1.2	Boolean	574
6.92.1.3	~Boolean	574
6.92.2	Member Function Documentation	574
6.92.2.1	booleanValue	574
6.92.2.2	compareTo	574
6.92.2.3	compareTo	575
6.92.2.4	equals	575
6.92.2.5	equals	575
6.92.2.6	operator<	575
6.92.2.7	operator<	575
6.92.2.8	operator==	576
6.92.2.9	operator==	576
6.92.2.10	parseBoolean	576
6.92.2.11	toString	576
6.92.2.12	toString	577
6.92.2.13	valueOf	577
6.92.2.14	valueOf	577
6.92.3	Field Documentation	577
6.92.3.1	_FALSE	577
6.92.3.2	_TRUE	577
6.93	activemq::commands::BooleanExpression Class Reference	578
6.93.1	Constructor & Destructor Documentation	578

6.93.1.1	BooleanExpression	578
6.93.1.2	~BooleanExpression	578
6.93.2	Member Function Documentation	578
6.93.2.1	cloneDataStructure	578
6.93.2.2	copyDataStructure	579
6.93.2.3	equals	579
6.93.2.4	toString	579
6.94	activemq::wireformat::openwire::utils::BooleanStream Class Reference	580
6.94.1	Detailed Description	580
6.94.2	Constructor & Destructor Documentation	581
6.94.2.1	BooleanStream	581
6.94.2.2	~BooleanStream	581
6.94.3	Member Function Documentation	581
6.94.3.1	clear	581
6.94.3.2	marshal	581
6.94.3.3	marshal	581
6.94.3.4	marshalledSize	581
6.94.3.5	readBoolean	581
6.94.3.6	unmarshal	582
6.94.3.7	writeBoolean	582
6.95	decaf::util::concurrent::BrokenBarrierException Class Reference	583
6.95.1	Constructor & Destructor Documentation	583
6.95.1.1	BrokenBarrierException	583
6.95.1.2	BrokenBarrierException	583
6.95.1.3	BrokenBarrierException	584
6.95.1.4	BrokenBarrierException	584
6.95.1.5	BrokenBarrierException	584
6.95.1.6	BrokenBarrierException	584
6.95.1.7	~BrokenBarrierException	585
6.95.2	Member Function Documentation	585
6.95.2.1	clone	585
6.96	activemq::commands::BrokerError Class Reference	586
6.96.1	Detailed Description	587
6.96.2	Constructor & Destructor Documentation	587
6.96.2.1	BrokerError	587
6.96.2.2	~BrokerError	587

6.96.3	Member Function Documentation	587
6.96.3.1	cloneDataStructure	587
6.96.3.2	copyDataStructure	587
6.96.3.3	getCause	588
6.96.3.4	getDataStructureType	588
6.96.3.5	getExceptionClass	588
6.96.3.6	getMessage	588
6.96.3.7	getStackTraceElements	588
6.96.3.8	setCause	589
6.96.3.9	setExceptionClass	589
6.96.3.10	setMessage	589
6.96.3.11	setStackTraceElements	589
6.96.3.12	visit	589
6.97	activemq::exceptions::BrokerException Class Reference	590
6.97.1	Constructor & Destructor Documentation	590
6.97.1.1	BrokerException	590
6.97.1.2	BrokerException	590
6.97.1.3	BrokerException	590
6.97.1.4	BrokerException	590
6.97.1.5	BrokerException	590
6.97.1.6	~BrokerException	590
6.97.2	Member Function Documentation	590
6.97.2.1	clone	590
6.98	activemq::commands::BrokerId Class Reference	592
6.98.1	Member Typedef Documentation	593
6.98.1.1	COMPARATOR	593
6.98.2	Constructor & Destructor Documentation	593
6.98.2.1	BrokerId	593
6.98.2.2	BrokerId	593
6.98.2.3	~BrokerId	593
6.98.3	Member Function Documentation	593
6.98.3.1	cloneDataStructure	593
6.98.3.2	compareTo	593
6.98.3.3	copyDataStructure	593
6.98.3.4	equals	593
6.98.3.5	equals	593

6.98.3.6	getDataStructureType	594
6.98.3.7	getValue	594
6.98.3.8	getValue	594
6.98.3.9	operator<	594
6.98.3.10	operator=	594
6.98.3.11	operator==	594
6.98.3.12	setValue	594
6.98.3.13	toString	594
6.98.4	Field Documentation	594
6.98.4.1	ID_BROKERID	594
6.98.4.2	value	594
6.99	activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller Class Reference .	595
6.99.1	Detailed Description	595
6.99.2	Constructor & Destructor Documentation	596
6.99.2.1	BrokerIdMarshaller	596
6.99.2.2	~BrokerIdMarshaller	596
6.99.3	Member Function Documentation	596
6.99.3.1	createObject	596
6.99.3.2	getDataStructureType	596
6.99.3.3	looseMarshal	596
6.99.3.4	looseUnmarshal	597
6.99.3.5	tightMarshal1	597
6.99.3.6	tightMarshal2	598
6.99.3.7	tightUnmarshal	598
6.100	activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller Class Reference .	599
6.100.1	Detailed Description	599
6.100.2	Constructor & Destructor Documentation	600
6.100.2.1	BrokerIdMarshaller	600
6.100.2.2	~BrokerIdMarshaller	600
6.100.3	Member Function Documentation	600
6.100.3.1	createObject	600
6.100.3.2	getDataStructureType	600
6.100.3.3	looseMarshal	600
6.100.3.4	looseUnmarshal	601
6.100.3.5	tightMarshal1	601
6.100.3.6	tightMarshal2	602

6.100.3.7 tightUnmarshal	602
6.101activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller Class Reference	603
6.101.1 Detailed Description	603
6.101.2 Constructor & Destructor Documentation	604
6.101.2.1 BrokerIdMarshaller	604
6.101.2.2 ~BrokerIdMarshaller	604
6.101.3 Member Function Documentation	604
6.101.3.1 createObject	604
6.101.3.2 getDataStructureType	604
6.101.3.3 looseMarshal	604
6.101.3.4 looseUnmarshal	605
6.101.3.5 tightMarshal1	605
6.101.3.6 tightMarshal2	606
6.101.3.7 tightUnmarshal	606
6.102activemq::commands::BrokerInfo Class Reference	607
6.102.1 Constructor & Destructor Documentation	609
6.102.1.1 BrokerInfo	609
6.102.1.2 BrokerInfo	609
6.102.1.3 ~BrokerInfo	609
6.102.2 Member Function Documentation	609
6.102.2.1 cloneDataStructure	609
6.102.2.2 copyDataStructure	609
6.102.2.3 equals	609
6.102.2.4 getBrokerId	610
6.102.2.5 getBrokerId	610
6.102.2.6 getBrokerName	610
6.102.2.7 getBrokerName	610
6.102.2.8 getBrokerUploadUrl	610
6.102.2.9 getBrokerUploadUrl	610
6.102.2.10getBrokerURL	610
6.102.2.11getBrokerURL	610
6.102.2.12getConnectionId	610
6.102.2.13getDataStructureType	610
6.102.2.14getNetworkProperties	611
6.102.2.15getNetworkProperties	611
6.102.2.16getPeerBrokerInfos	611

6.102.2.17	getPeerBrokerInfos	611
6.102.2.18	sBrokerInfo	611
6.102.2.19	sDuplexConnection	612
6.102.2.20	sFaultTolerantConfiguration	612
6.102.2.21	isMasterBroker	612
6.102.2.22	sNetworkConnection	612
6.102.2.23	sSlaveBroker	612
6.102.2.24	perator=	612
6.102.2.25	setBrokerId	612
6.102.2.26	setBrokerName	612
6.102.2.27	setBrokerUploadUrl	612
6.102.2.28	setBrokerURL	612
6.102.2.29	setConnectionId	612
6.102.2.30	setDuplexConnection	612
6.102.2.31	setFaultTolerantConfiguration	612
6.102.2.32	setMasterBroker	612
6.102.2.33	setNetworkConnection	612
6.102.2.34	setNetworkProperties	612
6.102.2.35	setPeerBrokerInfos	612
6.102.2.36	setSlaveBroker	612
6.102.2.37	toString	612
6.102.2.38	visit	613
6.102.3	Field Documentation	614
6.102.3.1	brokerId	614
6.102.3.2	brokerName	614
6.102.3.3	brokerUploadUrl	614
6.102.3.4	brokerURL	614
6.102.3.5	connectionId	614
6.102.3.6	duplexConnection	614
6.102.3.7	faultTolerantConfiguration	614
6.102.3.8	ID_BROKERINFO	614
6.102.3.9	masterBroker	614
6.102.3.10	networkConnection	614
6.102.3.11	networkProperties	614
6.102.3.12	peerBrokerInfos	614
6.102.3.13	slaveBroker	614

6.103activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller Class Reference	615
6.103.1 Detailed Description	615
6.103.2 Constructor & Destructor Documentation	616
6.103.2.1 BrokerInfoMarshaller	616
6.103.2.2 ~BrokerInfoMarshaller	616
6.103.3 Member Function Documentation	616
6.103.3.1 createObject	616
6.103.3.2 getDataStructureType	616
6.103.3.3 looseMarshal	616
6.103.3.4 looseUnmarshal	617
6.103.3.5 tightMarshal1	617
6.103.3.6 tightMarshal2	618
6.103.3.7 tightUnmarshal	618
6.104activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller Class Reference	619
6.104.1 Detailed Description	619
6.104.2 Constructor & Destructor Documentation	620
6.104.2.1 BrokerInfoMarshaller	620
6.104.2.2 ~BrokerInfoMarshaller	620
6.104.3 Member Function Documentation	620
6.104.3.1 createObject	620
6.104.3.2 getDataStructureType	620
6.104.3.3 looseMarshal	620
6.104.3.4 looseUnmarshal	621
6.104.3.5 tightMarshal1	621
6.104.3.6 tightMarshal2	622
6.104.3.7 tightUnmarshal	622
6.105activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller Class Reference	623
6.105.1 Detailed Description	623
6.105.2 Constructor & Destructor Documentation	624
6.105.2.1 BrokerInfoMarshaller	624
6.105.2.2 ~BrokerInfoMarshaller	624
6.105.3 Member Function Documentation	624
6.105.3.1 createObject	624
6.105.3.2 getDataStructureType	624
6.105.3.3 looseMarshal	624
6.105.3.4 looseUnmarshal	625

6.105.3.5 tightMarshal1	625
6.105.3.6 tightMarshal2	626
6.105.3.7 tightUnmarshal	626
6.106decaf::nio::Buffer Class Reference	627
6.106.1 Detailed Description	628
6.106.2 Constructor & Destructor Documentation	629
6.106.2.1 Buffer	629
6.106.2.2 Buffer	629
6.106.2.3 ~Buffer	629
6.106.3 Member Function Documentation	629
6.106.3.1 capacity	629
6.106.3.2 clear	629
6.106.3.3 flip	630
6.106.3.4 hasRemaining	630
6.106.3.5 isReadOnly	630
6.106.3.6 limit	630
6.106.3.7 limit	631
6.106.3.8 mark	631
6.106.3.9 position	631
6.106.3.10position	631
6.106.3.11remaining	632
6.106.3.12reset	632
6.106.3.13rewind	632
6.106.4 Field Documentation	632
6.106.4.1 _capacity	632
6.106.4.2 _limit	632
6.106.4.3 _mark	632
6.106.4.4 _markSet	632
6.106.4.5 _position	632
6.107decaf::io::BufferedInputStream Class Reference	633
6.107.1 Detailed Description	634
6.107.2 Constructor & Destructor Documentation	634
6.107.2.1 BufferedInputStream	634
6.107.2.2 BufferedInputStream	634
6.107.2.3 ~BufferedInputStream	634
6.107.3 Member Function Documentation	634

6.107.3.1 available	634
6.107.3.2 close	635
6.107.3.3 mark	635
6.107.3.4 markSupported	635
6.107.3.5 read	635
6.107.3.6 read	636
6.107.3.7 reset	636
6.107.3.8 skip	636
6.108decaf::io::BufferedOutputStream Class Reference	638
6.108.1 Detailed Description	638
6.108.2 Constructor & Destructor Documentation	638
6.108.2.1 BufferedOutputStream	638
6.108.2.2 BufferedOutputStream	639
6.108.2.3 ~BufferedOutputStream	639
6.108.3 Member Function Documentation	639
6.108.3.1 close	639
6.108.3.2 flush	639
6.108.3.3 write	639
6.108.3.4 write	640
6.108.3.5 write	640
6.109decaf::net::BufferedSocket Class Reference	641
6.109.1 Detailed Description	642
6.109.2 Constructor & Destructor Documentation	642
6.109.2.1 BufferedSocket	642
6.109.2.2 ~BufferedSocket	642
6.109.3 Member Function Documentation	642
6.109.3.1 close	642
6.109.3.2 connect	643
6.109.3.3 getInputStream	643
6.109.3.4 getKeepAlive	643
6.109.3.5 getOutputStream	643
6.109.3.6 getReceiveBufferSize	644
6.109.3.7 getReuseAddress	644
6.109.3.8 getSendBufferSize	644
6.109.3.9 getSoLinger	644
6.109.3.10getSoTimeout	645

6.109.3.1	isConnected	645
6.109.3.12	setKeepAlive	645
6.109.3.13	setReceiveBufferSize	646
6.109.3.14	setReuseAddress	646
6.109.3.15	setSendBufferSize	646
6.109.3.16	setSoLinger	646
6.109.3.17	setSoTimeout	647
6.110	decaf::internal::nio::BufferFactory Class Reference	648
6.110.1	Detailed Description	649
6.110.2	Constructor & Destructor Documentation	650
6.110.2.1	~BufferFactory	650
6.110.3	Member Function Documentation	650
6.110.3.1	createByteBuffer	650
6.110.3.2	createByteBuffer	650
6.110.3.3	createByteBuffer	650
6.110.3.4	createCharBuffer	651
6.110.3.5	createCharBuffer	651
6.110.3.6	createCharBuffer	651
6.110.3.7	createDoubleBuffer	652
6.110.3.8	createDoubleBuffer	652
6.110.3.9	createDoubleBuffer	652
6.110.3.10	createFloatBuffer	653
6.110.3.11	createFloatBuffer	653
6.110.3.12	createFloatBuffer	653
6.110.3.13	createIntBuffer	654
6.110.3.14	createIntBuffer	654
6.110.3.15	createIntBuffer	654
6.110.3.16	createLongBuffer	655
6.110.3.17	createLongBuffer	655
6.110.3.18	createLongBuffer	655
6.110.3.19	createShortBuffer	656
6.110.3.20	createShortBuffer	656
6.110.3.21	createShortBuffer	656
6.111	decaf::nio::BufferOverflowException Class Reference	658
6.111.1	Constructor & Destructor Documentation	658
6.111.1.1	BufferOverflowException	658

6.111.1.2 BufferOverflowException	658
6.111.1.3 BufferOverflowException	659
6.111.1.4 BufferOverflowException	659
6.111.1.5 BufferOverflowException	659
6.111.1.6 BufferOverflowException	659
6.111.1.7 ~BufferOverflowException	660
6.111.2 Member Function Documentation	660
6.111.2.1 clone	660
6.112decaf::nio::BufferUnderflowException Class Reference	661
6.112.1 Constructor & Destructor Documentation	661
6.112.1.1 BufferUnderflowException	661
6.112.1.2 BufferUnderflowException	661
6.112.1.3 BufferUnderflowException	662
6.112.1.4 BufferUnderflowException	662
6.112.1.5 BufferUnderflowException	662
6.112.1.6 BufferUnderflowException	662
6.112.1.7 ~BufferUnderflowException	663
6.112.2 Member Function Documentation	663
6.112.2.1 clone	663
6.113decaf::lang::Byte Class Reference	664
6.113.1 Constructor & Destructor Documentation	665
6.113.1.1 Byte	665
6.113.1.2 Byte	666
6.113.1.3 ~Byte	666
6.113.2 Member Function Documentation	666
6.113.2.1 byteValue	666
6.113.2.2 compareTo	666
6.113.2.3 compareTo	666
6.113.2.4 decode	667
6.113.2.5 doubleValue	667
6.113.2.6 equals	667
6.113.2.7 equals	667
6.113.2.8 float Value	668
6.113.2.9 int Value	668
6.113.2.10long Value	668
6.113.2.11operator<	668

6.113.2.12	operator<	668
6.113.2.13	operator==	669
6.113.2.14	operator==	669
6.113.2.15	parseByte	669
6.113.2.16	parseByte	670
6.113.2.17	shortValue	670
6.113.2.18	toString	670
6.113.2.19	toString	670
6.113.2.20	valueOf	671
6.113.2.21	valueOf	671
6.113.2.22	valueOf	671
6.113.3	Field Documentation	672
6.113.3.1	MAX_VALUE	672
6.113.3.2	MIN_VALUE	672
6.113.3.3	SIZE	672
6.114	decaf::internal::util::ByteArrayAdapter Class Reference	673
6.114.1	Detailed Description	677
6.114.2	Constructor & Destructor Documentation	677
6.114.2.1	ByteArrayAdapter	677
6.114.2.2	ByteArrayAdapter	677
6.114.2.3	ByteArrayAdapter	678
6.114.2.4	ByteArrayAdapter	678
6.114.2.5	ByteArrayAdapter	678
6.114.2.6	ByteArrayAdapter	679
6.114.2.7	ByteArrayAdapter	679
6.114.2.8	ByteArrayAdapter	679
6.114.2.9	~ByteArrayAdapter	680
6.114.3	Member Function Documentation	680
6.114.3.1	clear	680
6.114.3.2	get	680
6.114.3.3	getByteArray	680
6.114.3.4	getCapacity	680
6.114.3.5	getChar	680
6.114.3.6	getCharArray	681
6.114.3.7	getCharCapacity	681
6.114.3.8	getDouble	681

6.114.3.9	getDoubleArray	682
6.114.3.10	getDoubleAt	682
6.114.3.11	getDoubleCapacity	682
6.114.3.12	getFloat	682
6.114.3.13	getFloatArray	683
6.114.3.14	getFloatAt	683
6.114.3.15	getFloatCapacity	683
6.114.3.16	getInt	684
6.114.3.17	getIntArray	684
6.114.3.18	getIntAt	684
6.114.3.19	getIntCapacity	685
6.114.3.20	getLong	685
6.114.3.21	getLongArray	685
6.114.3.22	getLongAt	685
6.114.3.23	getLongCapacity	686
6.114.3.24	getShort	686
6.114.3.25	getShortArray	686
6.114.3.26	getShortAt	687
6.114.3.27	getShortCapacity	687
6.114.3.28	operator[]	687
6.114.3.29	operator[]	687
6.114.3.30	put	688
6.114.3.31	putChar	688
6.114.3.32	putDouble	688
6.114.3.33	putDoubleAt	689
6.114.3.34	putFloat	689
6.114.3.35	putFloatAt	690
6.114.3.36	putInt	690
6.114.3.37	putIntAt	690
6.114.3.38	putLong	691
6.114.3.39	putLongAt	691
6.114.3.40	putShort	692
6.114.3.41	putShortAt	692
6.114.3.42	read	692
6.114.3.43	resize	693
6.114.3.44	write	693

6.115decaf::internal::nio::ByteBuffer Class Reference	694
6.115.1 Detailed Description	697
6.115.2 Constructor & Destructor Documentation	698
6.115.2.1 ByteBuffer	698
6.115.2.2 ByteBuffer	699
6.115.2.3 ByteBuffer	699
6.115.2.4 ByteBuffer	699
6.115.2.5 ~ByteBuffer	700
6.115.3 Member Function Documentation	700
6.115.3.1 array	700
6.115.3.2 arrayOffset	700
6.115.3.3 asCharBuffer	700
6.115.3.4 asDoubleBuffer	701
6.115.3.5 asFloatBuffer	701
6.115.3.6 asIntBuffer	701
6.115.3.7 asLongBuffer	702
6.115.3.8 asReadOnlyBuffer	702
6.115.3.9 asShortBuffer	702
6.115.3.10compact	703
6.115.3.11duplicate	703
6.115.3.12get	703
6.115.3.13get	704
6.115.3.14getChar	704
6.115.3.15getChar	704
6.115.3.16getDouble	705
6.115.3.17getDouble	705
6.115.3.18getFloat	705
6.115.3.19getFloat	706
6.115.3.20getInt	706
6.115.3.21getInt	707
6.115.3.22getLong	707
6.115.3.23getLong	707
6.115.3.24getShort	708
6.115.3.25getShort	708
6.115.3.26hasArray	708
6.115.3.27isReadOnly	708

6.115.3.28	put	709
6.115.3.29	put	709
6.115.3.30	putChar	710
6.115.3.31	putChar	710
6.115.3.32	putDouble	710
6.115.3.33	putDouble	711
6.115.3.34	putFloat	711
6.115.3.35	putFloat	712
6.115.3.36	putInt	712
6.115.3.37	putInt	713
6.115.3.38	putLong	713
6.115.3.39	putLong	713
6.115.3.40	putShort	714
6.115.3.41	putShort	714
6.115.3.42	setReadOnly	715
6.115.3.43	lice	715
6.116	decaf::io::ByteArrayInputStream Class Reference	716
6.116.1	Detailed Description	717
6.116.2	Constructor & Destructor Documentation	717
6.116.2.1	ByteArrayInputStream	717
6.116.2.2	ByteArrayInputStream	717
6.116.2.3	ByteArrayInputStream	718
6.116.2.4	~ByteArrayInputStream	718
6.116.3	Member Function Documentation	718
6.116.3.1	available	718
6.116.3.2	close	718
6.116.3.3	lock	718
6.116.3.4	mark	718
6.116.3.5	markSupported	719
6.116.3.6	notify	719
6.116.3.7	notifyAll	719
6.116.3.8	read	719
6.116.3.9	read	720
6.116.3.10	reset	720
6.116.3.11	setBuffer	720
6.116.3.12	setByteArray	720

6.116.3.13	kip	721
6.116.3.14	unlock	721
6.116.3.15	wait	721
6.116.3.16	wait	722
6.117	decaf::io::ByteArrayOutputStream Class Reference	723
6.117.1	Constructor & Destructor Documentation	724
6.117.1.1	ByteArrayOutputStream	724
6.117.1.2	ByteArrayOutputStream	724
6.117.1.3	~ByteArrayOutputStream	724
6.117.2	Member Function Documentation	724
6.117.2.1	close	724
6.117.2.2	flush	725
6.117.2.3	lock	725
6.117.2.4	notify	725
6.117.2.5	notifyAll	725
6.117.2.6	reset	725
6.117.2.7	setBuffer	726
6.117.2.8	size	726
6.117.2.9	toByteArray	726
6.117.2.10	toString	726
6.117.2.11	unlock	726
6.117.2.12	wait	727
6.117.2.13	wait	727
6.117.2.14	write	727
6.117.2.15	write	727
6.117.2.16	write	728
6.117.2.17	writeTo	728
6.118	decaf::internal::nio::ByteArrayPerspective Class Reference	729
6.118.1	Detailed Description	730
6.118.2	Constructor & Destructor Documentation	730
6.118.2.1	ByteArrayPerspective	730
6.118.2.2	ByteArrayPerspective	730
6.118.2.3	ByteArrayPerspective	730
6.118.2.4	ByteArrayPerspective	731
6.118.2.5	ByteArrayPerspective	731
6.118.2.6	ByteArrayPerspective	731

6.118.2.7 ByteArrayPerspective	732
6.118.2.8 ByteArrayPerspective	732
6.118.2.9 ~ByteArrayPerspective	732
6.118.3 Member Function Documentation	732
6.118.3.1 getReferences	732
6.118.3.2 returnRef	733
6.118.3.3 takeRef	733
6.119decaf::nio::ByteBuffer Class Reference	734
6.119.1 Detailed Description	738
6.119.2 Constructor & Destructor Documentation	739
6.119.2.1 ByteBuffer	739
6.119.2.2 ~ByteBuffer	739
6.119.3 Member Function Documentation	739
6.119.3.1 allocate	739
6.119.3.2 array	739
6.119.3.3 arrayOffset	740
6.119.3.4 asCharBuffer	740
6.119.3.5 asDoubleBuffer	740
6.119.3.6 asFloatBuffer	741
6.119.3.7 asIntBuffer	741
6.119.3.8 asLongBuffer	741
6.119.3.9 asReadOnlyBuffer	742
6.119.3.10asShortBuffer	742
6.119.3.11compact	742
6.119.3.12compareTo	743
6.119.3.13duplicate	743
6.119.3.14equals	743
6.119.3.15get	743
6.119.3.16get	744
6.119.3.17get	744
6.119.3.18get	745
6.119.3.19getChar	745
6.119.3.20getChar	745
6.119.3.21getDouble	746
6.119.3.22getDouble	746
6.119.3.23getFloat	746

6.119.3.24	getFloat	747
6.119.3.25	getInt	747
6.119.3.26	getInt	747
6.119.3.27	getLong	748
6.119.3.28	getLong	748
6.119.3.29	getShort	748
6.119.3.30	getShort	749
6.119.3.31	hasArray	749
6.119.3.32	isReadOnly	749
6.119.3.33	operator<	749
6.119.3.34	operator==	750
6.119.3.35	put	750
6.119.3.36	put	750
6.119.3.37	put	751
6.119.3.38	put	751
6.119.3.39	put	751
6.119.3.40	putChar	752
6.119.3.41	putChar	752
6.119.3.42	putDouble	753
6.119.3.43	putDouble	753
6.119.3.44	putFloat	754
6.119.3.45	putFloat	754
6.119.3.46	putInt	754
6.119.3.47	putInt	755
6.119.3.48	putLong	755
6.119.3.49	putLong	756
6.119.3.50	putShort	756
6.119.3.51	putShort	756
6.119.3.52	slice	757
6.119.3.53	toString	757
6.119.3.54	wrap	757
6.119.3.55	wrap	758
6.120	cms::BytesMessage Class Reference	759
6.120.1	Detailed Description	761
6.120.2	Constructor & Destructor Documentation	762
6.120.2.1	~BytesMessage	762

6.120.3 Member Function Documentation	762
6.120.3.1 clone	762
6.120.3.2 getBodyBytes	762
6.120.3.3 getBodyLength	762
6.120.3.4 readBoolean	763
6.120.3.5 readByte	763
6.120.3.6 readBytes	763
6.120.3.7 readBytes	764
6.120.3.8 readChar	764
6.120.3.9 readDouble	765
6.120.3.10 readFloat	765
6.120.3.11 readInt	765
6.120.3.12 readLong	766
6.120.3.13 readShort	766
6.120.3.14 readString	766
6.120.3.15 readUnsignedShort	767
6.120.3.16 readUTF	767
6.120.3.17 reset	767
6.120.3.18 setBodyBytes	768
6.120.3.19 writeBoolean	768
6.120.3.20 writeByte	768
6.120.3.21 writeBytes	769
6.120.3.22 writeBytes	769
6.120.3.23 writeChar	769
6.120.3.24 writeDouble	770
6.120.3.25 writeFloat	770
6.120.3.26 writeInt	770
6.120.3.27 writeLong	771
6.120.3.28 writeShort	771
6.120.3.29 writeString	771
6.120.3.30 writeUnsignedShort	772
6.120.3.31 writeUTF	772
6.121 activemq::cmsutil::CachedConsumer Class Reference	773
6.121.1 Detailed Description	773
6.121.2 Constructor & Destructor Documentation	774
6.121.2.1 CachedConsumer	774

6.121.2.2 ~CachedConsumer	774
6.121.3 Member Function Documentation	774
6.121.3.1 close	774
6.121.3.2 getMessageListener	774
6.121.3.3 getMessageSelector	774
6.121.3.4 receive	774
6.121.3.5 receive	775
6.121.3.6 receiveNoWait	775
6.121.3.7 setMessageListener	775
6.122activemq::cmsutil::CachedProducer Class Reference	777
6.122.1 Detailed Description	778
6.122.2 Constructor & Destructor Documentation	778
6.122.2.1 CachedProducer	778
6.122.2.2 ~CachedProducer	778
6.122.3 Member Function Documentation	778
6.122.3.1 close	778
6.122.3.2 getDeliveryMode	778
6.122.3.3 getDisableMessageID	779
6.122.3.4 getDisableMessageTimeStamp	779
6.122.3.5 getPriority	779
6.122.3.6 getTimeToLive	779
6.122.3.7 send	780
6.122.3.8 send	780
6.122.3.9 send	780
6.122.3.10send	781
6.122.3.11setDeliveryMode	781
6.122.3.12setDisableMessageID	781
6.122.3.13setDisableMessageTimeStamp	782
6.122.3.14setPriority	782
6.122.3.15setTimeToLive	782
6.123decaf::util::concurrent::Callable< V > Class Template Reference	783
6.123.1 Constructor & Destructor Documentation	783
6.123.1.1 ~Callable	783
6.123.2 Member Function Documentation	783
6.123.2.1 call	783
6.124decaf::util::concurrent::CancellationException Class Reference	784

6.124.1 Constructor & Destructor Documentation	784
6.124.1.1 CancellationException	784
6.124.1.2 CancellationException	784
6.124.1.3 CancellationException	785
6.124.1.4 CancellationException	785
6.124.1.5 CancellationException	785
6.124.1.6 CancellationException	785
6.124.1.7 ~CancellationException	786
6.124.2 Member Function Documentation	786
6.124.2.1 clone	786
6.125decaf::security::cert::Certificate Class Reference	787
6.125.1 Detailed Description	787
6.125.2 Constructor & Destructor Documentation	788
6.125.2.1 ~Certificate	788
6.125.3 Member Function Documentation	788
6.125.3.1 equals	788
6.125.3.2 getEncoded	788
6.125.3.3 getPublicKey	788
6.125.3.4 getPublicKey	788
6.125.3.5 getType	789
6.125.3.6 toString	789
6.125.3.7 verify	789
6.125.3.8 verify	790
6.126decaf::security::cert::CertificateEncodingException Class Reference	791
6.126.1 Constructor & Destructor Documentation	791
6.126.1.1 CertificateEncodingException	791
6.126.1.2 CertificateEncodingException	791
6.126.1.3 CertificateEncodingException	791
6.126.1.4 CertificateEncodingException	792
6.126.1.5 ~CertificateEncodingException	792
6.126.2 Member Function Documentation	792
6.126.2.1 clone	792
6.127decaf::security::cert::CertificateException Class Reference	793
6.127.1 Constructor & Destructor Documentation	793
6.127.1.1 CertificateException	793
6.127.1.2 CertificateException	793

6.127.1.3 CertificateException	793
6.127.1.4 CertificateException	794
6.127.1.5 ~CertificateException	794
6.127.2 Member Function Documentation	794
6.127.2.1 clone	794
6.128decaf::security::cert::CertificateExpiredException Class Reference	795
6.128.1 Constructor & Destructor Documentation	795
6.128.1.1 CertificateExpiredException	795
6.128.1.2 CertificateExpiredException	795
6.128.1.3 CertificateExpiredException	795
6.128.1.4 CertificateExpiredException	796
6.128.1.5 ~CertificateExpiredException	796
6.128.2 Member Function Documentation	796
6.128.2.1 clone	796
6.129decaf::security::cert::CertificateNotYetValidException Class Reference	797
6.129.1 Constructor & Destructor Documentation	797
6.129.1.1 CertificateNotYetValidException	797
6.129.1.2 CertificateNotYetValidException	797
6.129.1.3 CertificateNotYetValidException	797
6.129.1.4 CertificateNotYetValidException	798
6.129.1.5 ~CertificateNotYetValidException	798
6.129.2 Member Function Documentation	798
6.129.2.1 clone	798
6.130decaf::security::cert::CertificateParsingException Class Reference	799
6.130.1 Constructor & Destructor Documentation	799
6.130.1.1 CertificateParsingException	799
6.130.1.2 CertificateParsingException	799
6.130.1.3 CertificateParsingException	799
6.130.1.4 CertificateParsingException	800
6.130.1.5 ~CertificateParsingException	800
6.130.2 Member Function Documentation	800
6.130.2.1 clone	800
6.131decaf::lang::Character Class Reference	801
6.131.1 Constructor & Destructor Documentation	803
6.131.1.1 Character	803
6.131.2 Member Function Documentation	803

6.131.2.1 byteValue	803
6.131.2.2 compareTo	803
6.131.2.3 compareTo	803
6.131.2.4 digit	804
6.131.2.5 doubleValue	804
6.131.2.6 equals	804
6.131.2.7 equals	804
6.131.2.8 float Value	804
6.131.2.9 int Value	805
6.131.2.10sDigit	805
6.131.2.11sISOControl	805
6.131.2.12sLetter	805
6.131.2.13sLetterOrDigit	805
6.131.2.14sLowerCase	805
6.131.2.15sUpperCase	805
6.131.2.16sWhitespace	805
6.131.2.17ongValue	806
6.131.2.18operator<	806
6.131.2.19operator<	806
6.131.2.20operator==	806
6.131.2.21operator==	807
6.131.2.22hortValue	807
6.131.2.23oString	807
6.131.2.24valueOf	807
6.131.3 Field Documentation	807
6.131.3.1 MAX_RADIX	807
6.131.3.2 MAX_VALUE	807
6.131.3.3 MIN_RADIX	808
6.131.3.4 MIN_VALUE	808
6.131.3.5 SIZE	808
6.132decaf::internal::nio::CharArrayBuffer Class Reference	809
6.132.1 Constructor & Destructor Documentation	810
6.132.1.1 CharArrayBuffer	810
6.132.1.2 CharArrayBuffer	811
6.132.1.3 CharArrayBuffer	811
6.132.1.4 CharArrayBuffer	811

6.132.1.5	~CharArrayBuffer	812
6.132.2	Member Function Documentation	812
6.132.2.1	array	812
6.132.2.2	arrayOffset	812
6.132.2.3	asReadOnlyBuffer	812
6.132.2.4	compact	813
6.132.2.5	duplicate	813
6.132.2.6	get	813
6.132.2.7	get	814
6.132.2.8	hasArray	814
6.132.2.9	isReadOnly	814
6.132.2.10	put	814
6.132.2.11	put	815
6.132.2.12	setReadOnly	815
6.132.2.13	slice	815
6.132.2.14	subSequence	816
6.132.3	Field Documentation	816
6.132.3.1	_array	816
6.132.3.2	offset	816
6.132.3.3	readOnly	816
6.133	decaf::nio::CharBuffer Class Reference	817
6.133.1	Detailed Description	819
6.133.2	Constructor & Destructor Documentation	820
6.133.2.1	CharBuffer	820
6.133.2.2	~CharBuffer	820
6.133.3	Member Function Documentation	820
6.133.3.1	allocate	820
6.133.3.2	append	820
6.133.3.3	append	821
6.133.3.4	append	821
6.133.3.5	array	822
6.133.3.6	arrayOffset	822
6.133.3.7	asReadOnlyBuffer	822
6.133.3.8	charAt	823
6.133.3.9	compact	823
6.133.3.10	compareTo	824

6.133.3.11	duplicate	824
6.133.3.12	equals	824
6.133.3.13	get	824
6.133.3.14	get	825
6.133.3.15	get	825
6.133.3.16	get	825
6.133.3.17	hasArray	826
6.133.3.18	length	826
6.133.3.19	operator<	826
6.133.3.20	operator==	826
6.133.3.21	put	827
6.133.3.22	put	827
6.133.3.23	put	828
6.133.3.24	put	828
6.133.3.25	put	828
6.133.3.26	put	829
6.133.3.27	put	829
6.133.3.28	read	830
6.133.3.29	slice	830
6.133.3.30	subSequence	831
6.133.3.31	toString	831
6.133.3.32	wrap	831
6.133.3.33	wrap	832
6.134	decaf::lang::CharSequence Class Reference	833
6.134.1	Detailed Description	833
6.134.2	Constructor & Destructor Documentation	833
6.134.2.1	~CharSequence	833
6.134.3	Member Function Documentation	833
6.134.3.1	charAt	833
6.134.3.2	length	834
6.134.3.3	subSequence	834
6.134.3.4	toString	834
6.135	decaf::lang::exceptions::ClassCastException Class Reference	835
6.135.1	Constructor & Destructor Documentation	835
6.135.1.1	ClassCastException	835
6.135.1.2	ClassCastException	835

6.135.1.3 ClassCastException	836
6.135.1.4 ClassCastException	836
6.135.1.5 ClassCastException	836
6.135.1.6 ClassCastException	836
6.135.1.7 ~ClassCastException	837
6.135.2 Member Function Documentation	837
6.135.2.1 clone	837
6.136cms::Closeable Class Reference	838
6.136.1 Detailed Description	838
6.136.2 Constructor & Destructor Documentation	838
6.136.2.1 ~Closeable	838
6.136.3 Member Function Documentation	838
6.136.3.1 close	838
6.137decaf::io::Closeable Class Reference	840
6.137.1 Detailed Description	840
6.137.2 Constructor & Destructor Documentation	840
6.137.2.1 ~Closeable	840
6.137.3 Member Function Documentation	840
6.137.3.1 close	840
6.138activemq::transport::failover::CloseTransportsTask Class Reference	841
6.138.1 Constructor & Destructor Documentation	841
6.138.1.1 CloseTransportsTask	841
6.138.1.2 ~CloseTransportsTask	841
6.138.2 Member Function Documentation	841
6.138.2.1 add	841
6.138.2.2 isPending	841
6.138.2.3 iterate	842
6.139activemq::cmsutil::CmsAccessor Class Reference	843
6.139.1 Detailed Description	844
6.139.2 Constructor & Destructor Documentation	844
6.139.2.1 CmsAccessor	844
6.139.2.2 ~CmsAccessor	844
6.139.3 Member Function Documentation	844
6.139.3.1 checkConnectionFactory	844
6.139.3.2 createConnection	844
6.139.3.3 createSession	845

6.139.3.4	destroy	845
6.139.3.5	getConnectionFactory	845
6.139.3.6	getConnectionFactory	845
6.139.3.7	getResourceLifecycleManager	845
6.139.3.8	getResourceLifecycleManager	845
6.139.3.9	getSessionAcknowledgeMode	845
6.139.3.10	init	846
6.139.3.11	setConnectionFactory	846
6.139.3.12	setSessionAcknowledgeMode	846
6.140	activemq::cmsutil::CmsDestinationAccessor Class Reference	847
6.140.1	Detailed Description	847
6.140.2	Constructor & Destructor Documentation	848
6.140.2.1	CmsDestinationAccessor	848
6.140.2.2	~CmsDestinationAccessor	848
6.140.3	Member Function Documentation	848
6.140.3.1	checkDestinationResolver	848
6.140.3.2	destroy	848
6.140.3.3	getDestinationResolver	848
6.140.3.4	getDestinationResolver	848
6.140.3.5	init	848
6.140.3.6	isPubSubDomain	849
6.140.3.7	resolveDestinationName	849
6.140.3.8	setDestinationResolver	849
6.140.3.9	setPubSubDomain	849
6.141	cms::CMSException Class Reference	850
6.141.1	Detailed Description	850
6.141.2	Constructor & Destructor Documentation	851
6.141.2.1	CMSException	851
6.141.2.2	CMSException	851
6.141.2.3	CMSException	851
6.141.2.4	CMSException	851
6.141.2.5	~CMSException	851
6.141.3	Member Function Documentation	851
6.141.3.1	getCause	851
6.141.3.2	getMessage	851
6.141.3.3	getStackTrace	851

6.141.3.4	getStackTraceString	852
6.141.3.5	printStackTrace	852
6.141.3.6	printStackTrace	852
6.141.3.7	setMark	852
6.142	cms::CMSProperties Class Reference	853
6.142.1	Detailed Description	854
6.142.2	Constructor & Destructor Documentation	854
6.142.2.1	~CMSProperties	854
6.142.3	Member Function Documentation	854
6.142.3.1	clear	854
6.142.3.2	clone	854
6.142.3.3	copy	854
6.142.3.4	getProperty	854
6.142.3.5	getProperty	855
6.142.3.6	hasProperty	855
6.142.3.7	isEmpty	855
6.142.3.8	remove	855
6.142.3.9	setProperty	856
6.142.3.10	toArray	856
6.142.3.11	toString	856
6.143	cms::CMSSecurityException Class Reference	857
6.143.1	Detailed Description	857
6.143.2	Constructor & Destructor Documentation	857
6.143.2.1	CMSSecurityException	857
6.143.2.2	CMSSecurityException	857
6.143.2.3	CMSSecurityException	857
6.143.2.4	CMSSecurityException	857
6.143.2.5	~CMSSecurityException	857
6.144	activemq::cmsutil::CmsTemplate Class Reference	858
6.144.1	Detailed Description	861
6.144.2	Constructor & Destructor Documentation	861
6.144.2.1	CmsTemplate	861
6.144.2.2	CmsTemplate	861
6.144.2.3	~CmsTemplate	861
6.144.3	Member Function Documentation	861
6.144.3.1	destroy	861

6.144.3.2 execute	862
6.144.3.3 execute	862
6.144.3.4 execute	862
6.144.3.5 execute	862
6.144.3.6 getDefaultDestination	863
6.144.3.7 getDefaultDestination	863
6.144.3.8 getDefaultDestinationName	863
6.144.3.9 getDeliveryMode	863
6.144.3.10getPriority	863
6.144.3.11getReceiveTimeout	863
6.144.3.12getTimeToLive	863
6.144.3.13nit	864
6.144.3.14sExplicitQosEnabled	864
6.144.3.15sMessageIdEnabled	864
6.144.3.16sMessageTimestampEnabled	864
6.144.3.17sNoLocal	864
6.144.3.18receive	864
6.144.3.19receive	865
6.144.3.20receive	865
6.144.3.21receiveSelected	865
6.144.3.22receiveSelected	866
6.144.3.23receiveSelected	866
6.144.3.24end	866
6.144.3.25end	867
6.144.3.26end	867
6.144.3.27setDefaultDestination	867
6.144.3.28setDefaultDestinationName	867
6.144.3.29setDefaultDeliveryMode	868
6.144.3.30setDefaultDeliveryPersistent	868
6.144.3.31setDefaultExplicitQosEnabled	868
6.144.3.32setDefaultMessageIdEnabled	869
6.144.3.33setDefaultMessageTimestampEnabled	869
6.144.3.34setDefaultNoLocal	869
6.144.3.35setDefaultPriority	869
6.144.3.36setDefaultPubSubDomain	869
6.144.3.37setDefaultReceiveTimeout	869

6.144.3.3	setTimeToLive	869
6.144.4	Friends And Related Function Documentation	870
6.144.4.1	ProducerExecutor	870
6.144.4.2	ReceiveExecutor	870
6.144.4.3	ResolveProducerExecutor	870
6.144.4.4	ResolveReceiveExecutor	870
6.144.4.5	SendExecutor	870
6.144.5	Field Documentation	870
6.144.5.1	DEFAULT_PRIORITY	870
6.144.5.2	DEFAULT_TIME_TO_LIVE	870
6.144.5.3	RECEIVE_TIMEOUT_INDEFINITE_WAIT	870
6.144.5.4	RECEIVE_TIMEOUT_NO_WAIT	870
6.145	decaf::util::Collection< E > Class Template Reference	871
6.145.1	Detailed Description	872
6.145.2	Constructor & Destructor Documentation	873
6.145.2.1	~Collection	873
6.145.3	Member Function Documentation	873
6.145.3.1	add	873
6.145.3.2	addAll	874
6.145.3.3	clear	874
6.145.3.4	contains	875
6.145.3.5	containsAll	875
6.145.3.6	equals	875
6.145.3.7	isEmpty	876
6.145.3.8	remove	876
6.145.3.9	removeAll	877
6.145.3.10	retainAll	877
6.145.3.11	size	878
6.145.3.12	toArray	878
6.146	activemq::commands::Command Class Reference	879
6.146.1	Constructor & Destructor Documentation	880
6.146.1.1	~Command	880
6.146.2	Member Function Documentation	880
6.146.2.1	getCommandId	880
6.146.2.2	isBrokerInfo	880
6.146.2.3	isConnectionInfo	880

6.146.2.4 isConsumerInfo	880
6.146.2.5 isKeepAliveInfo	880
6.146.2.6 isMessage	880
6.146.2.7 isMessageAck	881
6.146.2.8 isMessageDispatch	881
6.146.2.9 isMessageDispatchNotification	881
6.146.2.10 isProducerAck	881
6.146.2.11 isProducerInfo	881
6.146.2.12 isRemoveInfo	881
6.146.2.13 isRemoveSubscriptionInfo	881
6.146.2.14 isResponse	881
6.146.2.15 isResponseRequired	882
6.146.2.16 isShutdownInfo	882
6.146.2.17 isTransactionInfo	882
6.146.2.18 isWireFormatInfo	882
6.146.2.19 setCommandId	882
6.146.2.20 setResponseRequired	882
6.146.2.21 toString	883
6.146.2.22 visit	883
6.147 activemq::state::CommandVisitor Class Reference	885
6.147.1 Detailed Description	886
6.147.2 Constructor & Destructor Documentation	887
6.147.2.1 ~CommandVisitor	887
6.147.3 Member Function Documentation	887
6.147.3.1 processBeginTransaction	887
6.147.3.2 processBrokerError	887
6.147.3.3 processBrokerInfo	887
6.147.3.4 processCommitTransactionOnePhase	887
6.147.3.5 processCommitTransactionTwoPhase	887
6.147.3.6 processConnectionControl	888
6.147.3.7 processConnectionError	888
6.147.3.8 processConnectionInfo	888
6.147.3.9 processConsumerControl	888
6.147.3.10 processConsumerInfo	888
6.147.3.11 processControlCommand	888
6.147.3.12 processDestinationInfo	888

6.147.3.13	processEndTransaction	888
6.147.3.14	processFlushCommand	889
6.147.3.15	processForgetTransaction	889
6.147.3.16	processKeepAliveInfo	889
6.147.3.17	processMessage	889
6.147.3.18	processMessageAck	889
6.147.3.19	processMessageDispatch	889
6.147.3.20	processMessageDispatchNotification	889
6.147.3.21	processMessagePull	889
6.147.3.22	processPrepareTransaction	889
6.147.3.23	processProducerAck	890
6.147.3.24	processProducerInfo	890
6.147.3.25	processRecoverTransactions	890
6.147.3.26	processRemoveConnection	890
6.147.3.27	processRemoveConsumer	890
6.147.3.28	processRemoveDestination	890
6.147.3.29	processRemoveInfo	890
6.147.3.30	processRemoveProducer	890
6.147.3.31	processRemoveSession	891
6.147.3.32	processRemoveSubscriptionInfo	891
6.147.3.33	processReplayCommand	891
6.147.3.34	processResponse	891
6.147.3.35	processRollbackTransaction	891
6.147.3.36	processSessionInfo	891
6.147.3.37	processShutdownInfo	891
6.147.3.38	processTransactionInfo	891
6.147.3.39	processWireFormat	892
6.148	activemq::state::CommandVisitorAdapter Class Reference	893
6.148.1	Detailed Description	895
6.148.2	Constructor & Destructor Documentation	896
6.148.2.1	~CommandVisitorAdapter	896
6.148.3	Member Function Documentation	896
6.148.3.1	processBeginTransaction	896
6.148.3.2	processBrokerError	896
6.148.3.3	processBrokerInfo	896
6.148.3.4	processCommitTransactionOnePhase	896

6.148.3.5 processCommitTransactionTwoPhase	896
6.148.3.6 processConnectionControl	896
6.148.3.7 processConnectionError	896
6.148.3.8 processConnectionInfo	896
6.148.3.9 processConsumerControl	896
6.148.3.10 processConsumerInfo	896
6.148.3.11 processControlCommand	896
6.148.3.12 processDestinationInfo	896
6.148.3.13 processEndTransaction	896
6.148.3.14 processFlushCommand	896
6.148.3.15 processForgetTransaction	896
6.148.3.16 processKeepAliveInfo	896
6.148.3.17 processMessage	896
6.148.3.18 processMessageAck	896
6.148.3.19 processMessageDispatch	896
6.148.3.20 processMessageDispatchNotification	896
6.148.3.21 processMessagePull	896
6.148.3.22 processPrepareTransaction	896
6.148.3.23 processProducerAck	896
6.148.3.24 processProducerInfo	896
6.148.3.25 processRecoverTransactions	896
6.148.3.26 processRemoveConnection	896
6.148.3.27 processRemoveConsumer	896
6.148.3.28 processRemoveDestination	896
6.148.3.29 processRemoveInfo	896
6.148.3.30 processRemoveProducer	897
6.148.3.31 processRemoveSession	897
6.148.3.32 processRemoveSubscriptionInfo	897
6.148.3.33 processReplayCommand	897
6.148.3.34 processResponse	897
6.148.3.35 processRollbackTransaction	897
6.148.3.36 processSessionInfo	897
6.148.3.37 processShutdownInfo	897
6.148.3.38 processTransactionInfo	897
6.148.3.39 processWireFormat	898
6.149decaf::lang::Comparable< T > Class Template Reference	899

6.149.1 Detailed Description	899
6.149.2 Constructor & Destructor Documentation	899
6.149.2.1 ~Comparable	899
6.149.3 Member Function Documentation	899
6.149.3.1 compareTo	899
6.149.3.2 equals	900
6.149.3.3 operator<	900
6.149.3.4 operator==	901
6.150decaf::util::Comparator< T > Class Template Reference	902
6.150.1 Detailed Description	902
6.150.2 Constructor & Destructor Documentation	902
6.150.2.1 ~Comparator	902
6.150.3 Member Function Documentation	902
6.150.3.1 compare	902
6.150.3.2 operator()	903
6.151activemq::util::CompositeData Class Reference	904
6.151.1 Detailed Description	904
6.151.2 Constructor & Destructor Documentation	905
6.151.2.1 CompositeData	905
6.151.2.2 ~CompositeData	905
6.151.3 Member Function Documentation	905
6.151.3.1 getComponents	905
6.151.3.2 getComponents	905
6.151.3.3 getFragment	905
6.151.3.4 getHost	905
6.151.3.5 getParameters	905
6.151.3.6 getPath	905
6.151.3.7 getScheme	905
6.151.3.8 setComponents	905
6.151.3.9 setFragment	905
6.151.3.10setHost	905
6.151.3.11setParameters	905
6.151.3.12setPath	905
6.151.3.13setScheme	905
6.151.3.14oURI	905
6.152activemq::threads::CompositeTask Class Reference	906

6.152.1 Detailed Description	906
6.152.2 Constructor & Destructor Documentation	906
6.152.2.1 ~CompositeTask	906
6.152.3 Member Function Documentation	906
6.152.3.1 isPending	906
6.153activemq::threads::CompositeTaskRunner Class Reference	908
6.153.1 Detailed Description	908
6.153.2 Constructor & Destructor Documentation	909
6.153.2.1 CompositeTaskRunner	909
6.153.2.2 ~CompositeTaskRunner	909
6.153.3 Member Function Documentation	909
6.153.3.1 addTask	909
6.153.3.2 iterate	909
6.153.3.3 removeTask	909
6.153.3.4 run	909
6.153.3.5 shutdown	909
6.153.3.6 shutdown	910
6.153.3.7 wakeup	910
6.154activemq::transport::CompositeTransport Class Reference	911
6.154.1 Detailed Description	911
6.154.2 Constructor & Destructor Documentation	911
6.154.2.1 ~CompositeTransport	911
6.154.3 Member Function Documentation	911
6.154.3.1 addURI	911
6.154.3.2 removeURI	912
6.155decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR > Class Template Reference	913
6.155.1 Detailed Description	913
6.155.2 Constructor & Destructor Documentation	914
6.155.2.1 ~ConcurrentMap	914
6.155.3 Member Function Documentation	914
6.155.3.1 putIfAbsent	914
6.155.3.2 remove	915
6.155.3.3 replace	915
6.155.3.4 replace	916
6.156decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > Class Tem- plate Reference	918

6.156.1 Detailed Description	921
6.156.2 Constructor & Destructor Documentation	921
6.156.2.1 ConcurrentStlMap	921
6.156.2.2 ConcurrentStlMap	922
6.156.2.3 ConcurrentStlMap	922
6.156.2.4 ~ConcurrentStlMap	922
6.156.3 Member Function Documentation	922
6.156.3.1 clear	922
6.156.3.2 containsKey	922
6.156.3.3 containsValue	923
6.156.3.4 copy	923
6.156.3.5 copy	923
6.156.3.6 equals	924
6.156.3.7 equals	924
6.156.3.8 get	924
6.156.3.9 get	925
6.156.3.10 isEmpty	925
6.156.3.11 keySet	925
6.156.3.12 lock	926
6.156.3.13 notify	926
6.156.3.14 notifyAll	926
6.156.3.15 put	926
6.156.3.16 putAll	927
6.156.3.17 putAll	927
6.156.3.18 putIfAbsent	927
6.156.3.19 remove	928
6.156.3.20 remove	929
6.156.3.21 replace	929
6.156.3.22 replace	930
6.156.3.23 size	930
6.156.3.24 unlock	930
6.156.3.25 values	931
6.156.3.26 wait	931
6.156.3.27 wait	931
6.157 decaf::util::concurrent::locks::Condition Class Reference	932
6.157.1 Detailed Description	932

6.157.2 Constructor & Destructor Documentation	934
6.157.2.1 ~Condition	934
6.157.3 Member Function Documentation	934
6.157.3.1 await	934
6.157.3.2 await	934
6.157.3.3 awaitNanos	935
6.157.3.4 awaitUninterruptibly	936
6.157.3.5 signal	937
6.157.3.6 signalAll	937
6.158decaf::net::ConnectException Class Reference	938
6.158.1 Constructor & Destructor Documentation	938
6.158.1.1 ConnectException	938
6.158.1.2 ConnectException	938
6.158.1.3 ConnectException	939
6.158.1.4 ConnectException	939
6.158.1.5 ConnectException	939
6.158.1.6 ConnectException	939
6.158.1.7 ~ConnectException	940
6.158.2 Member Function Documentation	940
6.158.2.1 clone	940
6.159cms::Connection Class Reference	941
6.159.1 Detailed Description	941
6.159.2 Constructor & Destructor Documentation	942
6.159.2.1 ~Connection	942
6.159.3 Member Function Documentation	942
6.159.3.1 close	942
6.159.3.2 createSession	942
6.159.3.3 createSession	943
6.159.3.4 getClientID	943
6.159.3.5 getExceptionListener	943
6.159.3.6 getMetaData	943
6.159.3.7 setExceptionListener	944
6.160activemq::commands::ConnectionControl Class Reference	945
6.160.1 Constructor & Destructor Documentation	946
6.160.1.1 ConnectionControl	946
6.160.1.2 ConnectionControl	946

6.160.1.3	~ConnectionControl	946
6.160.2	Member Function Documentation	946
6.160.2.1	cloneDataStructure	946
6.160.2.2	copyDataStructure	946
6.160.2.3	equals	947
6.160.2.4	getDataStructureType	947
6.160.2.5	isClose	948
6.160.2.6	isExit	948
6.160.2.7	isFaultTolerant	948
6.160.2.8	isResume	948
6.160.2.9	isSuspend	948
6.160.2.10	operator=	948
6.160.2.11	setClose	948
6.160.2.12	setExit	948
6.160.2.13	setFaultTolerant	948
6.160.2.14	setResume	948
6.160.2.15	setSuspend	948
6.160.2.16	toString	948
6.160.2.17	visit	948
6.160.3	Field Documentation	949
6.160.3.1	close	949
6.160.3.2	exit	949
6.160.3.3	faultTolerant	949
6.160.3.4	ID_CONNECTIONCONTROL	949
6.160.3.5	resume	949
6.160.3.6	suspend	949
6.161	activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller Class Reference	950
6.161.1	Detailed Description	950
6.161.2	Constructor & Destructor Documentation	951
6.161.2.1	ConnectionControlMarshaller	951
6.161.2.2	~ConnectionControlMarshaller	951
6.161.3	Member Function Documentation	951
6.161.3.1	createObject	951
6.161.3.2	getDataStructureType	951
6.161.3.3	looseMarshal	951
6.161.3.4	looseUnmarshal	952

6.161.3.5 tightMarshal1	952
6.161.3.6 tightMarshal2	953
6.161.3.7 tightUnmarshal	953
6.162activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller Class	
Reference	954
6.162.1 Detailed Description	954
6.162.2 Constructor & Destructor Documentation	955
6.162.2.1 ConnectionControlMarshaller	955
6.162.2.2 ~ConnectionControlMarshaller	955
6.162.3 Member Function Documentation	955
6.162.3.1 createObject	955
6.162.3.2 getDataStructureType	955
6.162.3.3 looseMarshal	955
6.162.3.4 looseUnmarshal	956
6.162.3.5 tightMarshal1	956
6.162.3.6 tightMarshal2	957
6.162.3.7 tightUnmarshal	957
6.163activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller Class	
Reference	958
6.163.1 Detailed Description	958
6.163.2 Constructor & Destructor Documentation	959
6.163.2.1 ConnectionControlMarshaller	959
6.163.2.2 ~ConnectionControlMarshaller	959
6.163.3 Member Function Documentation	959
6.163.3.1 createObject	959
6.163.3.2 getDataStructureType	959
6.163.3.3 looseMarshal	959
6.163.3.4 looseUnmarshal	960
6.163.3.5 tightMarshal1	960
6.163.3.6 tightMarshal2	961
6.163.3.7 tightUnmarshal	961
6.164activemq::commands::ConnectionError Class Reference	962
6.164.1 Constructor & Destructor Documentation	963
6.164.1.1 ConnectionError	963
6.164.1.2 ConnectionError	963
6.164.1.3 ~ConnectionError	963
6.164.2 Member Function Documentation	963

6.164.2.1 cloneDataStructure	963
6.164.2.2 copyDataStructure	963
6.164.2.3 equals	963
6.164.2.4 getConnectionId	964
6.164.2.5 getConnectionId	964
6.164.2.6 getDataStructureType	964
6.164.2.7 getException	964
6.164.2.8 getException	964
6.164.2.9 operator=	964
6.164.2.10 setConnectionId	964
6.164.2.11 setException	964
6.164.2.12 toString	964
6.164.2.13 visit	965
6.164.3 Field Documentation	965
6.164.3.1 connectionId	965
6.164.3.2 exception	965
6.164.3.3 ID_CONNECTIONERROR	965
6.165activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller Class	
Reference	966
6.165.1 Detailed Description	966
6.165.2 Constructor & Destructor Documentation	967
6.165.2.1 ConnectionErrorMarshaller	967
6.165.2.2 ~ConnectionErrorMarshaller	967
6.165.3 Member Function Documentation	967
6.165.3.1 createObject	967
6.165.3.2 getDataStructureType	967
6.165.3.3 looseMarshal	967
6.165.3.4 looseUnmarshal	968
6.165.3.5 tightMarshal1	968
6.165.3.6 tightMarshal2	969
6.165.3.7 tightUnmarshal	969
6.166activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller Class	
Reference	970
6.166.1 Detailed Description	970
6.166.2 Constructor & Destructor Documentation	971
6.166.2.1 ConnectionErrorMarshaller	971
6.166.2.2 ~ConnectionErrorMarshaller	971

6.166.3 Member Function Documentation	971
6.166.3.1 createObject	971
6.166.3.2 getDataStructureType	971
6.166.3.3 looseMarshal	971
6.166.3.4 looseUnmarshal	972
6.166.3.5 tightMarshal1	972
6.166.3.6 tightMarshal2	973
6.166.3.7 tightUnmarshal	973
6.167activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller Class Reference	974
6.167.1 Detailed Description	974
6.167.2 Constructor & Destructor Documentation	975
6.167.2.1 ConnectionErrorMarshaller	975
6.167.2.2 ~ConnectionErrorMarshaller	975
6.167.3 Member Function Documentation	975
6.167.3.1 createObject	975
6.167.3.2 getDataStructureType	975
6.167.3.3 looseMarshal	975
6.167.3.4 looseUnmarshal	976
6.167.3.5 tightMarshal1	976
6.167.3.6 tightMarshal2	977
6.167.3.7 tightUnmarshal	977
6.168cms::ConnectionFactory Class Reference	978
6.168.1 Detailed Description	978
6.168.2 Constructor & Destructor Documentation	979
6.168.2.1 ~ConnectionFactory	979
6.168.3 Member Function Documentation	979
6.168.3.1 createCMSConnectionFactory	979
6.168.3.2 createConnection	979
6.168.3.3 createConnection	980
6.168.3.4 createConnection	980
6.169activemq::commands::ConnectionId Class Reference	981
6.169.1 Member Typedef Documentation	982
6.169.1.1 COMPARATOR	982
6.169.2 Constructor & Destructor Documentation	982
6.169.2.1 ConnectionId	982
6.169.2.2 ConnectionId	982

6.169.2.3	ConnectionId	982
6.169.2.4	ConnectionId	982
6.169.2.5	ConnectionId	982
6.169.2.6	~ConnectionId	982
6.169.3	Member Function Documentation	982
6.169.3.1	cloneDataStructure	982
6.169.3.2	compareTo	982
6.169.3.3	copyDataStructure	982
6.169.3.4	equals	983
6.169.3.5	equals	983
6.169.3.6	getDataStructureType	983
6.169.3.7	getValue	983
6.169.3.8	getValue	983
6.169.3.9	operator<	983
6.169.3.10	operator=	983
6.169.3.11	operator==	983
6.169.3.12	setValue	983
6.169.3.13	toString	983
6.169.4	Field Documentation	984
6.169.4.1	ID_CONNECTIONID	984
6.169.4.2	value	984
6.170	activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller Class Reference	985
6.170.1	Detailed Description	985
6.170.2	Constructor & Destructor Documentation	986
6.170.2.1	ConnectionIdMarshaller	986
6.170.2.2	~ConnectionIdMarshaller	986
6.170.3	Member Function Documentation	986
6.170.3.1	createObject	986
6.170.3.2	getDataStructureType	986
6.170.3.3	looseMarshal	986
6.170.3.4	looseUnmarshal	987
6.170.3.5	tightMarshal1	987
6.170.3.6	tightMarshal2	988
6.170.3.7	tightUnmarshal	988
6.171	activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller Class Reference	989

6.171.1 Detailed Description	989
6.171.2 Constructor & Destructor Documentation	990
6.171.2.1 ConnectionIdMarshaller	990
6.171.2.2 ~ConnectionIdMarshaller	990
6.171.3 Member Function Documentation	990
6.171.3.1 createObject	990
6.171.3.2 getDataStructureType	990
6.171.3.3 looseMarshal	990
6.171.3.4 looseUnmarshal	991
6.171.3.5 tightMarshal1	991
6.171.3.6 tightMarshal2	992
6.171.3.7 tightUnmarshal	992
6.172activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller Class Refer- ence	993
6.172.1 Detailed Description	993
6.172.2 Constructor & Destructor Documentation	994
6.172.2.1 ConnectionIdMarshaller	994
6.172.2.2 ~ConnectionIdMarshaller	994
6.172.3 Member Function Documentation	994
6.172.3.1 createObject	994
6.172.3.2 getDataStructureType	994
6.172.3.3 looseMarshal	994
6.172.3.4 looseUnmarshal	995
6.172.3.5 tightMarshal1	995
6.172.3.6 tightMarshal2	996
6.172.3.7 tightUnmarshal	996
6.173activemq::commands::ConnectionInfo Class Reference	997
6.173.1 Constructor & Destructor Documentation	998
6.173.1.1 ConnectionInfo	998
6.173.1.2 ConnectionInfo	998
6.173.1.3 ~ConnectionInfo	998
6.173.2 Member Function Documentation	998
6.173.2.1 cloneDataStructure	998
6.173.2.2 copyDataStructure	999
6.173.2.3 equals	999
6.173.2.4 getBrokerPath	999
6.173.2.5 getBrokerPath	999

6.173.2.6	getClientId	999
6.173.2.7	getClientId	999
6.173.2.8	getConnectionId	999
6.173.2.9	getConnectionId	999
6.173.2.10	getDataStructureType	999
6.173.2.11	getPassword	1000
6.173.2.12	getPassword	1000
6.173.2.13	getUserName	1000
6.173.2.14	getUserName	1000
6.173.2.15	isBrokerMasterConnector	1000
6.173.2.16	isClientMaster	1000
6.173.2.17	isConnectionInfo	1000
6.173.2.18	isManageable	1001
6.173.2.19	operator=	1001
6.173.2.20	setBrokerMasterConnector	1001
6.173.2.21	setBrokerPath	1001
6.173.2.22	setClientId	1001
6.173.2.23	setClientMaster	1001
6.173.2.24	setConnectionId	1001
6.173.2.25	setManageable	1001
6.173.2.26	setPassword	1001
6.173.2.27	setUserName	1001
6.173.2.28	toString	1001
6.173.2.29	visit	1001
6.173.3	Field Documentation	1002
6.173.3.1	brokerMasterConnector	1002
6.173.3.2	brokerPath	1002
6.173.3.3	clientId	1002
6.173.3.4	clientMaster	1002
6.173.3.5	connectionId	1002
6.173.3.6	ID_CONNECTIONINFO	1002
6.173.3.7	manageable	1002
6.173.3.8	password	1002
6.173.3.9	userName	1002
6.174	activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller Class Reference	1003
6.174.1	Detailed Description	1003

6.174.2 Constructor & Destructor Documentation	1004
6.174.2.1 ConnectionInfoMarshaller	1004
6.174.2.2 ~ConnectionInfoMarshaller	1004
6.174.3 Member Function Documentation	1004
6.174.3.1 createObject	1004
6.174.3.2 getDataStructureType	1004
6.174.3.3 looseMarshal	1004
6.174.3.4 looseUnmarshal	1005
6.174.3.5 tightMarshal1	1005
6.174.3.6 tightMarshal2	1006
6.174.3.7 tightUnmarshal	1006
6.175activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller Class Reference	1007
6.175.1 Detailed Description	1007
6.175.2 Constructor & Destructor Documentation	1008
6.175.2.1 ConnectionInfoMarshaller	1008
6.175.2.2 ~ConnectionInfoMarshaller	1008
6.175.3 Member Function Documentation	1008
6.175.3.1 createObject	1008
6.175.3.2 getDataStructureType	1008
6.175.3.3 looseMarshal	1008
6.175.3.4 looseUnmarshal	1009
6.175.3.5 tightMarshal1	1009
6.175.3.6 tightMarshal2	1010
6.175.3.7 tightUnmarshal	1010
6.176activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller Class Reference	1011
6.176.1 Detailed Description	1011
6.176.2 Constructor & Destructor Documentation	1012
6.176.2.1 ConnectionInfoMarshaller	1012
6.176.2.2 ~ConnectionInfoMarshaller	1012
6.176.3 Member Function Documentation	1012
6.176.3.1 createObject	1012
6.176.3.2 getDataStructureType	1012
6.176.3.3 looseMarshal	1012
6.176.3.4 looseUnmarshal	1013
6.176.3.5 tightMarshal1	1013

6.176.3.6 tightMarshal2	1014
6.176.3.7 tightUnmarshal	1014
6.177cms::ConnectionMetaData Class Reference	1015
6.177.1 Detailed Description	1015
6.177.2 Constructor & Destructor Documentation	1016
6.177.2.1 ~ConnectionMetaData	1016
6.177.3 Member Function Documentation	1016
6.177.3.1 getCMSMajorVersion	1016
6.177.3.2 getCMSMinorVersion	1016
6.177.3.3 getCMSProviderName	1016
6.177.3.4 getCMSVersion	1017
6.177.3.5 getCMSXPropertyNames	1017
6.177.3.6 getProviderMajorVersion	1017
6.177.3.7 getProviderMinorVersion	1017
6.177.3.8 getProviderVersion	1018
6.178activemq::state::ConnectionState Class Reference	1019
6.178.1 Constructor & Destructor Documentation	1020
6.178.1.1 ConnectionState	1020
6.178.1.2 ~ConnectionState	1020
6.178.2 Member Function Documentation	1020
6.178.2.1 addSession	1020
6.178.2.2 addTempDestination	1020
6.178.2.3 addTransactionState	1020
6.178.2.4 checkShutdown	1020
6.178.2.5 getInfo	1020
6.178.2.6 getSessionState	1020
6.178.2.7 getSessionStates	1020
6.178.2.8 getTempDesinations	1020
6.178.2.9 getTransactionState	1020
6.178.2.10getTransactionStates	1020
6.178.2.11removeSession	1020
6.178.2.12removeTempDestination	1020
6.178.2.13removeTransactionState	1021
6.178.2.14reset	1021
6.178.2.15shutdown	1021
6.178.2.16oString	1021

6.179activemq::state::ConnectionStateTracker Class Reference	1022
6.179.1 Constructor & Destructor Documentation	1024
6.179.1.1 ConnectionStateTracker	1024
6.179.1.2 ~ConnectionStateTracker	1024
6.179.2 Member Function Documentation	1024
6.179.2.1 getMaxCacheSize	1024
6.179.2.2 isRestoreConsumers	1024
6.179.2.3 isRestoreProducers	1024
6.179.2.4 isRestoreSessions	1024
6.179.2.5 isRestoreTransaction	1024
6.179.2.6 isTrackMessages	1024
6.179.2.7 isTrackTransactions	1024
6.179.2.8 processBeginTransaction	1024
6.179.2.9 processCommitTransactionOnePhase	1024
6.179.2.10processCommitTransactionTwoPhase	1024
6.179.2.11processConnectionInfo	1025
6.179.2.12processConsumerInfo	1025
6.179.2.13processDestinationInfo	1025
6.179.2.14processEndTransaction	1025
6.179.2.15processMessage	1025
6.179.2.16processMessageAck	1025
6.179.2.17processPrepareTransaction	1025
6.179.2.18processProducerInfo	1026
6.179.2.19processRemoveConnection	1026
6.179.2.20processRemoveConsumer	1026
6.179.2.21processRemoveDestination	1026
6.179.2.22processRemoveProducer	1026
6.179.2.23processRemoveSession	1026
6.179.2.24processRollbackTransaction	1026
6.179.2.25processSessionInfo	1027
6.179.2.26restore	1027
6.179.2.27setMaxCacheSize	1027
6.179.2.28setRestoreConsumers	1027
6.179.2.29setRestoreProducers	1027
6.179.2.30setRestoreSessions	1027
6.179.2.31setRestoreTransaction	1027

6.179.2.32	setTrackMessages	1027
6.179.2.33	setTrackTransactions	1027
6.179.2.34	rack	1027
6.179.2.35	rackBack	1027
6.179.3	Friends And Related Function Documentation	1027
6.179.3.1	RemoveTransactionAction	1027
6.180	activemq::commands::ConsumerControl Class Reference	1028
6.180.1	Constructor & Destructor Documentation	1029
6.180.1.1	ConsumerControl	1029
6.180.1.2	ConsumerControl	1029
6.180.1.3	~ConsumerControl	1029
6.180.2	Member Function Documentation	1029
6.180.2.1	cloneDataStructure	1029
6.180.2.2	copyDataStructure	1029
6.180.2.3	equals	1030
6.180.2.4	getConsumerId	1030
6.180.2.5	getConsumerId	1030
6.180.2.6	getDataStructureType	1030
6.180.2.7	getPrefetch	1031
6.180.2.8	isClose	1031
6.180.2.9	isFlush	1031
6.180.2.10	isStart	1031
6.180.2.11	isStop	1031
6.180.2.12	operator=	1031
6.180.2.13	setClose	1031
6.180.2.14	setConsumerId	1031
6.180.2.15	setFlush	1031
6.180.2.16	setPrefetch	1031
6.180.2.17	setStart	1031
6.180.2.18	setStop	1031
6.180.2.19	toString	1031
6.180.2.20	visit	1032
6.180.3	Field Documentation	1032
6.180.3.1	close	1032
6.180.3.2	consumerId	1032
6.180.3.3	flush	1032

6.180.3.4 ID_ CONSUMERCONTROL	1032
6.180.3.5 prefetch	1032
6.180.3.6 start	1032
6.180.3.7 stop	1032
6.181activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller Class	
Reference	1033
6.181.1 Detailed Description	1033
6.181.2 Constructor & Destructor Documentation	1034
6.181.2.1 ConsumerControlMarshaller	1034
6.181.2.2 ~ConsumerControlMarshaller	1034
6.181.3 Member Function Documentation	1034
6.181.3.1 createObject	1034
6.181.3.2 getDataStructureType	1034
6.181.3.3 looseMarshal	1034
6.181.3.4 looseUnmarshal	1035
6.181.3.5 tightMarshal1	1035
6.181.3.6 tightMarshal2	1036
6.181.3.7 tightUnmarshal	1036
6.182activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller Class	
Reference	1037
6.182.1 Detailed Description	1037
6.182.2 Constructor & Destructor Documentation	1038
6.182.2.1 ConsumerControlMarshaller	1038
6.182.2.2 ~ConsumerControlMarshaller	1038
6.182.3 Member Function Documentation	1038
6.182.3.1 createObject	1038
6.182.3.2 getDataStructureType	1038
6.182.3.3 looseMarshal	1038
6.182.3.4 looseUnmarshal	1039
6.182.3.5 tightMarshal1	1039
6.182.3.6 tightMarshal2	1040
6.182.3.7 tightUnmarshal	1040
6.183activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller Class	
Reference	1041
6.183.1 Detailed Description	1041
6.183.2 Constructor & Destructor Documentation	1042
6.183.2.1 ConsumerControlMarshaller	1042

6.183.2.2 ~ConsumerControlMarshaller	1042
6.183.3 Member Function Documentation	1042
6.183.3.1 createObject	1042
6.183.3.2 getDataStructureType	1042
6.183.3.3 looseMarshal	1042
6.183.3.4 looseUnmarshal	1043
6.183.3.5 tightMarshal1	1043
6.183.3.6 tightMarshal2	1044
6.183.3.7 tightUnmarshal	1044
6.184activemq::commands::ConsumerId Class Reference	1045
6.184.1 Member Typedef Documentation	1046
6.184.1.1 COMPARATOR	1046
6.184.2 Constructor & Destructor Documentation	1046
6.184.2.1 ConsumerId	1046
6.184.2.2 ConsumerId	1046
6.184.2.3 ConsumerId	1046
6.184.2.4 ~ConsumerId	1046
6.184.3 Member Function Documentation	1046
6.184.3.1 cloneDataStructure	1046
6.184.3.2 compareTo	1046
6.184.3.3 copyDataStructure	1046
6.184.3.4 equals	1047
6.184.3.5 equals	1047
6.184.3.6 getConnectionId	1047
6.184.3.7 getConnectionId	1047
6.184.3.8 getDataStructureType	1047
6.184.3.9 getParentId	1048
6.184.3.10getSessionId	1048
6.184.3.11getValue	1048
6.184.3.12operator<	1048
6.184.3.13operator=	1048
6.184.3.14operator==	1048
6.184.3.15setConnectionId	1048
6.184.3.16setSessionId	1048
6.184.3.17setValue	1048
6.184.3.18toString	1048

6.184.4 Field Documentation	1048
6.184.4.1 connectionId	1048
6.184.4.2 ID_CONSUMERID	1048
6.184.4.3 sessionId	1049
6.184.4.4 value	1049
6.185activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller Class Reference	1050
6.185.1 Detailed Description	1050
6.185.2 Constructor & Destructor Documentation	1051
6.185.2.1 ConsumerIdMarshaller	1051
6.185.2.2 ~ConsumerIdMarshaller	1051
6.185.3 Member Function Documentation	1051
6.185.3.1 createObject	1051
6.185.3.2 getDataStructureType	1051
6.185.3.3 looseMarshal	1051
6.185.3.4 looseUnmarshal	1052
6.185.3.5 tightMarshal1	1052
6.185.3.6 tightMarshal2	1053
6.185.3.7 tightUnmarshal	1053
6.186activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller Class Reference	1054
6.186.1 Detailed Description	1054
6.186.2 Constructor & Destructor Documentation	1055
6.186.2.1 ConsumerIdMarshaller	1055
6.186.2.2 ~ConsumerIdMarshaller	1055
6.186.3 Member Function Documentation	1055
6.186.3.1 createObject	1055
6.186.3.2 getDataStructureType	1055
6.186.3.3 looseMarshal	1055
6.186.3.4 looseUnmarshal	1056
6.186.3.5 tightMarshal1	1056
6.186.3.6 tightMarshal2	1057
6.186.3.7 tightUnmarshal	1057
6.187activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller Class Reference	1058
6.187.1 Detailed Description	1058
6.187.2 Constructor & Destructor Documentation	1059
6.187.2.1 ConsumerIdMarshaller	1059
6.187.2.2 ~ConsumerIdMarshaller	1059

6.187.3 Member Function Documentation	1059
6.187.3.1 createObject	1059
6.187.3.2 getDataStructureType	1059
6.187.3.3 looseMarshal	1059
6.187.3.4 looseUnmarshal	1060
6.187.3.5 tightMarshal1	1060
6.187.3.6 tightMarshal2	1061
6.187.3.7 tightUnmarshal	1061
6.188activemq::commands::ConsumerInfo Class Reference	1062
6.188.1 Constructor & Destructor Documentation	1064
6.188.1.1 ConsumerInfo	1064
6.188.1.2 ConsumerInfo	1064
6.188.1.3 ~ConsumerInfo	1064
6.188.2 Member Function Documentation	1064
6.188.2.1 cloneDataStructure	1064
6.188.2.2 copyDataStructure	1064
6.188.2.3 equals	1064
6.188.2.4 getAdditionalPredicate	1065
6.188.2.5 getAdditionalPredicate	1065
6.188.2.6 getBrokerPath	1065
6.188.2.7 getBrokerPath	1065
6.188.2.8 getConsumerId	1065
6.188.2.9 getConsumerId	1065
6.188.2.10getDataStructureType	1065
6.188.2.11getDestination	1066
6.188.2.12getDestination	1066
6.188.2.13getMaximumPendingMessageLimit	1066
6.188.2.14getPrefetchSize	1066
6.188.2.15getPriority	1066
6.188.2.16getSelector	1066
6.188.2.17getSelector	1066
6.188.2.18getSubscriptionName	1066
6.188.2.19getSubscriptionName	1066
6.188.2.20isBrowser	1066
6.188.2.21isConsumerInfo	1066
6.188.2.22isDispatchAsync	1067

6.188.2.23	Exclusive	1067
6.188.2.24	NetworkSubscription	1067
6.188.2.25	NoLocal	1067
6.188.2.26	NoRangeAcks	1067
6.188.2.27	OptimizedAcknowledge	1067
6.188.2.28	Retroactive	1067
6.188.2.29	operator=	1067
6.188.2.30	setAdditionalPredicate	1067
6.188.2.31	setBrokerPath	1067
6.188.2.32	setBrowser	1067
6.188.2.33	setConsumerId	1067
6.188.2.34	setDestination	1067
6.188.2.35	setDispatchAsync	1067
6.188.2.36	setExclusive	1067
6.188.2.37	setMaximumPendingMessageLimit	1067
6.188.2.38	setNetworkSubscription	1067
6.188.2.39	setNoLocal	1067
6.188.2.40	setNoRangeAcks	1067
6.188.2.41	setOptimizedAcknowledge	1067
6.188.2.42	setPrefetchSize	1067
6.188.2.43	setPriority	1067
6.188.2.44	setRetroactive	1067
6.188.2.45	setSelector	1067
6.188.2.46	setSubscriptionName	1067
6.188.2.47	toString	1067
6.188.2.48	visit	1068
6.188.3	Field Documentation	1069
6.188.3.1	additionalPredicate	1069
6.188.3.2	brokerPath	1069
6.188.3.3	browser	1069
6.188.3.4	consumerId	1069
6.188.3.5	destination	1069
6.188.3.6	dispatchAsync	1069
6.188.3.7	exclusive	1069
6.188.3.8	ID_CONSUMERINFO	1069
6.188.3.9	maximumPendingMessageLimit	1069

6.188.3.10networkSubscription	1069
6.188.3.11noLocal	1069
6.188.3.12noRangeAcks	1069
6.188.3.13optimizedAcknowledge	1069
6.188.3.14prefetchSize	1069
6.188.3.15priority	1069
6.188.3.16retroactive	1069
6.188.3.17selector	1069
6.188.3.18subscriptionName	1069
6.189activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller Class Reference	1070
6.189.1 Detailed Description	1070
6.189.2 Constructor & Destructor Documentation	1071
6.189.2.1 ConsumerInfoMarshaller	1071
6.189.2.2 ~ConsumerInfoMarshaller	1071
6.189.3 Member Function Documentation	1071
6.189.3.1 createObject	1071
6.189.3.2 getDataStructureType	1071
6.189.3.3 looseMarshal	1071
6.189.3.4 looseUnmarshal	1072
6.189.3.5 tightMarshal1	1072
6.189.3.6 tightMarshal2	1073
6.189.3.7 tightUnmarshal	1073
6.190activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller Class Reference	1074
6.190.1 Detailed Description	1074
6.190.2 Constructor & Destructor Documentation	1075
6.190.2.1 ConsumerInfoMarshaller	1075
6.190.2.2 ~ConsumerInfoMarshaller	1075
6.190.3 Member Function Documentation	1075
6.190.3.1 createObject	1075
6.190.3.2 getDataStructureType	1075
6.190.3.3 looseMarshal	1075
6.190.3.4 looseUnmarshal	1076
6.190.3.5 tightMarshal1	1076
6.190.3.6 tightMarshal2	1077
6.190.3.7 tightUnmarshal	1077

6.191activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller Class Reference	1078
6.191.1 Detailed Description	1078
6.191.2 Constructor & Destructor Documentation	1079
6.191.2.1 ConsumerInfoMarshaller	1079
6.191.2.2 ~ConsumerInfoMarshaller	1079
6.191.3 Member Function Documentation	1079
6.191.3.1 createObject	1079
6.191.3.2 getDataStructureType	1079
6.191.3.3 looseMarshal	1079
6.191.3.4 looseUnmarshal	1080
6.191.3.5 tightMarshal1	1080
6.191.3.6 tightMarshal2	1081
6.191.3.7 tightUnmarshal	1081
6.192activemq::state::ConsumerState Class Reference	1082
6.192.1 Constructor & Destructor Documentation	1082
6.192.1.1 ConsumerState	1082
6.192.1.2 ~ConsumerState	1082
6.192.2 Member Function Documentation	1082
6.192.2.1 getInfo	1082
6.192.2.2 toString	1082
6.193activemq::commands::ControlCommand Class Reference	1083
6.193.1 Constructor & Destructor Documentation	1084
6.193.1.1 ControlCommand	1084
6.193.1.2 ControlCommand	1084
6.193.1.3 ~ControlCommand	1084
6.193.2 Member Function Documentation	1084
6.193.2.1 cloneDataStructure	1084
6.193.2.2 copyDataStructure	1084
6.193.2.3 equals	1084
6.193.2.4 getCommand	1085
6.193.2.5 getCommand	1085
6.193.2.6 getDataStructureType	1085
6.193.2.7 operator=	1085
6.193.2.8 setCommand	1085
6.193.2.9 toString	1085
6.193.2.10visit	1085

6.193.3 Field Documentation	1086
6.193.3.1 command	1086
6.193.3.2 ID_ CONTROLCOMMAND	1086
6.194 activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller Class	
Reference	1087
6.194.1 Detailed Description	1087
6.194.2 Constructor & Destructor Documentation	1088
6.194.2.1 ControlCommandMarshaller	1088
6.194.2.2 ~ControlCommandMarshaller	1088
6.194.3 Member Function Documentation	1088
6.194.3.1 createObject	1088
6.194.3.2 getDataStructureType	1088
6.194.3.3 looseMarshal	1088
6.194.3.4 looseUnmarshal	1089
6.194.3.5 tightMarshal1	1089
6.194.3.6 tightMarshal2	1090
6.194.3.7 tightUnmarshal	1090
6.195 activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller Class	
Reference	1091
6.195.1 Detailed Description	1091
6.195.2 Constructor & Destructor Documentation	1092
6.195.2.1 ControlCommandMarshaller	1092
6.195.2.2 ~ControlCommandMarshaller	1092
6.195.3 Member Function Documentation	1092
6.195.3.1 createObject	1092
6.195.3.2 getDataStructureType	1092
6.195.3.3 looseMarshal	1092
6.195.3.4 looseUnmarshal	1093
6.195.3.5 tightMarshal1	1093
6.195.3.6 tightMarshal2	1094
6.195.3.7 tightUnmarshal	1094
6.196 activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller Class	
Reference	1095
6.196.1 Detailed Description	1095
6.196.2 Constructor & Destructor Documentation	1096
6.196.2.1 ControlCommandMarshaller	1096
6.196.2.2 ~ControlCommandMarshaller	1096

6.196.3 Member Function Documentation	1096
6.196.3.1 createObject	1096
6.196.3.2 getDataStructureType	1096
6.196.3.3 looseMarshal	1096
6.196.3.4 looseUnmarshal	1097
6.196.3.5 tightMarshal1	1097
6.196.3.6 tightMarshal2	1098
6.196.3.7 tightUnmarshal	1098
6.197 decaf::util::concurrent::CountDownLatch Class Reference	1099
6.197.1 Constructor & Destructor Documentation	1099
6.197.1.1 CountDownLatch	1099
6.197.1.2 ~CountDownLatch	1099
6.197.2 Member Function Documentation	1099
6.197.2.1 await	1099
6.197.2.2 await	1100
6.197.2.3 countDown	1100
6.197.2.4 getCount	1100
6.198 activemq::commands::DataArrayResponse Class Reference	1101
6.198.1 Constructor & Destructor Documentation	1102
6.198.1.1 DataArrayResponse	1102
6.198.1.2 DataArrayResponse	1102
6.198.1.3 ~DataArrayResponse	1102
6.198.2 Member Function Documentation	1102
6.198.2.1 cloneDataStructure	1102
6.198.2.2 copyDataStructure	1102
6.198.2.3 equals	1102
6.198.2.4 getData	1103
6.198.2.5 getData	1103
6.198.2.6 getDataStructureType	1103
6.198.2.7 operator=	1103
6.198.2.8 setData	1103
6.198.2.9 toString	1103
6.198.3 Field Documentation	1103
6.198.3.1 data	1103
6.198.3.2 ID_DATAARRAYRESPONSE	1103
6.199 activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller Class Reference	1104

6.199.1 Detailed Description	1104
6.199.2 Constructor & Destructor Documentation	1105
6.199.2.1 DataArrayResponseMarshaller	1105
6.199.2.2 ~DataArrayResponseMarshaller	1105
6.199.3 Member Function Documentation	1105
6.199.3.1 createObject	1105
6.199.3.2 getDataStructureType	1105
6.199.3.3 looseMarshal	1105
6.199.3.4 looseUnmarshal	1106
6.199.3.5 tightMarshal1	1106
6.199.3.6 tightMarshal2	1107
6.199.3.7 tightUnmarshal	1107
6.200activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller Class	
Reference	1108
6.200.1 Detailed Description	1108
6.200.2 Constructor & Destructor Documentation	1109
6.200.2.1 DataArrayResponseMarshaller	1109
6.200.2.2 ~DataArrayResponseMarshaller	1109
6.200.3 Member Function Documentation	1109
6.200.3.1 createObject	1109
6.200.3.2 getDataStructureType	1109
6.200.3.3 looseMarshal	1109
6.200.3.4 looseUnmarshal	1110
6.200.3.5 tightMarshal1	1110
6.200.3.6 tightMarshal2	1111
6.200.3.7 tightUnmarshal	1111
6.201activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller Class	
Reference	1112
6.201.1 Detailed Description	1112
6.201.2 Constructor & Destructor Documentation	1113
6.201.2.1 DataArrayResponseMarshaller	1113
6.201.2.2 ~DataArrayResponseMarshaller	1113
6.201.3 Member Function Documentation	1113
6.201.3.1 createObject	1113
6.201.3.2 getDataStructureType	1113
6.201.3.3 looseMarshal	1113
6.201.3.4 looseUnmarshal	1114

6.201.3.5 tightMarshal1	1114
6.201.3.6 tightMarshal2	1115
6.201.3.7 tightUnmarshal	1115
6.202decaf::io::DataInputStream Class Reference	1116
6.202.1 Detailed Description	1117
6.202.2 Constructor & Destructor Documentation	1117
6.202.2.1 DataInputStream	1117
6.202.2.2 ~DataInputStream	1118
6.202.3 Member Function Documentation	1118
6.202.3.1 read	1118
6.202.3.2 read	1119
6.202.3.3 readBoolean	1119
6.202.3.4 readByte	1119
6.202.3.5 readChar	1120
6.202.3.6 readDouble	1120
6.202.3.7 readFloat	1120
6.202.3.8 readFully	1121
6.202.3.9 readFully	1121
6.202.3.10readInt	1122
6.202.3.11readLong	1122
6.202.3.12readShort	1122
6.202.3.13readString	1123
6.202.3.14readUnsignedByte	1123
6.202.3.15readUnsignedShort	1123
6.202.3.16readUTF	1123
6.202.3.17skip	1124
6.203decaf::io::DataOutputStream Class Reference	1125
6.203.1 Detailed Description	1126
6.203.2 Constructor & Destructor Documentation	1126
6.203.2.1 DataOutputStream	1126
6.203.2.2 ~DataOutputStream	1127
6.203.3 Member Function Documentation	1127
6.203.3.1 size	1127
6.203.3.2 write	1127
6.203.3.3 write	1127
6.203.3.4 write	1127

6.203.3.5 writeBoolean	1128
6.203.3.6 writeByte	1128
6.203.3.7 writeBytes	1128
6.203.3.8 writeChar	1129
6.203.3.9 writeChars	1129
6.203.3.10 writeDouble	1129
6.203.3.11 writeFloat	1129
6.203.3.12 writeInt	1130
6.203.3.13 writeLong	1130
6.203.3.14 writeShort	1130
6.203.3.15 writeUnsignedShort	1131
6.203.3.16 writeUTF	1131
6.203.4 Field Documentation	1131
6.203.4.1 buffer	1131
6.203.4.2 written	1131
6.204 activemq::commands::DataResponse Class Reference	1132
6.204.1 Constructor & Destructor Documentation	1133
6.204.1.1 DataResponse	1133
6.204.1.2 DataResponse	1133
6.204.1.3 ~DataResponse	1133
6.204.2 Member Function Documentation	1133
6.204.2.1 cloneDataStructure	1133
6.204.2.2 copyDataStructure	1133
6.204.2.3 equals	1133
6.204.2.4 getData	1134
6.204.2.5 getData	1134
6.204.2.6 getDataStructureType	1134
6.204.2.7 operator=	1134
6.204.2.8 setData	1134
6.204.2.9 toString	1134
6.204.3 Field Documentation	1134
6.204.3.1 data	1134
6.204.3.2 ID_DATARESPONSE	1134
6.205 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller Class Reference	1135
6.205.1 Detailed Description	1135
6.205.2 Constructor & Destructor Documentation	1136

6.205.2.1 DataResponseMarshaller	1136
6.205.2.2 ~DataResponseMarshaller	1136
6.205.3 Member Function Documentation	1136
6.205.3.1 createObject	1136
6.205.3.2 getDataStructureType	1136
6.205.3.3 looseMarshal	1136
6.205.3.4 looseUnmarshal	1137
6.205.3.5 tightMarshal1	1137
6.205.3.6 tightMarshal2	1138
6.205.3.7 tightUnmarshal	1138
6.206activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller Class Reference	1139
6.206.1 Detailed Description	1139
6.206.2 Constructor & Destructor Documentation	1140
6.206.2.1 DataResponseMarshaller	1140
6.206.2.2 ~DataResponseMarshaller	1140
6.206.3 Member Function Documentation	1140
6.206.3.1 createObject	1140
6.206.3.2 getDataStructureType	1140
6.206.3.3 looseMarshal	1140
6.206.3.4 looseUnmarshal	1141
6.206.3.5 tightMarshal1	1141
6.206.3.6 tightMarshal2	1142
6.206.3.7 tightUnmarshal	1142
6.207activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller Class Reference	1143
6.207.1 Detailed Description	1143
6.207.2 Constructor & Destructor Documentation	1144
6.207.2.1 DataResponseMarshaller	1144
6.207.2.2 ~DataResponseMarshaller	1144
6.207.3 Member Function Documentation	1144
6.207.3.1 createObject	1144
6.207.3.2 getDataStructureType	1144
6.207.3.3 looseMarshal	1144
6.207.3.4 looseUnmarshal	1145
6.207.3.5 tightMarshal1	1145
6.207.3.6 tightMarshal2	1146

6.207.3.7 tightUnmarshal	1146
6.208activemq::wireformat::openwire::marshal::DataStreamMarshaller Class Reference	1147
6.208.1 Detailed Description	1147
6.208.2 Constructor & Destructor Documentation	1148
6.208.2.1 ~DataStreamMarshaller	1148
6.208.3 Member Function Documentation	1148
6.208.3.1 createObject	1148
6.208.3.2 getDataStructureType	1151
6.208.3.3 looseMarshal	1154
6.208.3.4 looseUnmarshal	1158
6.208.3.5 tightMarshal1	1162
6.208.3.6 tightMarshal2	1166
6.208.3.7 tightUnmarshal	1169
6.209activemq::commands::DataStructure Class Reference	1174
6.209.1 Constructor & Destructor Documentation	1174
6.209.1.1 ~DataStructure	1174
6.209.2 Member Function Documentation	1174
6.209.2.1 cloneDataStructure	1174
6.209.2.2 copyDataStructure	1175
6.209.2.3 equals	1176
6.209.2.4 getDataStructureType	1176
6.209.2.5 toString	1177
6.210decaf::util::Date Class Reference	1179
6.210.1 Detailed Description	1179
6.210.2 Constructor & Destructor Documentation	1180
6.210.2.1 Date	1180
6.210.2.2 Date	1180
6.210.2.3 Date	1180
6.210.2.4 ~Date	1180
6.210.3 Member Function Documentation	1180
6.210.3.1 after	1180
6.210.3.2 before	1180
6.210.3.3 equals	1181
6.210.3.4 getCurrentTimeMilliseconds	1181
6.210.3.5 getTime	1181
6.210.3.6 operator=	1181

6.210.3.7 setTime	1181
6.211decaf::internal::DecafRuntime Class Reference	1182
6.211.1 Detailed Description	1182
6.211.2 Constructor & Destructor Documentation	1182
6.211.2.1 DecafRuntime	1182
6.211.2.2 ~DecafRuntime	1182
6.211.3 Member Function Documentation	1182
6.211.3.1 getGlobalPool	1182
6.212activemq::threads::DedicatedTaskRunner Class Reference	1183
6.212.1 Constructor & Destructor Documentation	1183
6.212.1.1 DedicatedTaskRunner	1183
6.212.1.2 ~DedicatedTaskRunner	1183
6.212.2 Member Function Documentation	1183
6.212.2.1 run	1183
6.212.2.2 shutdown	1184
6.212.2.3 shutdown	1184
6.212.2.4 wakeup	1184
6.213activemq::transport::DefaultTransportListener Class Reference	1185
6.213.1 Constructor & Destructor Documentation	1185
6.213.1.1 ~DefaultTransportListener	1185
6.213.2 Member Function Documentation	1185
6.213.2.1 onCommand	1185
6.213.2.2 onException	1185
6.213.2.3 transportInterrupted	1186
6.213.2.4 transportResumed	1186
6.214decaf::util::concurrent::Delayed Class Reference	1187
6.214.1 Detailed Description	1187
6.214.2 Constructor & Destructor Documentation	1187
6.214.2.1 ~Delayed	1187
6.214.3 Member Function Documentation	1187
6.214.3.1 getDelay	1187
6.215cms::DeliveryMode Class Reference	1188
6.215.1 Detailed Description	1188
6.215.2 Constructor & Destructor Documentation	1188
6.215.2.1 ~DeliveryMode	1188
6.215.3 Field Documentation	1188

6.215.3.1 NON_PERSISTENT	1188
6.215.3.2 PERSISTENT	1188
6.216cms::Destination Class Reference	1190
6.216.1 Detailed Description	1190
6.216.2 Member Enumeration Documentation	1190
6.216.2.1 DestinationType	1190
6.216.3 Constructor & Destructor Documentation	1191
6.216.3.1 ~Destination	1191
6.216.4 Member Function Documentation	1191
6.216.4.1 clone	1191
6.216.4.2 copy	1191
6.216.4.3 getCMSProperties	1191
6.216.4.4 getDestinationType	1191
6.217activemq::commands::ActiveMQDestination::DestinationFilter Struct Reference . .	1193
6.217.1 Field Documentation	1193
6.217.1.1 ANY_CHILD	1193
6.217.1.2 ANY_DESCENDENT	1193
6.218activemq::commands::DestinationInfo Class Reference	1194
6.218.1 Constructor & Destructor Documentation	1195
6.218.1.1 DestinationInfo	1195
6.218.1.2 DestinationInfo	1195
6.218.1.3 ~DestinationInfo	1195
6.218.2 Member Function Documentation	1195
6.218.2.1 cloneDataStructure	1195
6.218.2.2 copyDataStructure	1195
6.218.2.3 equals	1196
6.218.2.4 getBrokerPath	1196
6.218.2.5 getBrokerPath	1196
6.218.2.6 getConnectionId	1196
6.218.2.7 getConnectionId	1196
6.218.2.8 getDataStructureType	1196
6.218.2.9 getDestination	1197
6.218.2.10getDestination	1197
6.218.2.11getOperationType	1197
6.218.2.12getTimeout	1197
6.218.2.13operator=	1197

6.218.2.14	setBrokerPath	1197
6.218.2.15	setConnectionId	1197
6.218.2.16	setDestination	1197
6.218.2.17	setOperationType	1197
6.218.2.18	setTimeout	1197
6.218.2.19	toString	1197
6.218.2.20	visit	1197
6.218.3	Field Documentation	1198
6.218.3.1	brokerPath	1198
6.218.3.2	connectionId	1198
6.218.3.3	destination	1198
6.218.3.4	ID_DESTINATIONINFO	1198
6.218.3.5	operationType	1198
6.218.3.6	timeout	1198
6.219	activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller Class Reference	1199
6.219.1	Detailed Description	1199
6.219.2	Constructor & Destructor Documentation	1200
6.219.2.1	DestinationInfoMarshaller	1200
6.219.2.2	~DestinationInfoMarshaller	1200
6.219.3	Member Function Documentation	1200
6.219.3.1	createObject	1200
6.219.3.2	getDataStructureType	1200
6.219.3.3	looseMarshal	1200
6.219.3.4	looseUnmarshal	1201
6.219.3.5	tightMarshal1	1201
6.219.3.6	tightMarshal2	1202
6.219.3.7	tightUnmarshal	1202
6.220	activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller Class Reference	1203
6.220.1	Detailed Description	1203
6.220.2	Constructor & Destructor Documentation	1204
6.220.2.1	DestinationInfoMarshaller	1204
6.220.2.2	~DestinationInfoMarshaller	1204
6.220.3	Member Function Documentation	1204
6.220.3.1	createObject	1204
6.220.3.2	getDataStructureType	1204

6.220.3.3 looseMarshal	1204
6.220.3.4 looseUnmarshal	1205
6.220.3.5 tightMarshal1	1205
6.220.3.6 tightMarshal2	1206
6.220.3.7 tightUnmarshal	1206
6.221activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller Class Reference	1207
6.221.1 Detailed Description	1207
6.221.2 Constructor & Destructor Documentation	1208
6.221.2.1 DestinationInfoMarshaller	1208
6.221.2.2 ~DestinationInfoMarshaller	1208
6.221.3 Member Function Documentation	1208
6.221.3.1 createObject	1208
6.221.3.2 getDataStructureType	1208
6.221.3.3 looseMarshal	1208
6.221.3.4 looseUnmarshal	1209
6.221.3.5 tightMarshal1	1209
6.221.3.6 tightMarshal2	1210
6.221.3.7 tightUnmarshal	1210
6.222activemq::cmsutil::DestinationResolver Class Reference	1211
6.222.1 Detailed Description	1211
6.222.2 Constructor & Destructor Documentation	1211
6.222.2.1 ~DestinationResolver	1211
6.222.3 Member Function Documentation	1211
6.222.3.1 destroy	1211
6.222.3.2 init	1211
6.222.3.3 resolveDestinationName	1212
6.223activemq::commands::DiscoveryEvent Class Reference	1213
6.223.1 Constructor & Destructor Documentation	1214
6.223.1.1 DiscoveryEvent	1214
6.223.1.2 DiscoveryEvent	1214
6.223.1.3 ~DiscoveryEvent	1214
6.223.2 Member Function Documentation	1214
6.223.2.1 cloneDataStructure	1214
6.223.2.2 copyDataStructure	1214
6.223.2.3 equals	1214
6.223.2.4 getBrokerName	1215

6.223.2.5	getBrokerName	1215
6.223.2.6	getDataStructureType	1215
6.223.2.7	getServiceName	1215
6.223.2.8	getServiceName	1215
6.223.2.9	operator=	1215
6.223.2.10	setBrokerName	1215
6.223.2.11	setServiceName	1215
6.223.2.12	toString	1215
6.223.3	Field Documentation	1216
6.223.3.1	brokerName	1216
6.223.3.2	ID_DISCOVERYEVENT	1216
6.223.3.3	serviceName	1216
6.224	activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller Class Reference	1217
6.224.1	Detailed Description	1217
6.224.2	Constructor & Destructor Documentation	1218
6.224.2.1	DiscoveryEventMarshaller	1218
6.224.2.2	~DiscoveryEventMarshaller	1218
6.224.3	Member Function Documentation	1218
6.224.3.1	createObject	1218
6.224.3.2	getDataStructureType	1218
6.224.3.3	looseMarshal	1218
6.224.3.4	looseUnmarshal	1219
6.224.3.5	tightMarshal1	1219
6.224.3.6	tightMarshal2	1220
6.224.3.7	tightUnmarshal	1220
6.225	activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller Class Reference	1221
6.225.1	Detailed Description	1221
6.225.2	Constructor & Destructor Documentation	1222
6.225.2.1	DiscoveryEventMarshaller	1222
6.225.2.2	~DiscoveryEventMarshaller	1222
6.225.3	Member Function Documentation	1222
6.225.3.1	createObject	1222
6.225.3.2	getDataStructureType	1222
6.225.3.3	looseMarshal	1222
6.225.3.4	looseUnmarshal	1223

6.225.3.5 tightMarshal1	1223
6.225.3.6 tightMarshal2	1224
6.225.3.7 tightUnmarshal	1224
6.226activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller Class Reference	1225
6.226.1 Detailed Description	1225
6.226.2 Constructor & Destructor Documentation	1226
6.226.2.1 DiscoveryEventMarshaller	1226
6.226.2.2 ~DiscoveryEventMarshaller	1226
6.226.3 Member Function Documentation	1226
6.226.3.1 createObject	1226
6.226.3.2 getDataStructureType	1226
6.226.3.3 looseMarshal	1226
6.226.3.4 looseUnmarshal	1227
6.226.3.5 tightMarshal1	1227
6.226.3.6 tightMarshal2	1228
6.226.3.7 tightUnmarshal	1228
6.227activemq::core::DispatchData Class Reference	1229
6.227.1 Detailed Description	1229
6.227.2 Constructor & Destructor Documentation	1229
6.227.2.1 DispatchData	1229
6.227.2.2 DispatchData	1229
6.227.3 Member Function Documentation	1229
6.227.3.1 getConsumerId	1229
6.227.3.2 getMessage	1229
6.228activemq::core::Dispatcher Class Reference	1230
6.228.1 Detailed Description	1230
6.228.2 Constructor & Destructor Documentation	1230
6.228.2.1 ~Dispatcher	1230
6.228.3 Member Function Documentation	1230
6.228.3.1 dispatch	1230
6.229decaf::lang::Double Class Reference	1231
6.229.1 Constructor & Destructor Documentation	1233
6.229.1.1 Double	1233
6.229.1.2 Double	1233
6.229.1.3 ~Double	1233
6.229.2 Member Function Documentation	1233

6.229.2.1 byteValue	1233
6.229.2.2 compare	1233
6.229.2.3 compareTo	1234
6.229.2.4 compareTo	1234
6.229.2.5 doubleToLongBits	1234
6.229.2.6 doubleToRawLongBits	1235
6.229.2.7 doubleValue	1235
6.229.2.8 equals	1236
6.229.2.9 equals	1236
6.229.2.10 float Value	1236
6.229.2.11 int Value	1236
6.229.2.12 isInfinite	1236
6.229.2.13 isInfinite	1237
6.229.2.14 isNaN	1237
6.229.2.15 isNaN	1237
6.229.2.16 longBitsToDouble	1237
6.229.2.17 long Value	1237
6.229.2.18 operator<	1238
6.229.2.19 operator<	1238
6.229.2.20 operator==	1238
6.229.2.21 operator==	1238
6.229.2.22 parseDouble	1239
6.229.2.23 short Value	1239
6.229.2.24 toHexString	1239
6.229.2.25 toString	1240
6.229.2.26 toString	1240
6.229.2.27 valueOf	1240
6.229.2.28 valueOf	1241
6.229.3 Field Documentation	1241
6.229.3.1 MAX_VALUE	1241
6.229.3.2 MIN_VALUE	1241
6.229.3.3 NaN	1241
6.229.3.4 NEGATIVE_INFINITY	1241
6.229.3.5 POSITIVE_INFINITY	1241
6.229.3.6 SIZE	1241
6.230 decaf::internal::nio::DoubleArrayBuffer Class Reference	1242

6.230.1 Constructor & Destructor Documentation	1243
6.230.1.1 DoubleArrayBuffer	1243
6.230.1.2 DoubleArrayBuffer	1243
6.230.1.3 DoubleArrayBuffer	1244
6.230.1.4 DoubleArrayBuffer	1244
6.230.1.5 ~DoubleArrayBuffer	1244
6.230.2 Member Function Documentation	1244
6.230.2.1 array	1244
6.230.2.2 arrayOffset	1245
6.230.2.3 asReadOnlyBuffer	1245
6.230.2.4 compact	1246
6.230.2.5 duplicate	1246
6.230.2.6 get	1246
6.230.2.7 get	1247
6.230.2.8 hasArray	1247
6.230.2.9 isReadOnly	1247
6.230.2.10put	1247
6.230.2.11put	1248
6.230.2.12setReadOnly	1248
6.230.2.13slice	1248
6.231decaf::nio::DoubleBuffer Class Reference	1250
6.231.1 Detailed Description	1252
6.231.2 Constructor & Destructor Documentation	1252
6.231.2.1 DoubleBuffer	1252
6.231.2.2 ~DoubleBuffer	1252
6.231.3 Member Function Documentation	1252
6.231.3.1 allocate	1252
6.231.3.2 array	1253
6.231.3.3 arrayOffset	1253
6.231.3.4 asReadOnlyBuffer	1253
6.231.3.5 compact	1254
6.231.3.6 compareTo	1254
6.231.3.7 duplicate	1254
6.231.3.8 equals	1255
6.231.3.9 get	1255
6.231.3.10get	1255

6.231.3.11	get	1256
6.231.3.12	get	1256
6.231.3.13	hasArray	1256
6.231.3.14	operator<	1256
6.231.3.15	operator==	1257
6.231.3.16	put	1257
6.231.3.17	put	1257
6.231.3.18	put	1258
6.231.3.19	put	1258
6.231.3.20	put	1259
6.231.3.21	slice	1259
6.231.3.22	toString	1259
6.231.3.23	wrap	1260
6.231.3.24	wrap	1260
6.232	decaf::lang::DYNAMIC_CAST_TOKEN Struct Reference	1261
6.233	activemq::cmsutil::DynamicDestinationResolver Class Reference	1262
6.233.1	Detailed Description	1262
6.233.2	Constructor & Destructor Documentation	1262
6.233.2.1	~DynamicDestinationResolver	1262
6.233.3	Member Function Documentation	1262
6.233.3.1	destroy	1262
6.233.3.2	init	1263
6.233.3.3	resolveDestinationName	1263
6.234	decaf::util::Map< K, V, COMPARATOR >::Entry Class Reference	1264
6.234.1	Constructor & Destructor Documentation	1264
6.234.1.1	Entry	1264
6.234.1.2	~Entry	1264
6.234.2	Member Function Documentation	1264
6.234.2.1	getKey	1264
6.234.2.2	getValue	1264
6.234.2.3	setValue	1264
6.235	decaf::io::EOFException Class Reference	1265
6.235.1	Constructor & Destructor Documentation	1265
6.235.1.1	EOFException	1265
6.235.1.2	EOFException	1265
6.235.1.3	EOFException	1266

6.235.1.4 EOFException	1266
6.235.1.5 EOFException	1266
6.235.1.6 EOFException	1266
6.235.1.7 ~EOFException	1267
6.235.2 Member Function Documentation	1267
6.235.2.1 clone	1267
6.236decaf::lang::Exception Class Reference	1268
6.236.1 Constructor & Destructor Documentation	1269
6.236.1.1 Exception	1269
6.236.1.2 Exception	1270
6.236.1.3 Exception	1270
6.236.1.4 Exception	1270
6.236.1.5 Exception	1270
6.236.1.6 ~Exception	1271
6.236.2 Member Function Documentation	1271
6.236.2.1 buildMessage	1271
6.236.2.2 clone	1271
6.236.2.3 getCause	1272
6.236.2.4 getMessage	1272
6.236.2.5 getStackTrace	1272
6.236.2.6 getStackTraceString	1272
6.236.2.7 initCause	1272
6.236.2.8 operator=	1273
6.236.2.9 printStackTrace	1273
6.236.2.10printStackTrace	1273
6.236.2.11setMark	1273
6.236.2.12setMessage	1273
6.236.2.13setStackTrace	1274
6.236.2.14what	1274
6.236.3 Field Documentation	1274
6.236.3.1 cause	1274
6.236.3.2 message	1274
6.236.3.3 stackTrace	1274
6.237cms::ExceptionListener Class Reference	1275
6.237.1 Detailed Description	1275
6.237.2 Constructor & Destructor Documentation	1275

6.237.2.1 ~ExceptionListener	1275
6.237.3 Member Function Documentation	1275
6.237.3.1 onException	1275
6.238activemq::commands::ExceptionResponse Class Reference	1276
6.238.1 Constructor & Destructor Documentation	1277
6.238.1.1 ExceptionResponse	1277
6.238.1.2 ExceptionResponse	1277
6.238.1.3 ~ExceptionResponse	1277
6.238.2 Member Function Documentation	1277
6.238.2.1 cloneDataStructure	1277
6.238.2.2 copyDataStructure	1277
6.238.2.3 equals	1277
6.238.2.4 getDataStructureType	1277
6.238.2.5 getException	1278
6.238.2.6 getException	1278
6.238.2.7 operator=	1278
6.238.2.8 setException	1278
6.238.2.9 toString	1278
6.238.3 Field Documentation	1278
6.238.3.1 exception	1278
6.238.3.2 ID_EXCEPTIONRESPONSE	1278
6.239activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller Class Reference	1279
6.239.1 Detailed Description	1279
6.239.2 Constructor & Destructor Documentation	1280
6.239.2.1 ExceptionResponseMarshaller	1280
6.239.2.2 ~ExceptionResponseMarshaller	1280
6.239.3 Member Function Documentation	1280
6.239.3.1 createObject	1280
6.239.3.2 getDataStructureType	1280
6.239.3.3 looseMarshal	1280
6.239.3.4 looseUnmarshal	1281
6.239.3.5 tightMarshal1	1281
6.239.3.6 tightMarshal2	1282
6.239.3.7 tightUnmarshal	1282
6.240activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller Class Reference	1283

6.240.1 Detailed Description	1283
6.240.2 Constructor & Destructor Documentation	1284
6.240.2.1 ExceptionResponseMarshaller	1284
6.240.2.2 ~ExceptionResponseMarshaller	1284
6.240.3 Member Function Documentation	1284
6.240.3.1 createObject	1284
6.240.3.2 getDataStructureType	1284
6.240.3.3 looseMarshal	1284
6.240.3.4 looseUnmarshal	1285
6.240.3.5 tightMarshal1	1285
6.240.3.6 tightMarshal2	1286
6.240.3.7 tightUnmarshal	1286
6.241 activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller Class Reference	1287
6.241.1 Detailed Description	1287
6.241.2 Constructor & Destructor Documentation	1288
6.241.2.1 ExceptionResponseMarshaller	1288
6.241.2.2 ~ExceptionResponseMarshaller	1288
6.241.3 Member Function Documentation	1288
6.241.3.1 createObject	1288
6.241.3.2 getDataStructureType	1288
6.241.3.3 looseMarshal	1288
6.241.3.4 looseUnmarshal	1289
6.241.3.5 tightMarshal1	1289
6.241.3.6 tightMarshal2	1290
6.241.3.7 tightUnmarshal	1290
6.242 decaf::util::concurrent::ExecutionException Class Reference	1291
6.242.1 Constructor & Destructor Documentation	1291
6.242.1.1 ExecutionException	1291
6.242.1.2 ExecutionException	1291
6.242.1.3 ExecutionException	1292
6.242.1.4 ExecutionException	1292
6.242.1.5 ExecutionException	1292
6.242.1.6 ExecutionException	1292
6.242.1.7 ~ExecutionException	1293
6.242.2 Member Function Documentation	1293
6.242.2.1 clone	1293

6.243	decaf::util::concurrent::Executor Class Reference	1294
6.243.1	Detailed Description	1294
6.243.2	Constructor & Destructor Documentation	1295
6.243.2.1	~Executor	1295
6.243.3	Member Function Documentation	1295
6.243.3.1	execute	1295
6.244	activemq::transport::failover::FailoverTransport Class Reference	1296
6.244.1	Constructor & Destructor Documentation	1298
6.244.1.1	FailoverTransport	1298
6.244.1.2	~FailoverTransport	1298
6.244.2	Member Function Documentation	1298
6.244.2.1	add	1298
6.244.2.2	addURI	1299
6.244.2.3	close	1299
6.244.2.4	getBackOffMultiplier	1300
6.244.2.5	getBackupPoolSize	1300
6.244.2.6	getInitialReconnectDelay	1300
6.244.2.7	getMaxCacheSize	1300
6.244.2.8	getMaxReconnectAttempts	1300
6.244.2.9	getMaxReconnectDelay	1300
6.244.2.10	getReconnectDelay	1300
6.244.2.11	getRemoteAddress	1300
6.244.2.12	getTimeout	1300
6.244.2.13	getTransportListener	1300
6.244.2.14	handleTransportFailure	1301
6.244.2.15	isBackup	1301
6.244.2.16	isClosed	1301
6.244.2.17	isConnected	1301
6.244.2.18	isFaultTolerant	1301
6.244.2.19	isInitialized	1302
6.244.2.20	isPending	1302
6.244.2.21	isRandomize	1302
6.244.2.22	isTrackMessages	1302
6.244.2.23	isUseExponentialBackOff	1302
6.244.2.24	iterate	1302
6.244.2.25	narrow	1302

6.244.2.26	neway	1303
6.244.2.27	reconnect	1303
6.244.2.28	reconnect	1303
6.244.2.29	removeURI	1303
6.244.2.30	request	1304
6.244.2.31	request	1304
6.244.2.32	restoreTransport	1304
6.244.2.33	setBackOffMultiplier	1305
6.244.2.34	setBackup	1305
6.244.2.35	setBackupPoolSize	1305
6.244.2.36	setInitialized	1305
6.244.2.37	setInitialReconnectDelay	1306
6.244.2.38	setMaxCacheSize	1306
6.244.2.39	setMaxReconnectAttempts	1306
6.244.2.40	setMaxReconnectDelay	1306
6.244.2.41	setRandomize	1306
6.244.2.42	setReconnectDelay	1306
6.244.2.43	setTimeout	1306
6.244.2.44	setTrackMessages	1306
6.244.2.45	setTransportListener	1306
6.244.2.46	setUseExponentialBackOff	1306
6.244.2.47	setWireFormat	1306
6.244.2.48	start	1307
6.244.3	Friends And Related Function Documentation	1307
6.244.3.1	FailoverTransportListener	1307
6.245	activemq::transport::failover::FailoverTransportFactory Class Reference	1308
6.245.1	Detailed Description	1308
6.245.2	Constructor & Destructor Documentation	1309
6.245.2.1	~FailoverTransportFactory	1309
6.245.3	Member Function Documentation	1309
6.245.3.1	create	1309
6.245.3.2	createComposite	1309
6.245.3.3	doCreateComposite	1309
6.246	activemq::transport::failover::FailoverTransportListener Class Reference	1311
6.246.1	Detailed Description	1311
6.246.2	Constructor & Destructor Documentation	1312

6.246.2.1 FailoverTransportListener	1312
6.246.2.2 ~FailoverTransportListener	1312
6.246.3 Member Function Documentation	1312
6.246.3.1 onCommand	1312
6.246.3.2 onException	1312
6.246.3.3 transportInterrupted	1312
6.246.3.4 transportResumed	1312
6.247decaf::util::logging::Filter Class Reference	1314
6.247.1 Detailed Description	1314
6.247.2 Constructor & Destructor Documentation	1314
6.247.2.1 ~Filter	1314
6.247.3 Member Function Documentation	1314
6.247.3.1 isLoggable	1314
6.248decaf::io::FilterInputStream Class Reference	1315
6.248.1 Detailed Description	1316
6.248.2 Constructor & Destructor Documentation	1316
6.248.2.1 FilterInputStream	1316
6.248.2.2 ~FilterInputStream	1316
6.248.3 Member Function Documentation	1317
6.248.3.1 available	1317
6.248.3.2 close	1317
6.248.3.3 isClosed	1317
6.248.3.4 lock	1317
6.248.3.5 mark	1318
6.248.3.6 markSupported	1318
6.248.3.7 notify	1318
6.248.3.8 notifyAll	1318
6.248.3.9 read	1319
6.248.3.10read	1319
6.248.3.11reset	1320
6.248.3.12skip	1320
6.248.3.13unlock	1321
6.248.3.14wait	1321
6.248.3.15wait	1321
6.248.4 Field Documentation	1321
6.248.4.1 closed	1321

6.248.4.2 inputStream	1321
6.248.4.3 mutex	1321
6.248.4.4 own	1321
6.249decaf::io::FilterOutputStream Class Reference	1322
6.249.1 Detailed Description	1323
6.249.2 Constructor & Destructor Documentation	1323
6.249.2.1 FilterOutputStream	1323
6.249.2.2 ~FilterOutputStream	1323
6.249.3 Member Function Documentation	1324
6.249.3.1 close	1324
6.249.3.2 flush	1324
6.249.3.3 isClosed	1324
6.249.3.4 lock	1324
6.249.3.5 notify	1325
6.249.3.6 notifyAll	1325
6.249.3.7 unlock	1325
6.249.3.8 wait	1325
6.249.3.9 wait	1326
6.249.3.10write	1326
6.249.3.11write	1326
6.249.3.12write	1327
6.249.4 Field Documentation	1327
6.249.4.1 closed	1327
6.249.4.2 mutex	1327
6.249.4.3 outputStream	1327
6.249.4.4 own	1327
6.250decaf::lang::Float Class Reference	1328
6.250.1 Constructor & Destructor Documentation	1330
6.250.1.1 Float	1330
6.250.1.2 Float	1330
6.250.1.3 Float	1330
6.250.1.4 ~Float	1330
6.250.2 Member Function Documentation	1330
6.250.2.1 byteValue	1330
6.250.2.2 compare	1331
6.250.2.3 compareTo	1331

6.250.2.4	compareTo	1331
6.250.2.5	doubleValue	1331
6.250.2.6	equals	1332
6.250.2.7	equals	1332
6.250.2.8	floatToIntBits	1332
6.250.2.9	floatToRawIntBits	1332
6.250.2.10	floatValue	1333
6.250.2.11	intBitsToFloat	1333
6.250.2.12	intValue	1333
6.250.2.13	isInfinite	1334
6.250.2.14	isInfinite	1334
6.250.2.15	isNaN	1334
6.250.2.16	isNaN	1334
6.250.2.17	longValue	1334
6.250.2.18	operator<	1334
6.250.2.19	operator<	1335
6.250.2.20	operator==	1335
6.250.2.21	operator==	1335
6.250.2.22	parseFloat	1335
6.250.2.23	shortValue	1336
6.250.2.24	toHexString	1336
6.250.2.25	toString	1337
6.250.2.26	toString	1337
6.250.2.27	valueOf	1337
6.250.2.28	valueOf	1338
6.250.3	Field Documentation	1338
6.250.3.1	MAX_VALUE	1338
6.250.3.2	MIN_VALUE	1338
6.250.3.3	NaN	1338
6.250.3.4	NEGATIVE_INFINITY	1338
6.250.3.5	POSITIVE_INFINITY	1338
6.250.3.6	SIZE	1338
6.251	decaf::internal::nio::FloatArrayBuffer Class Reference	1339
6.251.1	Constructor & Destructor Documentation	1340
6.251.1.1	FloatArrayBuffer	1340
6.251.1.2	FloatArrayBuffer	1340

6.251.1.3 FloatArrayBuffer	1341
6.251.1.4 FloatArrayBuffer	1341
6.251.1.5 ~FloatArrayBuffer	1341
6.251.2 Member Function Documentation	1341
6.251.2.1 array	1341
6.251.2.2 arrayOffset	1342
6.251.2.3 asReadOnlyBuffer	1342
6.251.2.4 compact	1342
6.251.2.5 duplicate	1343
6.251.2.6 get	1343
6.251.2.7 get	1343
6.251.2.8 hasArray	1344
6.251.2.9 isReadOnly	1344
6.251.2.10put	1344
6.251.2.11put	1345
6.251.2.12setReadOnly	1345
6.251.2.13slice	1345
6.252decaf::nio::FloatBuffer Class Reference	1346
6.252.1 Detailed Description	1348
6.252.2 Constructor & Destructor Documentation	1348
6.252.2.1 FloatBuffer	1348
6.252.2.2 ~FloatBuffer	1348
6.252.3 Member Function Documentation	1348
6.252.3.1 allocate	1348
6.252.3.2 array	1348
6.252.3.3 arrayOffset	1349
6.252.3.4 asReadOnlyBuffer	1349
6.252.3.5 compact	1349
6.252.3.6 compareTo	1350
6.252.3.7 duplicate	1350
6.252.3.8 equals	1350
6.252.3.9 get	1351
6.252.3.10get	1351
6.252.3.11get	1351
6.252.3.12get	1352
6.252.3.13hasArray	1352

6.252.3.14	operator<	1352
6.252.3.15	operator==	1353
6.252.3.16	put	1353
6.252.3.17	put	1353
6.252.3.18	put	1354
6.252.3.19	put	1354
6.252.3.20	put	1354
6.252.3.21	slice	1355
6.252.3.22	toString	1355
6.252.3.23	wrap	1355
6.252.3.24	wrap	1356
6.253	activemq::commands::FlushCommand Class Reference	1357
6.253.1	Constructor & Destructor Documentation	1358
6.253.1.1	FlushCommand	1358
6.253.1.2	FlushCommand	1358
6.253.1.3	~FlushCommand	1358
6.253.2	Member Function Documentation	1358
6.253.2.1	cloneDataStructure	1358
6.253.2.2	copyDataStructure	1358
6.253.2.3	equals	1358
6.253.2.4	getDataStructureType	1358
6.253.2.5	operator=	1359
6.253.2.6	toString	1359
6.253.2.7	visit	1359
6.253.3	Field Documentation	1359
6.253.3.1	ID_FLUSHCOMMAND	1359
6.254	activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller Class Reference	1360
6.254.1	Detailed Description	1360
6.254.2	Constructor & Destructor Documentation	1361
6.254.2.1	FlushCommandMarshaller	1361
6.254.2.2	~FlushCommandMarshaller	1361
6.254.3	Member Function Documentation	1361
6.254.3.1	createObject	1361
6.254.3.2	getDataStructureType	1361
6.254.3.3	looseMarshal	1361
6.254.3.4	looseUnmarshal	1362

6.254.3.5 tightMarshal1	1362
6.254.3.6 tightMarshal2	1363
6.254.3.7 tightUnmarshal	1363
6.255activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller Class Reference	1364
6.255.1 Detailed Description	1364
6.255.2 Constructor & Destructor Documentation	1365
6.255.2.1 FlushCommandMarshaller	1365
6.255.2.2 ~FlushCommandMarshaller	1365
6.255.3 Member Function Documentation	1365
6.255.3.1 createObject	1365
6.255.3.2 getDataStructureType	1365
6.255.3.3 looseMarshal	1365
6.255.3.4 looseUnmarshal	1366
6.255.3.5 tightMarshal1	1366
6.255.3.6 tightMarshal2	1367
6.255.3.7 tightUnmarshal	1367
6.256activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller Class Reference	1368
6.256.1 Detailed Description	1368
6.256.2 Constructor & Destructor Documentation	1369
6.256.2.1 FlushCommandMarshaller	1369
6.256.2.2 ~FlushCommandMarshaller	1369
6.256.3 Member Function Documentation	1369
6.256.3.1 createObject	1369
6.256.3.2 getDataStructureType	1369
6.256.3.3 looseMarshal	1369
6.256.3.4 looseUnmarshal	1370
6.256.3.5 tightMarshal1	1370
6.256.3.6 tightMarshal2	1371
6.256.3.7 tightUnmarshal	1371
6.257decaf::util::logging::Formatter Class Reference	1372
6.257.1 Detailed Description	1372
6.257.2 Constructor & Destructor Documentation	1372
6.257.2.1 ~Formatter	1372
6.257.3 Member Function Documentation	1372
6.257.3.1 format	1372

6.257.3.2 formatMessage	1373
6.257.3.3 getHead	1373
6.257.3.4 getTail	1373
6.258decaf::util::concurrent::Future< V > Class Template Reference	1374
6.258.1 Detailed Description	1374
6.258.2 Constructor & Destructor Documentation	1375
6.258.2.1 ~Future	1375
6.258.3 Member Function Documentation	1375
6.258.3.1 cancel	1375
6.258.3.2 get	1375
6.258.3.3 get	1376
6.258.3.4 isCancelled	1376
6.258.3.5 isDone	1376
6.259activemq::transport::correlator::FutureResponse Class Reference	1377
6.259.1 Detailed Description	1377
6.259.2 Constructor & Destructor Documentation	1377
6.259.2.1 FutureResponse	1377
6.259.2.2 ~FutureResponse	1377
6.259.3 Member Function Documentation	1377
6.259.3.1 getResponse	1377
6.259.3.2 getResponse	1377
6.259.3.3 getResponse	1378
6.259.3.4 getResponse	1378
6.259.3.5 setResponse	1378
6.260decaf::security::GeneralSecurityException Class Reference	1379
6.260.1 Constructor & Destructor Documentation	1379
6.260.1.1 GeneralSecurityException	1379
6.260.1.2 GeneralSecurityException	1379
6.260.1.3 GeneralSecurityException	1380
6.260.1.4 GeneralSecurityException	1380
6.260.1.5 GeneralSecurityException	1380
6.260.1.6 GeneralSecurityException	1380
6.260.1.7 ~GeneralSecurityException	1381
6.260.2 Member Function Documentation	1381
6.260.2.1 clone	1381
6.261decaf::util::logging::Handler Class Reference	1382

6.261.1 Detailed Description	1382
6.261.2 Constructor & Destructor Documentation	1383
6.261.2.1 ~Handler	1383
6.261.3 Member Function Documentation	1383
6.261.3.1 flush	1383
6.261.3.2 getFilter	1383
6.261.3.3 getFormatter	1383
6.261.3.4 getLevel	1383
6.261.3.5 isLoggable	1383
6.261.3.6 publish	1384
6.261.3.7 setFilter	1384
6.261.3.8 setFormatter	1384
6.261.3.9 setLevel	1384
6.262decaf::internal::util::HexStringParser Class Reference	1386
6.262.1 Constructor & Destructor Documentation	1386
6.262.1.1 HexStringParser	1386
6.262.1.2 ~HexStringParser	1386
6.262.2 Member Function Documentation	1386
6.262.2.1 parse	1386
6.262.2.2 parseDouble	1387
6.262.2.3 parseFloat	1387
6.263activemq::wireformat::openwire::utils::HexTable Class Reference	1388
6.263.1 Detailed Description	1388
6.263.2 Constructor & Destructor Documentation	1388
6.263.2.1 HexTable	1388
6.263.2.2 ~HexTable	1388
6.263.3 Member Function Documentation	1388
6.263.3.1 operator[]	1388
6.263.3.2 operator[]	1388
6.263.3.3 size	1389
6.264decaf::net::HttpRetryException Class Reference	1390
6.264.1 Constructor & Destructor Documentation	1390
6.264.1.1 HttpRetryException	1390
6.264.1.2 HttpRetryException	1390
6.264.1.3 HttpRetryException	1391
6.264.1.4 HttpRetryException	1391

6.264.1.5 <code>HttpRetryException</code>	1391
6.264.1.6 <code>HttpRetryException</code>	1391
6.264.1.7 <code>~HttpRetryException</code>	1392
6.264.2 Member Function Documentation	1392
6.264.2.1 <code>clone</code>	1392
6.265 <code>decaf::lang::exceptions::IllegalArgumentException</code> Class Reference	1393
6.265.1 Constructor & Destructor Documentation	1393
6.265.1.1 <code>IllegalArgumentException</code>	1393
6.265.1.2 <code>IllegalArgumentException</code>	1393
6.265.1.3 <code>IllegalArgumentException</code>	1394
6.265.1.4 <code>IllegalArgumentException</code>	1394
6.265.1.5 <code>IllegalArgumentException</code>	1394
6.265.1.6 <code>IllegalArgumentException</code>	1394
6.265.1.7 <code>~IllegalArgumentException</code>	1395
6.265.2 Member Function Documentation	1395
6.265.2.1 <code>clone</code>	1395
6.266 <code>decaf::lang::exceptions::IllegalMonitorStateException</code> Class Reference	1396
6.266.1 Constructor & Destructor Documentation	1396
6.266.1.1 <code>IllegalMonitorStateException</code>	1396
6.266.1.2 <code>IllegalMonitorStateException</code>	1396
6.266.1.3 <code>IllegalMonitorStateException</code>	1397
6.266.1.4 <code>IllegalMonitorStateException</code>	1397
6.266.1.5 <code>IllegalMonitorStateException</code>	1397
6.266.1.6 <code>IllegalMonitorStateException</code>	1397
6.266.1.7 <code>~IllegalMonitorStateException</code>	1398
6.266.2 Member Function Documentation	1398
6.266.2.1 <code>clone</code>	1398
6.267 <code>cms::IllegalStateException</code> Class Reference	1399
6.267.1 Detailed Description	1399
6.267.2 Constructor & Destructor Documentation	1399
6.267.2.1 <code>IllegalStateException</code>	1399
6.267.2.2 <code>IllegalStateException</code>	1399
6.267.2.3 <code>IllegalStateException</code>	1399
6.267.2.4 <code>IllegalStateException</code>	1399
6.267.2.5 <code>~IllegalStateException</code>	1399
6.268 <code>decaf::lang::exceptions::IllegalStateException</code> Class Reference	1400

6.268.1 Constructor & Destructor Documentation	1400
6.268.1.1 IllegalStateException	1400
6.268.1.2 IllegalStateException	1400
6.268.1.3 IllegalStateException	1401
6.268.1.4 IllegalStateException	1401
6.268.1.5 IllegalStateException	1401
6.268.1.6 IllegalStateException	1401
6.268.1.7 ~IllegalStateException	1402
6.268.2 Member Function Documentation	1402
6.268.2.1 clone	1402
6.269decaf::lang::exceptions::IndexOutOfBoundsException Class Reference	1403
6.269.1 Constructor & Destructor Documentation	1403
6.269.1.1 IndexOutOfBoundsException	1403
6.269.1.2 IndexOutOfBoundsException	1403
6.269.1.3 IndexOutOfBoundsException	1404
6.269.1.4 IndexOutOfBoundsException	1404
6.269.1.5 IndexOutOfBoundsException	1404
6.269.1.6 IndexOutOfBoundsException	1404
6.269.1.7 ~IndexOutOfBoundsException	1405
6.269.2 Member Function Documentation	1405
6.269.2.1 clone	1405
6.270decaf::io::InputStream Class Reference	1406
6.270.1 Detailed Description	1406
6.270.2 Constructor & Destructor Documentation	1407
6.270.2.1 ~InputStream	1407
6.270.3 Member Function Documentation	1407
6.270.3.1 available	1407
6.270.3.2 mark	1407
6.270.3.3 markSupported	1407
6.270.3.4 read	1408
6.270.3.5 read	1408
6.270.3.6 reset	1408
6.270.3.7 skip	1409
6.271decaf::internal::nio::IntArrayBuffer Class Reference	1410
6.271.1 Constructor & Destructor Documentation	1411
6.271.1.1 IntArrayBuffer	1411

6.271.1.2 IntArrayBuffer	1411
6.271.1.3 IntArrayBuffer	1412
6.271.1.4 IntArrayBuffer	1412
6.271.1.5 ~IntArrayBuffer	1412
6.271.2 Member Function Documentation	1412
6.271.2.1 array	1412
6.271.2.2 arrayOffset	1413
6.271.2.3 asReadOnlyBuffer	1413
6.271.2.4 compact	1413
6.271.2.5 duplicate	1414
6.271.2.6 get	1414
6.271.2.7 get	1414
6.271.2.8 hasArray	1415
6.271.2.9 isReadOnly	1415
6.271.2.10put	1415
6.271.2.11put	1416
6.271.2.12setReadOnly	1416
6.271.2.13slice	1416
6.272decaf::nio::IntBuffer Class Reference	1417
6.272.1 Detailed Description	1419
6.272.2 Constructor & Destructor Documentation	1419
6.272.2.1 IntBuffer	1419
6.272.2.2 ~IntBuffer	1419
6.272.3 Member Function Documentation	1419
6.272.3.1 allocate	1419
6.272.3.2 array	1419
6.272.3.3 arrayOffset	1420
6.272.3.4 asReadOnlyBuffer	1420
6.272.3.5 compact	1420
6.272.3.6 compareTo	1421
6.272.3.7 duplicate	1421
6.272.3.8 equals	1421
6.272.3.9 get	1422
6.272.3.10get	1422
6.272.3.11get	1422
6.272.3.12get	1423

6.272.3.13	hasArray	1423
6.272.3.14	operator<	1423
6.272.3.15	operator==	1424
6.272.3.16	put	1424
6.272.3.17	put	1424
6.272.3.18	put	1425
6.272.3.19	put	1425
6.272.3.20	put	1425
6.272.3.21	slice	1426
6.272.3.22	toString	1426
6.272.3.23	wrap	1426
6.272.3.24	wrap	1427
6.273	decaf::lang::Integer Class Reference	1428
6.273.1	Constructor & Destructor Documentation	1430
6.273.1.1	Integer	1430
6.273.1.2	Integer	1431
6.273.1.3	~Integer	1431
6.273.2	Member Function Documentation	1431
6.273.2.1	bitCount	1431
6.273.2.2	byteValue	1431
6.273.2.3	compareTo	1431
6.273.2.4	compareTo	1432
6.273.2.5	decode	1432
6.273.2.6	doubleValue	1432
6.273.2.7	equals	1432
6.273.2.8	equals	1433
6.273.2.9	float Value	1433
6.273.2.10	highestOneBit	1433
6.273.2.11	int Value	1433
6.273.2.12	long Value	1434
6.273.2.13	lowestOneBit	1434
6.273.2.14	numberOfLeadingZeros	1434
6.273.2.15	numberOfTrailingZeros	1434
6.273.2.16	operator<	1435
6.273.2.17	operator<	1435
6.273.2.18	operator==	1435

6.273.2.19operator==	1436
6.273.2.20parseInt	1436
6.273.2.21parseInt	1436
6.273.2.22reverse	1437
6.273.2.23reverseBytes	1437
6.273.2.24rotateLeft	1437
6.273.2.25rotateRight	1438
6.273.2.26shortValue	1438
6.273.2.27signum	1438
6.273.2.28oBinaryString	1438
6.273.2.29oHexString	1439
6.273.2.30oOctalString	1439
6.273.2.31loString	1439
6.273.2.32oString	1440
6.273.2.33oString	1440
6.273.2.34valueOf	1440
6.273.2.35valueOf	1441
6.273.2.36valueOf	1441
6.273.3 Field Documentation	1441
6.273.3.1 MAX_VALUE	1441
6.273.3.2 MIN_VALUE	1441
6.273.3.3 SIZE	1441
6.274activemq::commands::IntegerResponse Class Reference	1442
6.274.1 Constructor & Destructor Documentation	1443
6.274.1.1 IntegerResponse	1443
6.274.1.2 IntegerResponse	1443
6.274.1.3 ~IntegerResponse	1443
6.274.2 Member Function Documentation	1443
6.274.2.1 cloneDataStructure	1443
6.274.2.2 copyDataStructure	1443
6.274.2.3 equals	1443
6.274.2.4 getDataStructureType	1443
6.274.2.5 getResult	1444
6.274.2.6 operator=	1444
6.274.2.7 setResult	1444
6.274.2.8 toString	1444

6.274.3 Field Documentation	1444
6.274.3.1 ID_INTEGERRESPONSE	1444
6.274.3.2 result	1444
6.275activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller Class	
Reference	1445
6.275.1 Detailed Description	1445
6.275.2 Constructor & Destructor Documentation	1446
6.275.2.1 IntegerResponseMarshaller	1446
6.275.2.2 ~IntegerResponseMarshaller	1446
6.275.3 Member Function Documentation	1446
6.275.3.1 createObject	1446
6.275.3.2 getDataStructureType	1446
6.275.3.3 looseMarshal	1446
6.275.3.4 looseUnmarshal	1447
6.275.3.5 tightMarshal1	1447
6.275.3.6 tightMarshal2	1448
6.275.3.7 tightUnmarshal	1448
6.276activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller Class	
Reference	1449
6.276.1 Detailed Description	1449
6.276.2 Constructor & Destructor Documentation	1450
6.276.2.1 IntegerResponseMarshaller	1450
6.276.2.2 ~IntegerResponseMarshaller	1450
6.276.3 Member Function Documentation	1450
6.276.3.1 createObject	1450
6.276.3.2 getDataStructureType	1450
6.276.3.3 looseMarshal	1450
6.276.3.4 looseUnmarshal	1451
6.276.3.5 tightMarshal1	1451
6.276.3.6 tightMarshal2	1452
6.276.3.7 tightUnmarshal	1452
6.277activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller Class	
Reference	1453
6.277.1 Detailed Description	1453
6.277.2 Constructor & Destructor Documentation	1454
6.277.2.1 IntegerResponseMarshaller	1454
6.277.2.2 ~IntegerResponseMarshaller	1454

6.277.3 Member Function Documentation	1454
6.277.3.1 createObject	1454
6.277.3.2 getDataStructureType	1454
6.277.3.3 looseMarshal	1454
6.277.3.4 looseUnmarshal	1455
6.277.3.5 tightMarshal1	1455
6.277.3.6 tightMarshal2	1456
6.277.3.7 tightUnmarshal	1456
6.278activemq::transport::mock::InternalCommandListener Class Reference	1457
6.278.1 Detailed Description	1457
6.278.2 Constructor & Destructor Documentation	1457
6.278.2.1 InternalCommandListener	1457
6.278.2.2 ~InternalCommandListener	1457
6.278.3 Member Function Documentation	1457
6.278.3.1 onCommand	1457
6.278.3.2 run	1458
6.278.3.3 setResponseBuilder	1458
6.278.3.4 setTransport	1458
6.279decaf::lang::exceptions::InterruptedException Class Reference	1459
6.279.1 Constructor & Destructor Documentation	1459
6.279.1.1 InterruptedException	1459
6.279.1.2 InterruptedException	1459
6.279.1.3 InterruptedException	1460
6.279.1.4 InterruptedException	1460
6.279.1.5 InterruptedException	1460
6.279.1.6 InterruptedException	1460
6.279.1.7 ~InterruptedException	1461
6.279.2 Member Function Documentation	1461
6.279.2.1 clone	1461
6.280decaf::io::InterruptedException Class Reference	1462
6.280.1 Constructor & Destructor Documentation	1462
6.280.1.1 InterruptedException	1462
6.280.1.2 InterruptedException	1462
6.280.1.3 InterruptedException	1463
6.280.1.4 InterruptedException	1463
6.280.1.5 InterruptedException	1463

6.280.1.6 InterruptedIOException	1463
6.280.1.7 ~InterruptedIOException	1464
6.280.2 Member Function Documentation	1464
6.280.2.1 clone	1464
6.281cms::InvalidClientIdException Class Reference	1465
6.281.1 Detailed Description	1465
6.281.2 Constructor & Destructor Documentation	1465
6.281.2.1 InvalidClientIdException	1465
6.281.2.2 InvalidClientIdException	1465
6.281.2.3 InvalidClientIdException	1465
6.281.2.4 InvalidClientIdException	1465
6.281.2.5 ~InvalidClientIdException	1465
6.282cms::InvalidDestinationException Class Reference	1466
6.282.1 Detailed Description	1466
6.282.2 Constructor & Destructor Documentation	1466
6.282.2.1 InvalidDestinationException	1466
6.282.2.2 InvalidDestinationException	1466
6.282.2.3 InvalidDestinationException	1466
6.282.2.4 InvalidDestinationException	1466
6.282.2.5 ~InvalidDestinationException	1466
6.283decaf::security::InvalidKeyException Class Reference	1467
6.283.1 Constructor & Destructor Documentation	1467
6.283.1.1 InvalidKeyException	1467
6.283.1.2 InvalidKeyException	1467
6.283.1.3 InvalidKeyException	1468
6.283.1.4 InvalidKeyException	1468
6.283.1.5 InvalidKeyException	1468
6.283.1.6 InvalidKeyException	1468
6.283.1.7 ~InvalidKeyException	1469
6.283.2 Member Function Documentation	1469
6.283.2.1 clone	1469
6.284decaf::nio::InvalidMarkException Class Reference	1470
6.284.1 Constructor & Destructor Documentation	1470
6.284.1.1 InvalidMarkException	1470
6.284.1.2 InvalidMarkException	1470
6.284.1.3 InvalidMarkException	1471

6.284.1.4 InvalidMarkException	1471
6.284.1.5 InvalidMarkException	1471
6.284.1.6 InvalidMarkException	1471
6.284.1.7 ~InvalidMarkException	1472
6.284.2 Member Function Documentation	1472
6.284.2.1 clone	1472
6.285cms::InvalidSelectorException Class Reference	1473
6.285.1 Detailed Description	1473
6.285.2 Constructor & Destructor Documentation	1473
6.285.2.1 InvalidSelectorException	1473
6.285.2.2 InvalidSelectorException	1473
6.285.2.3 InvalidSelectorException	1473
6.285.2.4 InvalidSelectorException	1473
6.285.2.5 ~InvalidSelectorException	1473
6.286decaf::lang::exceptions::InvalidStateException Class Reference	1474
6.286.1 Constructor & Destructor Documentation	1474
6.286.1.1 InvalidStateException	1474
6.286.1.2 InvalidStateException	1474
6.286.1.3 InvalidStateException	1475
6.286.1.4 InvalidStateException	1475
6.286.1.5 InvalidStateException	1475
6.286.1.6 InvalidStateException	1475
6.286.1.7 ~InvalidStateException	1476
6.286.2 Member Function Documentation	1476
6.286.2.1 clone	1476
6.287decaf::io::IOException Class Reference	1477
6.287.1 Constructor & Destructor Documentation	1477
6.287.1.1 IOException	1477
6.287.1.2 IOException	1477
6.287.1.3 IOException	1478
6.287.1.4 IOException	1478
6.287.1.5 IOException	1478
6.287.1.6 IOException	1478
6.287.1.7 ~IOException	1479
6.287.2 Member Function Documentation	1479
6.287.2.1 clone	1479

6.288	activemq::transport::IOTransport Class Reference	1480
6.288.1	Detailed Description	1481
6.288.2	Constructor & Destructor Documentation	1481
6.288.2.1	IOTransport	1481
6.288.2.2	IOTransport	1481
6.288.2.3	~IOTransport	1482
6.288.3	Member Function Documentation	1482
6.288.3.1	close	1482
6.288.3.2	getRemoteAddress	1482
6.288.3.3	getTransportListener	1482
6.288.3.4	isClosed	1482
6.288.3.5	isConnected	1483
6.288.3.6	isFaultTolerant	1483
6.288.3.7	narrow	1483
6.288.3.8	oneway	1483
6.288.3.9	reconnect	1484
6.288.3.10	request	1484
6.288.3.11	request	1484
6.288.3.12	run	1485
6.288.3.13	setInputStream	1485
6.288.3.14	setOutputStream	1485
6.288.3.15	setTransportListener	1485
6.288.3.16	setWireFormat	1485
6.288.3.17	start	1485
6.289	decaf::lang::Iterable< E > Class Template Reference	1487
6.289.1	Detailed Description	1487
6.289.2	Constructor & Destructor Documentation	1487
6.289.2.1	~Iterable	1487
6.289.3	Member Function Documentation	1487
6.289.3.1	iterator	1487
6.289.3.2	iterator	1487
6.290	decaf::util::Iterator< T > Class Template Reference	1489
6.290.1	Detailed Description	1489
6.290.2	Constructor & Destructor Documentation	1489
6.290.2.1	~Iterator	1489
6.290.3	Member Function Documentation	1489

6.290.3.1	hasNext	1489
6.290.3.2	next	1489
6.290.3.3	remove	1490
6.291	activemq::commands::JournalQueueAck Class Reference	1491
6.291.1	Constructor & Destructor Documentation	1492
6.291.1.1	JournalQueueAck	1492
6.291.1.2	JournalQueueAck	1492
6.291.1.3	~JournalQueueAck	1492
6.291.2	Member Function Documentation	1492
6.291.2.1	cloneDataStructure	1492
6.291.2.2	copyDataStructure	1492
6.291.2.3	equals	1492
6.291.2.4	getDataStructureType	1492
6.291.2.5	getDestination	1493
6.291.2.6	getDestination	1493
6.291.2.7	getMessageAck	1493
6.291.2.8	getMessageAck	1493
6.291.2.9	operator=	1493
6.291.2.10	setDestination	1493
6.291.2.11	setMessageAck	1493
6.291.2.12	toString	1493
6.291.3	Field Documentation	1493
6.291.3.1	destination	1493
6.291.3.2	ID_ JOURNALQUEUEACK	1493
6.291.3.3	messageAck	1493
6.292	activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller Class Reference	1495
6.292.1	Detailed Description	1495
6.292.2	Constructor & Destructor Documentation	1496
6.292.2.1	JournalQueueAckMarshaller	1496
6.292.2.2	~JournalQueueAckMarshaller	1496
6.292.3	Member Function Documentation	1496
6.292.3.1	createObject	1496
6.292.3.2	getDataStructureType	1496
6.292.3.3	looseMarshal	1496
6.292.3.4	looseUnmarshal	1497
6.292.3.5	tightMarshal	1497

6.292.3.6 tightMarshal2	1498
6.292.3.7 tightUnmarshal	1498
6.293activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller Class	
Reference	1499
6.293.1 Detailed Description	1499
6.293.2 Constructor & Destructor Documentation	1500
6.293.2.1 JournalQueueAckMarshaller	1500
6.293.2.2 ~JournalQueueAckMarshaller	1500
6.293.3 Member Function Documentation	1500
6.293.3.1 createObject	1500
6.293.3.2 getDataStructureType	1500
6.293.3.3 looseMarshal	1500
6.293.3.4 looseUnmarshal	1501
6.293.3.5 tightMarshal1	1501
6.293.3.6 tightMarshal2	1502
6.293.3.7 tightUnmarshal	1502
6.294activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller Class	
Reference	1503
6.294.1 Detailed Description	1503
6.294.2 Constructor & Destructor Documentation	1504
6.294.2.1 JournalQueueAckMarshaller	1504
6.294.2.2 ~JournalQueueAckMarshaller	1504
6.294.3 Member Function Documentation	1504
6.294.3.1 createObject	1504
6.294.3.2 getDataStructureType	1504
6.294.3.3 looseMarshal	1504
6.294.3.4 looseUnmarshal	1505
6.294.3.5 tightMarshal1	1505
6.294.3.6 tightMarshal2	1506
6.294.3.7 tightUnmarshal	1506
6.295activemq::commands::JournalTopicAck Class Reference	1507
6.295.1 Constructor & Destructor Documentation	1508
6.295.1.1 JournalTopicAck	1508
6.295.1.2 JournalTopicAck	1508
6.295.1.3 ~JournalTopicAck	1508
6.295.2 Member Function Documentation	1508
6.295.2.1 cloneDataStructure	1508

6.295.2.2 copyDataStructure	1508
6.295.2.3 equals	1509
6.295.2.4 getClientId	1509
6.295.2.5 getClientId	1509
6.295.2.6 getDataStructureType	1509
6.295.2.7 getDestination	1510
6.295.2.8 getDestination	1510
6.295.2.9 getMessageId	1510
6.295.2.10getMessageId	1510
6.295.2.11getMessageSequenceId	1510
6.295.2.12getSubscriptionName	1510
6.295.2.13getSubscriptionName	1510
6.295.2.14getTransactionId	1510
6.295.2.15getTransactionId	1510
6.295.2.16operator=	1510
6.295.2.17setClientId	1510
6.295.2.18setDestination	1510
6.295.2.19setMessageId	1510
6.295.2.20setMessageSequenceId	1510
6.295.2.21setSubscriptionName	1510
6.295.2.22setTransactionId	1510
6.295.2.23toString	1510
6.295.3 Field Documentation	1511
6.295.3.1 clientId	1511
6.295.3.2 destination	1511
6.295.3.3 ID_ JOURNALTOPICACK	1511
6.295.3.4 messageId	1511
6.295.3.5 messageSequenceId	1511
6.295.3.6 subscriptionName	1511
6.295.3.7 transactionId	1511
6.296activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller Class	
Reference	1512
6.296.1 Detailed Description	1512
6.296.2 Constructor & Destructor Documentation	1513
6.296.2.1 JournalTopicAckMarshaller	1513
6.296.2.2 ~JournalTopicAckMarshaller	1513
6.296.3 Member Function Documentation	1513

6.296.3.1	createObject	1513
6.296.3.2	getDataStructureType	1513
6.296.3.3	looseMarshal	1513
6.296.3.4	looseUnmarshal	1514
6.296.3.5	tightMarshal1	1514
6.296.3.6	tightMarshal2	1515
6.296.3.7	tightUnmarshal	1515
6.297	activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller Class	
	Reference	1516
6.297.1	Detailed Description	1516
6.297.2	Constructor & Destructor Documentation	1517
6.297.2.1	JournalTopicAckMarshaller	1517
6.297.2.2	~JournalTopicAckMarshaller	1517
6.297.3	Member Function Documentation	1517
6.297.3.1	createObject	1517
6.297.3.2	getDataStructureType	1517
6.297.3.3	looseMarshal	1517
6.297.3.4	looseUnmarshal	1518
6.297.3.5	tightMarshal1	1518
6.297.3.6	tightMarshal2	1519
6.297.3.7	tightUnmarshal	1519
6.298	activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller Class	
	Reference	1520
6.298.1	Detailed Description	1520
6.298.2	Constructor & Destructor Documentation	1521
6.298.2.1	JournalTopicAckMarshaller	1521
6.298.2.2	~JournalTopicAckMarshaller	1521
6.298.3	Member Function Documentation	1521
6.298.3.1	createObject	1521
6.298.3.2	getDataStructureType	1521
6.298.3.3	looseMarshal	1521
6.298.3.4	looseUnmarshal	1522
6.298.3.5	tightMarshal1	1522
6.298.3.6	tightMarshal2	1523
6.298.3.7	tightUnmarshal	1523
6.299	activemq::commands::JournalTrace Class Reference	1524
6.299.1	Constructor & Destructor Documentation	1525

6.299.1.1 JournalTrace	1525
6.299.1.2 JournalTrace	1525
6.299.1.3 ~JournalTrace	1525
6.299.2 Member Function Documentation	1525
6.299.2.1 cloneDataStructure	1525
6.299.2.2 copyDataStructure	1525
6.299.2.3 equals	1525
6.299.2.4 getDataStructureType	1525
6.299.2.5 getMessage	1526
6.299.2.6 getMessage	1526
6.299.2.7 operator=	1526
6.299.2.8 setMessage	1526
6.299.2.9 toString	1526
6.299.3 Field Documentation	1526
6.299.3.1 ID_ JOURNALTRACE	1526
6.299.3.2 message	1526
6.300activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller Class Reference	1527
6.300.1 Detailed Description	1527
6.300.2 Constructor & Destructor Documentation	1528
6.300.2.1 JournalTraceMarshaller	1528
6.300.2.2 ~JournalTraceMarshaller	1528
6.300.3 Member Function Documentation	1528
6.300.3.1 createObject	1528
6.300.3.2 getDataStructureType	1528
6.300.3.3 looseMarshal	1528
6.300.3.4 looseUnmarshal	1529
6.300.3.5 tightMarshal1	1529
6.300.3.6 tightMarshal2	1530
6.300.3.7 tightUnmarshal	1530
6.301activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller Class Reference	1531
6.301.1 Detailed Description	1531
6.301.2 Constructor & Destructor Documentation	1532
6.301.2.1 JournalTraceMarshaller	1532
6.301.2.2 ~JournalTraceMarshaller	1532
6.301.3 Member Function Documentation	1532

6.301.3.1 createObject	1532
6.301.3.2 getDataStructureType	1532
6.301.3.3 looseMarshal	1532
6.301.3.4 looseUnmarshal	1533
6.301.3.5 tightMarshal1	1533
6.301.3.6 tightMarshal2	1534
6.301.3.7 tightUnmarshal	1534
6.302activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller Class Reference	1535
6.302.1 Detailed Description	1535
6.302.2 Constructor & Destructor Documentation	1536
6.302.2.1 JournalTraceMarshaller	1536
6.302.2.2 ~JournalTraceMarshaller	1536
6.302.3 Member Function Documentation	1536
6.302.3.1 createObject	1536
6.302.3.2 getDataStructureType	1536
6.302.3.3 looseMarshal	1536
6.302.3.4 looseUnmarshal	1537
6.302.3.5 tightMarshal1	1537
6.302.3.6 tightMarshal2	1538
6.302.3.7 tightUnmarshal	1538
6.303activemq::commands::JournalTransaction Class Reference	1539
6.303.1 Constructor & Destructor Documentation	1540
6.303.1.1 JournalTransaction	1540
6.303.1.2 JournalTransaction	1540
6.303.1.3 ~JournalTransaction	1540
6.303.2 Member Function Documentation	1540
6.303.2.1 cloneDataStructure	1540
6.303.2.2 copyDataStructure	1540
6.303.2.3 equals	1540
6.303.2.4 getDataStructureType	1541
6.303.2.5 getTransactionId	1541
6.303.2.6 getTransactionId	1541
6.303.2.7 getType	1541
6.303.2.8 getWasPrepared	1541
6.303.2.9 operator=	1541
6.303.2.10setTransactionId	1541

6.303.2.1	set Type	1541
6.303.2.12	set WasPrepared	1541
6.303.2.13	oString	1541
6.303.3	Field Documentation	1542
6.303.3.1	ID_ JOURNALTRANSACTION	1542
6.303.3.2	transactionId	1542
6.303.3.3	type	1542
6.303.3.4	wasPrepared	1542
6.304	activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller Class	
	Reference	1543
6.304.1	Detailed Description	1543
6.304.2	Constructor & Destructor Documentation	1544
6.304.2.1	JournalTransactionMarshaller	1544
6.304.2.2	~JournalTransactionMarshaller	1544
6.304.3	Member Function Documentation	1544
6.304.3.1	createObject	1544
6.304.3.2	getDataStructureType	1544
6.304.3.3	looseMarshal	1544
6.304.3.4	looseUnmarshal	1545
6.304.3.5	tightMarshal1	1545
6.304.3.6	tightMarshal2	1546
6.304.3.7	tightUnmarshal	1546
6.305	activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller Class	
	Reference	1547
6.305.1	Detailed Description	1547
6.305.2	Constructor & Destructor Documentation	1548
6.305.2.1	JournalTransactionMarshaller	1548
6.305.2.2	~JournalTransactionMarshaller	1548
6.305.3	Member Function Documentation	1548
6.305.3.1	createObject	1548
6.305.3.2	getDataStructureType	1548
6.305.3.3	looseMarshal	1548
6.305.3.4	looseUnmarshal	1549
6.305.3.5	tightMarshal1	1549
6.305.3.6	tightMarshal2	1550
6.305.3.7	tightUnmarshal	1550

6.306activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller Class Reference	1551
6.306.1 Detailed Description	1551
6.306.2 Constructor & Destructor Documentation	1552
6.306.2.1 JournalTransactionMarshaller	1552
6.306.2.2 ~JournalTransactionMarshaller	1552
6.306.3 Member Function Documentation	1552
6.306.3.1 createObject	1552
6.306.3.2 getDataStructureType	1552
6.306.3.3 looseMarshal	1552
6.306.3.4 looseUnmarshal	1553
6.306.3.5 tightMarshal1	1553
6.306.3.6 tightMarshal2	1554
6.306.3.7 tightUnmarshal	1554
6.307activemq::commands::KeepAliveInfo Class Reference	1555
6.307.1 Constructor & Destructor Documentation	1556
6.307.1.1 KeepAliveInfo	1556
6.307.1.2 KeepAliveInfo	1556
6.307.1.3 ~KeepAliveInfo	1556
6.307.2 Member Function Documentation	1556
6.307.2.1 cloneDataStructure	1556
6.307.2.2 copyDataStructure	1556
6.307.2.3 equals	1556
6.307.2.4 getDataStructureType	1556
6.307.2.5 isKeepAliveInfo	1557
6.307.2.6 operator=	1557
6.307.2.7 toString	1557
6.307.2.8 visit	1557
6.307.3 Field Documentation	1557
6.307.3.1 ID_KEEPLIVEINFO	1557
6.308activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller Class Reference	1558
6.308.1 Detailed Description	1558
6.308.2 Constructor & Destructor Documentation	1559
6.308.2.1 KeepAliveInfoMarshaller	1559
6.308.2.2 ~KeepAliveInfoMarshaller	1559
6.308.3 Member Function Documentation	1559

6.308.3.1 createObject	1559
6.308.3.2 getDataStructureType	1559
6.308.3.3 looseMarshal	1559
6.308.3.4 looseUnmarshal	1560
6.308.3.5 tightMarshal1	1560
6.308.3.6 tightMarshal2	1561
6.308.3.7 tightUnmarshal	1561
6.309activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller Class Reference	1562
6.309.1 Detailed Description	1562
6.309.2 Constructor & Destructor Documentation	1563
6.309.2.1 KeepAliveInfoMarshaller	1563
6.309.2.2 ~KeepAliveInfoMarshaller	1563
6.309.3 Member Function Documentation	1563
6.309.3.1 createObject	1563
6.309.3.2 getDataStructureType	1563
6.309.3.3 looseMarshal	1563
6.309.3.4 looseUnmarshal	1564
6.309.3.5 tightMarshal1	1564
6.309.3.6 tightMarshal2	1565
6.309.3.7 tightUnmarshal	1565
6.310activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller Class Reference	1566
6.310.1 Detailed Description	1566
6.310.2 Constructor & Destructor Documentation	1567
6.310.2.1 KeepAliveInfoMarshaller	1567
6.310.2.2 ~KeepAliveInfoMarshaller	1567
6.310.3 Member Function Documentation	1567
6.310.3.1 createObject	1567
6.310.3.2 getDataStructureType	1567
6.310.3.3 looseMarshal	1567
6.310.3.4 looseUnmarshal	1568
6.310.3.5 tightMarshal1	1568
6.310.3.6 tightMarshal2	1569
6.310.3.7 tightUnmarshal	1569
6.311decaf::security::Key Class Reference	1570
6.311.1 Detailed Description	1570

6.311.2 Constructor & Destructor Documentation	1571
6.311.2.1 ~Key	1571
6.311.3 Member Function Documentation	1571
6.311.3.1 getAlgorithm	1571
6.311.3.2 getEncoded	1571
6.311.3.3 getFormat	1571
6.312 decaf::security::KeyException Class Reference	1572
6.312.1 Constructor & Destructor Documentation	1572
6.312.1.1 KeyException	1572
6.312.1.2 KeyException	1572
6.312.1.3 KeyException	1573
6.312.1.4 KeyException	1573
6.312.1.5 KeyException	1573
6.312.1.6 KeyException	1573
6.312.1.7 ~KeyException	1574
6.312.2 Member Function Documentation	1574
6.312.2.1 clone	1574
6.313 activemq::commands::LastPartialCommand Class Reference	1575
6.313.1 Constructor & Destructor Documentation	1576
6.313.1.1 LastPartialCommand	1576
6.313.1.2 LastPartialCommand	1576
6.313.1.3 ~LastPartialCommand	1576
6.313.2 Member Function Documentation	1576
6.313.2.1 cloneDataStructure	1576
6.313.2.2 copyDataStructure	1576
6.313.2.3 equals	1576
6.313.2.4 getDataStructureType	1577
6.313.2.5 operator=	1577
6.313.2.6 toString	1577
6.313.3 Field Documentation	1577
6.313.3.1 ID_LASTPARTIALCOMMAND	1577
6.314 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller	
Class Reference	1578
6.314.1 Detailed Description	1578
6.314.2 Constructor & Destructor Documentation	1579
6.314.2.1 LastPartialCommandMarshaller	1579
6.314.2.2 ~LastPartialCommandMarshaller	1579

6.314.3 Member Function Documentation	1579
6.314.3.1 createObject	1579
6.314.3.2 getDataStructureType	1579
6.314.3.3 looseMarshal	1579
6.314.3.4 looseUnmarshal	1580
6.314.3.5 tightMarshal1	1580
6.314.3.6 tightMarshal2	1581
6.314.3.7 tightUnmarshal	1581
6.315activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller	
Class Reference	1582
6.315.1 Detailed Description	1582
6.315.2 Constructor & Destructor Documentation	1583
6.315.2.1 LastPartialCommandMarshaller	1583
6.315.2.2 ~LastPartialCommandMarshaller	1583
6.315.3 Member Function Documentation	1583
6.315.3.1 createObject	1583
6.315.3.2 getDataStructureType	1583
6.315.3.3 looseMarshal	1583
6.315.3.4 looseUnmarshal	1584
6.315.3.5 tightMarshal1	1584
6.315.3.6 tightMarshal2	1585
6.315.3.7 tightUnmarshal	1585
6.316activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller	
Class Reference	1586
6.316.1 Detailed Description	1586
6.316.2 Constructor & Destructor Documentation	1587
6.316.2.1 LastPartialCommandMarshaller	1587
6.316.2.2 ~LastPartialCommandMarshaller	1587
6.316.3 Member Function Documentation	1587
6.316.3.1 createObject	1587
6.316.3.2 getDataStructureType	1587
6.316.3.3 looseMarshal	1587
6.316.3.4 looseUnmarshal	1588
6.316.3.5 tightMarshal1	1588
6.316.3.6 tightMarshal2	1589
6.316.3.7 tightUnmarshal	1589
6.317std::less< decaf::lang::Pointer< T > > Struct Template Reference	1590

6.317.1 Detailed Description	1590
6.317.2 Member Function Documentation	1590
6.317.2.1 operator()	1590
6.318decaf::util::List< E > Class Template Reference	1591
6.318.1 Detailed Description	1592
6.318.2 Constructor & Destructor Documentation	1592
6.318.2.1 ~List	1592
6.318.3 Member Function Documentation	1592
6.318.3.1 add	1592
6.318.3.2 addAll	1592
6.318.3.3 get	1593
6.318.3.4 indexOf	1593
6.318.3.5 lastIndexOf	1594
6.318.3.6 listIterator	1594
6.318.3.7 listIterator	1595
6.318.3.8 listIterator	1595
6.318.3.9 listIterator	1595
6.318.3.10remove	1596
6.318.3.11set	1596
6.319decaf::util::ListIterator< E > Class Template Reference	1597
6.319.1 Detailed Description	1597
6.319.2 Constructor & Destructor Documentation	1598
6.319.2.1 ~ListIterator	1598
6.319.3 Member Function Documentation	1598
6.319.3.1 add	1598
6.319.3.2 hasPrevious	1598
6.319.3.3 nextIndex	1598
6.319.3.4 previous	1599
6.319.3.5 previousIndex	1599
6.319.3.6 set	1599
6.320activemq::commands::LocalTransactionId Class Reference	1600
6.320.1 Member Typedef Documentation	1601
6.320.1.1 COMPARATOR	1601
6.320.2 Constructor & Destructor Documentation	1601
6.320.2.1 LocalTransactionId	1601
6.320.2.2 LocalTransactionId	1601

6.320.2.3 ~LocalTransactionId	1601
6.320.3 Member Function Documentation	1601
6.320.3.1 cloneDataStructure	1601
6.320.3.2 compareTo	1601
6.320.3.3 copyDataStructure	1601
6.320.3.4 equals	1602
6.320.3.5 equals	1602
6.320.3.6 getConnectionId	1602
6.320.3.7 getConnectionId	1602
6.320.3.8 getDataStructureType	1602
6.320.3.9 getValue	1602
6.320.3.10 operator<	1602
6.320.3.11 operator=	1602
6.320.3.12 operator==	1603
6.320.3.13 setConnectionId	1603
6.320.3.14 setValue	1603
6.320.3.15 toString	1603
6.320.4 Field Documentation	1603
6.320.4.1 connectionId	1603
6.320.4.2 ID_LOCALTRANSACTIONID	1603
6.320.4.3 value	1603
6.321 activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller Class	
Reference	1604
6.321.1 Detailed Description	1604
6.321.2 Constructor & Destructor Documentation	1605
6.321.2.1 LocalTransactionIdMarshaller	1605
6.321.2.2 ~LocalTransactionIdMarshaller	1605
6.321.3 Member Function Documentation	1605
6.321.3.1 createObject	1605
6.321.3.2 getDataStructureType	1605
6.321.3.3 looseMarshal	1605
6.321.3.4 looseUnmarshal	1606
6.321.3.5 tightMarshal1	1606
6.321.3.6 tightMarshal2	1607
6.321.3.7 tightUnmarshal	1607
6.322 activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller Class	
Reference	1608

6.322.1 Detailed Description	1608
6.322.2 Constructor & Destructor Documentation	1609
6.322.2.1 LocalTransactionIdMarshaller	1609
6.322.2.2 ~LocalTransactionIdMarshaller	1609
6.322.3 Member Function Documentation	1609
6.322.3.1 createObject	1609
6.322.3.2 getDataStructureType	1609
6.322.3.3 looseMarshal	1609
6.322.3.4 looseUnmarshal	1610
6.322.3.5 tightMarshal1	1610
6.322.3.6 tightMarshal2	1611
6.322.3.7 tightUnmarshal	1611
6.323activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller Class Reference	1612
6.323.1 Detailed Description	1612
6.323.2 Constructor & Destructor Documentation	1613
6.323.2.1 LocalTransactionIdMarshaller	1613
6.323.2.2 ~LocalTransactionIdMarshaller	1613
6.323.3 Member Function Documentation	1613
6.323.3.1 createObject	1613
6.323.3.2 getDataStructureType	1613
6.323.3.3 looseMarshal	1613
6.323.3.4 looseUnmarshal	1614
6.323.3.5 tightMarshal1	1614
6.323.3.6 tightMarshal2	1615
6.323.3.7 tightUnmarshal	1615
6.324decaf::util::concurrent::Lock Class Reference	1616
6.324.1 Detailed Description	1616
6.324.2 Constructor & Destructor Documentation	1616
6.324.2.1 Lock	1616
6.324.2.2 ~Lock	1617
6.324.3 Member Function Documentation	1617
6.324.3.1 isLocked	1617
6.324.3.2 lock	1617
6.324.3.3 unlock	1617
6.325decaf::util::concurrent::locks::Lock Class Reference	1618
6.325.1 Detailed Description	1618

6.325.2 Constructor & Destructor Documentation	1619
6.325.2.1 ~Lock	1619
6.325.3 Member Function Documentation	1619
6.325.3.1 lock	1619
6.325.3.2 lockInterruptibly	1620
6.325.3.3 newCondition	1620
6.325.3.4 tryLock	1621
6.325.3.5 tryLock	1621
6.325.3.6 unlock	1622
6.326decaf::util::logging::Logger Class Reference	1623
6.326.1 Constructor & Destructor Documentation	1624
6.326.1.1 Logger	1624
6.326.1.2 ~Logger	1625
6.326.2 Member Function Documentation	1625
6.326.2.1 addHandler	1625
6.326.2.2 debug	1625
6.326.2.3 entry	1625
6.326.2.4 error	1626
6.326.2.5 exit	1626
6.326.2.6 fatal	1626
6.326.2.7 getAnonymousLogger	1626
6.326.2.8 getFilter	1627
6.326.2.9 getLevel	1627
6.326.2.10getLogger	1627
6.326.2.11getName	1627
6.326.2.12getUseParentHandlers	1628
6.326.2.13info	1628
6.326.2.14sLoggable	1628
6.326.2.15log	1628
6.326.2.16log	1629
6.326.2.17log	1629
6.326.2.18log	1629
6.326.2.19removeHandler	1630
6.326.2.20setFilter	1630
6.326.2.21setLevel	1630
6.326.2.22setUseParentHandlers	1630

6.326.2.23	warn	1631
6.327	decaf::util::logging::LoggerHierarchy Class Reference	1632
6.327.1	Constructor & Destructor Documentation	1632
6.327.1.1	LoggerHierarchy	1632
6.327.1.2	~LoggerHierarchy	1632
6.328	activemq::io::LoggingInputStream Class Reference	1633
6.328.1	Constructor & Destructor Documentation	1633
6.328.1.1	LoggingInputStream	1633
6.328.1.2	~LoggingInputStream	1633
6.328.2	Member Function Documentation	1633
6.328.2.1	read	1633
6.328.2.2	read	1634
6.329	activemq::io::LoggingOutputStream Class Reference	1635
6.329.1	Detailed Description	1635
6.329.2	Constructor & Destructor Documentation	1635
6.329.2.1	LoggingOutputStream	1635
6.329.2.2	~LoggingOutputStream	1635
6.329.3	Member Function Documentation	1635
6.329.3.1	write	1635
6.329.3.2	write	1636
6.330	activemq::transport::logging::LoggingTransport Class Reference	1637
6.330.1	Detailed Description	1637
6.330.2	Constructor & Destructor Documentation	1637
6.330.2.1	LoggingTransport	1637
6.330.2.2	~LoggingTransport	1638
6.330.3	Member Function Documentation	1638
6.330.3.1	onCommand	1638
6.330.3.2	oneway	1638
6.330.3.3	request	1638
6.330.3.4	request	1639
6.331	decaf::util::logging::LogManager Class Reference	1640
6.331.1	Detailed Description	1641
6.331.2	Constructor & Destructor Documentation	1642
6.331.2.1	~LogManager	1642
6.331.2.2	LogManager	1642
6.331.2.3	LogManager	1642

6.331.3 Member Function Documentation	1642
6.331.3.1 addPropertyChangeListener	1642
6.331.3.2 destroy	1643
6.331.3.3 getInstance	1643
6.331.3.4 getLogger	1643
6.331.3.5 getLoggerNames	1643
6.331.3.6 getProperties	1643
6.331.3.7 getProperty	1643
6.331.3.8 operator=	1644
6.331.3.9 removePropertyChangeListener	1644
6.331.3.10returnInstance	1644
6.331.3.11setProperties	1644
6.332decaf::util::logging::LogRecord Class Reference	1645
6.332.1 Constructor & Destructor Documentation	1646
6.332.1.1 LogRecord	1646
6.332.1.2 ~LogRecord	1646
6.332.2 Member Function Documentation	1646
6.332.2.1 getLevel	1646
6.332.2.2 getLoggerName	1646
6.332.2.3 getMessage	1646
6.332.2.4 getSourceFile	1646
6.332.2.5 getSourceFunction	1647
6.332.2.6 getSourceLine	1647
6.332.2.7 getTimestamp	1647
6.332.2.8 getTreadId	1647
6.332.2.9 setLevel	1647
6.332.2.10setLoggerName	1647
6.332.2.11setMessage	1648
6.332.2.12setSourceFile	1648
6.332.2.13setSourceFunction	1648
6.332.2.14setSourceLine	1648
6.332.2.15setTimestamp	1648
6.332.2.16setTreadId	1648
6.333decaf::util::logging::LogWriter Class Reference	1650
6.333.1 Constructor & Destructor Documentation	1650
6.333.1.1 LogWriter	1650

6.333.1.2 ~LogWriter	1650
6.333.2 Member Function Documentation	1650
6.333.2.1 destroy	1650
6.333.2.2 getInstance	1650
6.333.2.3 log	1651
6.333.2.4 log	1651
6.333.2.5 returnInstance	1651
6.334decaf::lang::Long Class Reference	1652
6.334.1 Constructor & Destructor Documentation	1654
6.334.1.1 Long	1654
6.334.1.2 Long	1655
6.334.1.3 ~Long	1655
6.334.2 Member Function Documentation	1655
6.334.2.1 bitCount	1655
6.334.2.2 byteValue	1655
6.334.2.3 compareTo	1655
6.334.2.4 compareTo	1656
6.334.2.5 decode	1656
6.334.2.6 doubleValue	1656
6.334.2.7 equals	1656
6.334.2.8 equals	1657
6.334.2.9 float Value	1657
6.334.2.10highestOneBit	1657
6.334.2.11int Value	1657
6.334.2.12ongValue	1658
6.334.2.13lowestOneBit	1658
6.334.2.14numberOfLeadingZeros	1658
6.334.2.15numberOfTrailingZeros	1658
6.334.2.16operator<	1659
6.334.2.17operator<	1659
6.334.2.18operator==	1659
6.334.2.19operator==	1660
6.334.2.20parseLong	1660
6.334.2.21parseLong	1660
6.334.2.22reverse	1661
6.334.2.23reverseBytes	1661

6.334.2.24	rotateLeft	1661
6.334.2.25	rotateRight	1661
6.334.2.26	shortValue	1662
6.334.2.27	signum	1662
6.334.2.28	toBinaryString	1662
6.334.2.29	toHexString	1663
6.334.2.30	toOctalString	1663
6.334.2.31	toString	1663
6.334.2.32	toString	1663
6.334.2.33	toString	1664
6.334.2.34	valueOf	1664
6.334.2.35	valueOf	1664
6.334.2.36	valueOf	1664
6.334.3	Field Documentation	1665
6.334.3.1	MAX_VALUE	1665
6.334.3.2	MIN_VALUE	1665
6.334.3.3	SIZE	1665
6.335	decaf::nio::LongArrayBuffer Class Reference	1666
6.335.1	Constructor & Destructor Documentation	1667
6.335.1.1	LongArrayBuffer	1667
6.335.1.2	LongArrayBuffer	1667
6.335.1.3	LongArrayBuffer	1668
6.335.1.4	LongArrayBuffer	1668
6.335.1.5	~LongArrayBuffer	1668
6.335.2	Member Function Documentation	1668
6.335.2.1	array	1668
6.335.2.2	arrayOffset	1669
6.335.2.3	asReadOnlyBuffer	1669
6.335.2.4	compact	1669
6.335.2.5	duplicate	1670
6.335.2.6	get	1670
6.335.2.7	get	1671
6.335.2.8	hasArray	1671
6.335.2.9	isReadOnly	1671
6.335.2.10	put	1671
6.335.2.11	put	1672

6.335.2.12	setReadOnly	1672
6.335.2.13	slice	1672
6.336	decaf::nio::LongBuffer Class Reference	1674
6.336.1	Detailed Description	1676
6.336.2	Constructor & Destructor Documentation	1676
6.336.2.1	LongBuffer	1676
6.336.2.2	~LongBuffer	1676
6.336.3	Member Function Documentation	1676
6.336.3.1	allocate	1676
6.336.3.2	array	1677
6.336.3.3	arrayOffset	1677
6.336.3.4	asReadOnlyBuffer	1677
6.336.3.5	compact	1678
6.336.3.6	compareTo	1678
6.336.3.7	duplicate	1678
6.336.3.8	equals	1679
6.336.3.9	get	1679
6.336.3.10	get	1679
6.336.3.11	get	1680
6.336.3.12	get	1680
6.336.3.13	hasArray	1680
6.336.3.14	operator<	1680
6.336.3.15	operator==	1681
6.336.3.16	put	1681
6.336.3.17	put	1681
6.336.3.18	put	1682
6.336.3.19	put	1682
6.336.3.20	put	1683
6.336.3.21	slice	1683
6.336.3.22	toString	1684
6.336.3.23	wrap	1684
6.336.3.24	wrap	1684
6.337	activemq::util::LongSequenceGenerator Class Reference	1685
6.337.1	Detailed Description	1685
6.337.2	Constructor & Destructor Documentation	1685
6.337.2.1	LongSequenceGenerator	1685

6.337.2.2 ~LongSequenceGenerator	1685
6.337.3 Member Function Documentation	1685
6.337.3.1 getLastSequenceId	1685
6.337.3.2 getNextSequenceId	1685
6.338decaf::net::MalformedURLException Class Reference	1686
6.338.1 Constructor & Destructor Documentation	1686
6.338.1.1 MalformedURLException	1686
6.338.1.2 MalformedURLException	1686
6.338.1.3 MalformedURLException	1687
6.338.1.4 MalformedURLException	1687
6.338.1.5 MalformedURLException	1687
6.338.1.6 MalformedURLException	1687
6.338.1.7 ~MalformedURLException	1688
6.338.2 Member Function Documentation	1688
6.338.2.1 clone	1688
6.339decaf::util::Map< K, V, COMPARATOR > Class Template Reference	1689
6.339.1 Detailed Description	1690
6.339.2 Constructor & Destructor Documentation	1690
6.339.2.1 Map	1690
6.339.2.2 ~Map	1690
6.339.3 Member Function Documentation	1690
6.339.3.1 clear	1690
6.339.3.2 containsKey	1691
6.339.3.3 containsValue	1692
6.339.3.4 copy	1693
6.339.3.5 equals	1693
6.339.3.6 get	1693
6.339.3.7 get	1694
6.339.3.8 isEmpty	1695
6.339.3.9 keySet	1696
6.339.3.10put	1697
6.339.3.11putAll	1697
6.339.3.12remove	1698
6.339.3.13size	1699
6.339.3.14values	1700
6.340cms::MapMessage Class Reference	1701

6.340.1 Detailed Description	1702
6.340.2 Constructor & Destructor Documentation	1703
6.340.2.1 ~MapMessage	1703
6.340.3 Member Function Documentation	1703
6.340.3.1 getBoolean	1703
6.340.3.2 getByte	1703
6.340.3.3 getBytes	1704
6.340.3.4 getChar	1704
6.340.3.5 getDouble	1704
6.340.3.6 getFloat	1705
6.340.3.7 getInt	1705
6.340.3.8 getLong	1705
6.340.3.9 getMapNames	1705
6.340.3.10 getShort	1706
6.340.3.11 getString	1706
6.340.3.12 itemExists	1706
6.340.3.13 setBoolean	1707
6.340.3.14 setByte	1707
6.340.3.15 setBytes	1707
6.340.3.16 setChar	1708
6.340.3.17 setDouble	1708
6.340.3.18 setFloat	1708
6.340.3.19 setInt	1709
6.340.3.20 setLong	1709
6.340.3.21 setShort	1709
6.340.3.22 setString	1710
6.341 decaf::util::logging::MarkBlockLogger Class Reference	1711
6.341.1 Detailed Description	1711
6.341.2 Constructor & Destructor Documentation	1711
6.341.2.1 MarkBlockLogger	1711
6.341.2.2 ~MarkBlockLogger	1711
6.342 activemq::wireformat::MarshalAware Class Reference	1712
6.342.1 Constructor & Destructor Documentation	1712
6.342.1.1 ~MarshalAware	1712
6.342.2 Member Function Documentation	1712
6.342.2.1 afterMarshal	1712

6.342.2.2	afterUnmarshal	1713
6.342.2.3	beforeMarshal	1713
6.342.2.4	beforeUnmarshal	1713
6.342.2.5	getMarshaledForm	1713
6.342.2.6	isMarshalAware	1714
6.342.2.7	setMarshaledForm	1714
6.343	activemq::wireformat::openwire::marshal::v2::MarshallerFactory Class Reference . .	1715
6.343.1	Detailed Description	1715
6.343.2	Constructor & Destructor Documentation	1715
6.343.2.1	~MarshallerFactory	1715
6.343.3	Member Function Documentation	1715
6.343.3.1	configure	1715
6.344	activemq::wireformat::openwire::marshal::v3::MarshallerFactory Class Reference . .	1716
6.344.1	Detailed Description	1716
6.344.2	Constructor & Destructor Documentation	1716
6.344.2.1	~MarshallerFactory	1716
6.344.3	Member Function Documentation	1716
6.344.3.1	configure	1716
6.345	activemq::wireformat::openwire::marshal::v1::MarshallerFactory Class Reference . .	1717
6.345.1	Detailed Description	1717
6.345.2	Constructor & Destructor Documentation	1717
6.345.2.1	~MarshallerFactory	1717
6.345.3	Member Function Documentation	1717
6.345.3.1	configure	1717
6.346	decaf::lang::Math Class Reference	1718
6.346.1	Detailed Description	1720
6.346.2	Constructor & Destructor Documentation	1720
6.346.2.1	Math	1720
6.346.2.2	~Math	1720
6.346.3	Member Function Documentation	1720
6.346.3.1	abs	1720
6.346.3.2	abs	1720
6.346.3.3	abs	1720
6.346.3.4	abs	1721
6.346.3.5	ceil	1721
6.346.3.6	floor	1722

6.346.3.7 max	1722
6.346.3.8 max	1723
6.346.3.9 max	1723
6.346.3.10max	1723
6.346.3.11max	1724
6.346.3.12min	1724
6.346.3.13min	1724
6.346.3.14min	1725
6.346.3.15min	1725
6.346.3.16min	1725
6.346.3.17min	1725
6.346.3.18pow	1726
6.346.3.19random	1726
6.346.3.20round	1727
6.346.3.21round	1727
6.346.3.22signum	1728
6.346.3.23signum	1728
6.346.3.24qrt	1729
6.346.3.25toDegrees	1732
6.346.3.26toRadians	1732
6.346.4 Field Documentation	1732
6.346.4.1 E	1732
6.346.4.2 PI	1732
6.347activemq::util::MemoryUsage Class Reference	1733
6.347.1 Constructor & Destructor Documentation	1734
6.347.1.1 MemoryUsage	1734
6.347.1.2 MemoryUsage	1734
6.347.1.3 ~MemoryUsage	1734
6.347.2 Member Function Documentation	1734
6.347.2.1 decreaseUsage	1734
6.347.2.2 enqueueUsage	1734
6.347.2.3 getLimit	1734
6.347.2.4 getUsage	1735
6.347.2.5 increaseUsage	1735
6.347.2.6 isFull	1735
6.347.2.7 setLimit	1735

6.347.2.8 setUsage	1735
6.347.2.9 waitForSpace	1735
6.347.2.10waitForSpace	1736
6.348activemq::commands::Message Class Reference	1737
6.348.1 Constructor & Destructor Documentation	1741
6.348.1.1 Message	1741
6.348.1.2 Message	1741
6.348.1.3 ~Message	1741
6.348.2 Member Function Documentation	1741
6.348.2.1 afterUnmarshal	1741
6.348.2.2 beforeMarshal	1741
6.348.2.3 cloneDataStructure	1741
6.348.2.4 copyDataStructure	1742
6.348.2.5 equals	1742
6.348.2.6 getAckHandler	1742
6.348.2.7 getArrival	1743
6.348.2.8 getBrokerInTime	1743
6.348.2.9 getBrokerOutTime	1743
6.348.2.10getBrokerPath	1743
6.348.2.11getBrokerPath	1743
6.348.2.12getCluster	1743
6.348.2.13getCluster	1743
6.348.2.14getContent	1743
6.348.2.15getContent	1743
6.348.2.16getCorrelationId	1743
6.348.2.17getCorrelationId	1743
6.348.2.18getDataStructure	1743
6.348.2.19getDataStructure	1743
6.348.2.20getDataStructureType	1743
6.348.2.21getDestination	1744
6.348.2.22getDestination	1744
6.348.2.23getExpiration	1744
6.348.2.24getGroupID	1744
6.348.2.25getGroupID	1744
6.348.2.26getGroupSequence	1744
6.348.2.27getMarshallledProperties	1744

6.348.2.28	getMarshaledProperties	1744
6.348.2.29	getMessageId	1744
6.348.2.30	getMessageId	1744
6.348.2.31	getMessageProperties	1744
6.348.2.32	getMessageProperties	1744
6.348.2.33	getOriginalDestination	1745
6.348.2.34	getOriginalDestination	1745
6.348.2.35	getOriginalTransactionId	1745
6.348.2.36	getOriginalTransactionId	1745
6.348.2.37	getPriority	1745
6.348.2.38	getProducerId	1745
6.348.2.39	getProducerId	1745
6.348.2.40	getRedeliveryCounter	1745
6.348.2.41	getReplyTo	1745
6.348.2.42	getReplyTo	1745
6.348.2.43	getSize	1745
6.348.2.44	getTargetConsumerId	1746
6.348.2.45	getTargetConsumerId	1746
6.348.2.46	getTimestamp	1746
6.348.2.47	getTransactionId	1746
6.348.2.48	getTransactionId	1746
6.348.2.49	getType	1746
6.348.2.50	getType	1746
6.348.2.51	getUserID	1746
6.348.2.52	getUserID	1746
6.348.2.53	isCompressed	1746
6.348.2.54	isDroppable	1746
6.348.2.55	isExpired	1746
6.348.2.56	isMarshalAware	1746
6.348.2.57	isMessage	1747
6.348.2.58	isPersistent	1747
6.348.2.59	isReadOnlyBody	1747
6.348.2.60	isReadOnlyProperties	1747
6.348.2.61	isRecievedByDFBridge	1747
6.348.2.62	operator=	1747
6.348.2.63	setAckHandler	1747

6.348.2.64	setArrival	1748
6.348.2.65	setBrokerInTime	1748
6.348.2.66	setBrokerOutTime	1748
6.348.2.67	setBrokerPath	1748
6.348.2.68	setCluster	1748
6.348.2.69	setCompressed	1748
6.348.2.70	setContent	1748
6.348.2.71	setCorrelationId	1748
6.348.2.72	setDataStructure	1748
6.348.2.73	setDestination	1748
6.348.2.74	setDroppable	1748
6.348.2.75	setExpiration	1748
6.348.2.76	setGroupID	1748
6.348.2.77	setGroupSequence	1748
6.348.2.78	setMarshaledProperties	1748
6.348.2.79	setMessageId	1748
6.348.2.80	setOriginalDestination	1748
6.348.2.81	setOriginalTransactionId	1748
6.348.2.82	setPersistent	1748
6.348.2.83	setPriority	1748
6.348.2.84	setProducerId	1748
6.348.2.85	setReadOnlyBody	1748
6.348.2.86	setReadOnlyProperties	1749
6.348.2.87	setRecievedByDFBridge	1749
6.348.2.88	setRedeliveryCounter	1749
6.348.2.89	setReplyTo	1749
6.348.2.90	setTargetConsumerId	1749
6.348.2.91	setTimestamp	1749
6.348.2.92	setTransactionId	1749
6.348.2.93	setType	1749
6.348.2.94	setUserID	1749
6.348.2.95	toString	1749
6.348.2.96	visit	1750
6.348.3	Field Documentation	1751
6.348.3.1	arrival	1751
6.348.3.2	brokerInTime	1751

6.348.3.3 brokerOutTime	1751
6.348.3.4 brokerPath	1751
6.348.3.5 cluster	1751
6.348.3.6 compressed	1751
6.348.3.7 content	1751
6.348.3.8 correlationId	1751
6.348.3.9 dataStructure	1751
6.348.3.10DEFAULT_MESSAGE_SIZE	1751
6.348.3.11destination	1751
6.348.3.12droppable	1751
6.348.3.13expiration	1751
6.348.3.14groupId	1751
6.348.3.15groupSequence	1751
6.348.3.16ID_MESSAGE	1751
6.348.3.17marshalledProperties	1751
6.348.3.18messageId	1751
6.348.3.19originalDestination	1751
6.348.3.20originalTransactionId	1751
6.348.3.21persistent	1751
6.348.3.22priority	1751
6.348.3.23producerId	1751
6.348.3.24recievedByDFBridge	1751
6.348.3.25redeliveryCounter	1751
6.348.3.26replyTo	1751
6.348.3.27targetConsumerId	1751
6.348.3.28timestamp	1751
6.348.3.29ransactionId	1751
6.348.3.30type	1751
6.348.3.31userId	1751
6.349cms::Message Class Reference	1753
6.349.1 Detailed Description	1756
6.349.2 Constructor & Destructor Documentation	1757
6.349.2.1 ~Message	1757
6.349.3 Member Function Documentation	1757
6.349.3.1 acknowledge	1757
6.349.3.2 clearBody	1757

6.349.3.3 clearProperties	1758
6.349.3.4 clone	1758
6.349.3.5 getBooleanProperty	1758
6.349.3.6 getByteProperty	1759
6.349.3.7 getCMSCorrelationID	1759
6.349.3.8 getCMSDeliveryMode	1760
6.349.3.9 getCMSDestination	1760
6.349.3.10 getCMSExpiration	1761
6.349.3.11 getCMSMessageID	1761
6.349.3.12 getCMSPriority	1762
6.349.3.13 getCMSRedelivered	1762
6.349.3.14 getCMSReplyTo	1763
6.349.3.15 getCMSTimestamp	1763
6.349.3.16 getCMSType	1764
6.349.3.17 getDoubleProperty	1764
6.349.3.18 getFloatProperty	1765
6.349.3.19 getIntProperty	1765
6.349.3.20 getLongProperty	1766
6.349.3.21 getPropertyNames	1766
6.349.3.22 getShortProperty	1767
6.349.3.23 getStringProperty	1767
6.349.3.24 propertyExists	1768
6.349.3.25 setBooleanProperty	1768
6.349.3.26 setByteProperty	1768
6.349.3.27 setCMSCorrelationID	1769
6.349.3.28 setCMSDeliveryMode	1770
6.349.3.29 setCMSDestination	1770
6.349.3.30 setCMSExpiration	1771
6.349.3.31 setCMSMessageID	1771
6.349.3.32 setCMSPriority	1771
6.349.3.33 setCMSRedelivered	1772
6.349.3.34 setCMSReplyTo	1772
6.349.3.35 setCMSTimestamp	1773
6.349.3.36 setCMSType	1773
6.349.3.37 setDoubleProperty	1774
6.349.3.38 setFloatProperty	1774

6.349.3.39	setIntProperty	1775
6.349.3.40	setLongProperty	1775
6.349.3.41	setShortProperty	1776
6.349.3.42	setStringProperty	1776
6.350	activemq::commands::MessageAck Class Reference	1777
6.350.1	Constructor & Destructor Documentation	1778
6.350.1.1	MessageAck	1778
6.350.1.2	MessageAck	1778
6.350.1.3	~MessageAck	1778
6.350.2	Member Function Documentation	1778
6.350.2.1	cloneDataStructure	1778
6.350.2.2	copyDataStructure	1778
6.350.2.3	equals	1779
6.350.2.4	getAckType	1779
6.350.2.5	getConsumerId	1779
6.350.2.6	getConsumerId	1779
6.350.2.7	getDataStructureType	1779
6.350.2.8	getDestination	1780
6.350.2.9	getDestination	1780
6.350.2.10	getFirstMessageId	1780
6.350.2.11	getFirstMessageId	1780
6.350.2.12	getLastMessageId	1780
6.350.2.13	getLastMessageId	1780
6.350.2.14	getMessageCount	1780
6.350.2.15	getTransactionId	1780
6.350.2.16	getTransactionId	1780
6.350.2.17	isMessageAck	1780
6.350.2.18	operator=	1781
6.350.2.19	setAckType	1781
6.350.2.20	setConsumerId	1781
6.350.2.21	setDestination	1781
6.350.2.22	setFirstMessageId	1781
6.350.2.23	setLastMessageId	1781
6.350.2.24	setMessageCount	1781
6.350.2.25	setTransactionId	1781
6.350.2.26	toString	1781

6.350.2.27	visit	1781
6.350.3	Field Documentation	1782
6.350.3.1	ackType	1782
6.350.3.2	consumerId	1782
6.350.3.3	destination	1782
6.350.3.4	firstMessageId	1782
6.350.3.5	ID_MESSAGEACK	1782
6.350.3.6	lastMessageId	1782
6.350.3.7	messageCount	1782
6.350.3.8	transactionId	1782
6.351	activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller Class Reference	1783
6.351.1	Detailed Description	1783
6.351.2	Constructor & Destructor Documentation	1784
6.351.2.1	MessageAckMarshaller	1784
6.351.2.2	~MessageAckMarshaller	1784
6.351.3	Member Function Documentation	1784
6.351.3.1	createObject	1784
6.351.3.2	getDataStructureType	1784
6.351.3.3	looseMarshal	1784
6.351.3.4	looseUnmarshal	1785
6.351.3.5	tightMarshal1	1785
6.351.3.6	tightMarshal2	1786
6.351.3.7	tightUnmarshal	1786
6.352	activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller Class Reference	1787
6.352.1	Detailed Description	1787
6.352.2	Constructor & Destructor Documentation	1788
6.352.2.1	MessageAckMarshaller	1788
6.352.2.2	~MessageAckMarshaller	1788
6.352.3	Member Function Documentation	1788
6.352.3.1	createObject	1788
6.352.3.2	getDataStructureType	1788
6.352.3.3	looseMarshal	1788
6.352.3.4	looseUnmarshal	1789
6.352.3.5	tightMarshal1	1789
6.352.3.6	tightMarshal2	1790
6.352.3.7	tightUnmarshal	1790

6.353	activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller Class Reference	1791
6.353.1	Detailed Description	1791
6.353.2	Constructor & Destructor Documentation	1792
6.353.2.1	MessageAckMarshaller	1792
6.353.2.2	~MessageAckMarshaller	1792
6.353.3	Member Function Documentation	1792
6.353.3.1	createObject	1792
6.353.3.2	getDataStructureType	1792
6.353.3.3	looseMarshal	1792
6.353.3.4	looseUnmarshal	1793
6.353.3.5	tightMarshal1	1793
6.353.3.6	tightMarshal2	1794
6.353.3.7	tightUnmarshal	1794
6.354	cms::MessageConsumer Class Reference	1795
6.354.1	Detailed Description	1795
6.354.2	Constructor & Destructor Documentation	1796
6.354.2.1	~MessageConsumer	1796
6.354.3	Member Function Documentation	1796
6.354.3.1	getMessageListener	1796
6.354.3.2	getMessageSelector	1796
6.354.3.3	receive	1796
6.354.3.4	receive	1797
6.354.3.5	receiveNoWait	1797
6.354.3.6	setMessageListener	1797
6.355	activemq::cmsutil::MessageCreator Class Reference	1799
6.355.1	Detailed Description	1799
6.355.2	Constructor & Destructor Documentation	1799
6.355.2.1	~MessageCreator	1799
6.355.3	Member Function Documentation	1799
6.355.3.1	createMessage	1799
6.356	activemq::commands::MessageDispatch Class Reference	1800
6.356.1	Constructor & Destructor Documentation	1801
6.356.1.1	MessageDispatch	1801
6.356.1.2	MessageDispatch	1801
6.356.1.3	~MessageDispatch	1801
6.356.2	Member Function Documentation	1801

6.356.2.1 cloneDataStructure	1801
6.356.2.2 copyDataStructure	1801
6.356.2.3 equals	1802
6.356.2.4 getConsumerId	1802
6.356.2.5 getConsumerId	1802
6.356.2.6 getDataStructureType	1802
6.356.2.7 getDestination	1803
6.356.2.8 getDestination	1803
6.356.2.9 getMessage	1803
6.356.2.10getMessage	1803
6.356.2.11getRedeliveryCounter	1803
6.356.2.12sMessageDispatch	1803
6.356.2.13operator=	1803
6.356.2.14setConsumerId	1803
6.356.2.15setDestination	1803
6.356.2.16setMessage	1803
6.356.2.17setRedeliveryCounter	1803
6.356.2.18toString	1803
6.356.2.19visit	1804
6.356.3 Field Documentation	1804
6.356.3.1 consumerId	1804
6.356.3.2 destination	1804
6.356.3.3 ID_MESSAGE_DISPATCH	1804
6.356.3.4 message	1804
6.356.3.5 redeliveryCounter	1804
6.357activemq::core::MessageDispatchChannel Class Reference	1805
6.357.1 Constructor & Destructor Documentation	1806
6.357.1.1 MessageDispatchChannel	1806
6.357.1.2 ~MessageDispatchChannel	1806
6.357.2 Member Function Documentation	1806
6.357.2.1 clear	1806
6.357.2.2 close	1806
6.357.2.3 dequeue	1806
6.357.2.4 dequeueNoWait	1807
6.357.2.5 enqueue	1807
6.357.2.6 enqueueFirst	1807

6.357.2.7	isClosed	1807
6.357.2.8	isEmpty	1807
6.357.2.9	isRunning	1807
6.357.2.10	lock	1808
6.357.2.11	notify	1808
6.357.2.12	notifyAll	1808
6.357.2.13	peek	1808
6.357.2.14	removeAll	1808
6.357.2.15	size	1809
6.357.2.16	start	1809
6.357.2.17	stop	1809
6.357.2.18	unlock	1809
6.357.2.19	wait	1809
6.357.2.20	wait	1809
6.358	activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller Class	
	Reference	1811
6.358.1	Detailed Description	1811
6.358.2	Constructor & Destructor Documentation	1812
6.358.2.1	MessageDispatchMarshaller	1812
6.358.2.2	~MessageDispatchMarshaller	1812
6.358.3	Member Function Documentation	1812
6.358.3.1	createObject	1812
6.358.3.2	getDataStructureType	1812
6.358.3.3	looseMarshal	1812
6.358.3.4	looseUnmarshal	1813
6.358.3.5	tightMarshal1	1813
6.358.3.6	tightMarshal2	1814
6.358.3.7	tightUnmarshal	1814
6.359	activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller Class	
	Reference	1815
6.359.1	Detailed Description	1815
6.359.2	Constructor & Destructor Documentation	1816
6.359.2.1	MessageDispatchMarshaller	1816
6.359.2.2	~MessageDispatchMarshaller	1816
6.359.3	Member Function Documentation	1816
6.359.3.1	createObject	1816
6.359.3.2	getDataStructureType	1816

6.359.3.3 looseMarshal	1816
6.359.3.4 looseUnmarshal	1817
6.359.3.5 tightMarshal1	1817
6.359.3.6 tightMarshal2	1818
6.359.3.7 tightUnmarshal	1818
6.360activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller Class Reference	1819
6.360.1 Detailed Description	1819
6.360.2 Constructor & Destructor Documentation	1820
6.360.2.1 MessageDispatchMarshaller	1820
6.360.2.2 ~MessageDispatchMarshaller	1820
6.360.3 Member Function Documentation	1820
6.360.3.1 createObject	1820
6.360.3.2 getDataStructureType	1820
6.360.3.3 looseMarshal	1820
6.360.3.4 looseUnmarshal	1821
6.360.3.5 tightMarshal1	1821
6.360.3.6 tightMarshal2	1822
6.360.3.7 tightUnmarshal	1822
6.361activemq::commands::MessageDispatchNotification Class Reference	1823
6.361.1 Constructor & Destructor Documentation	1824
6.361.1.1 MessageDispatchNotification	1824
6.361.1.2 MessageDispatchNotification	1824
6.361.1.3 ~MessageDispatchNotification	1824
6.361.2 Member Function Documentation	1824
6.361.2.1 cloneDataStructure	1824
6.361.2.2 copyDataStructure	1824
6.361.2.3 equals	1825
6.361.2.4 getConsumerId	1825
6.361.2.5 getConsumerId	1825
6.361.2.6 getDataStructureType	1825
6.361.2.7 getDeliverySequenceId	1826
6.361.2.8 getDestination	1826
6.361.2.9 getDestination	1826
6.361.2.10getMessageId	1826
6.361.2.11getMessageId	1826
6.361.2.12sMessageDispatchNotification	1826

6.361.2.13	operator=	1827
6.361.2.14	setConsumerId	1827
6.361.2.15	setDeliverySequenceId	1827
6.361.2.16	setDestination	1827
6.361.2.17	setMessageId	1827
6.361.2.18	toString	1827
6.361.2.19	visit	1827
6.361.3	Field Documentation	1828
6.361.3.1	consumerId	1828
6.361.3.2	deliverySequenceId	1828
6.361.3.3	destination	1828
6.361.3.4	ID_MESSAGEDISPATCHNOTIFICATION	1828
6.361.3.5	messageId	1828
6.362	activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller	
	Class Reference	1829
6.362.1	Detailed Description	1829
6.362.2	Constructor & Destructor Documentation	1830
6.362.2.1	MessageDispatchNotificationMarshaller	1830
6.362.2.2	~MessageDispatchNotificationMarshaller	1830
6.362.3	Member Function Documentation	1830
6.362.3.1	createObject	1830
6.362.3.2	getDataStructureType	1830
6.362.3.3	looseMarshal	1830
6.362.3.4	looseUnmarshal	1831
6.362.3.5	tightMarshal1	1831
6.362.3.6	tightMarshal2	1832
6.362.3.7	tightUnmarshal	1832
6.363	activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller	
	Class Reference	1833
6.363.1	Detailed Description	1833
6.363.2	Constructor & Destructor Documentation	1834
6.363.2.1	MessageDispatchNotificationMarshaller	1834
6.363.2.2	~MessageDispatchNotificationMarshaller	1834
6.363.3	Member Function Documentation	1834
6.363.3.1	createObject	1834
6.363.3.2	getDataStructureType	1834
6.363.3.3	looseMarshal	1834

6.363.3.4 looseUnmarshal	1835
6.363.3.5 tightMarshal1	1835
6.363.3.6 tightMarshal2	1836
6.363.3.7 tightUnmarshal	1836
6.364activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller	
Class Reference	1837
6.364.1 Detailed Description	1837
6.364.2 Constructor & Destructor Documentation	1838
6.364.2.1 MessageDispatchNotificationMarshaller	1838
6.364.2.2 ~MessageDispatchNotificationMarshaller	1838
6.364.3 Member Function Documentation	1838
6.364.3.1 createObject	1838
6.364.3.2 getDataStructureType	1838
6.364.3.3 looseMarshal	1838
6.364.3.4 looseUnmarshal	1839
6.364.3.5 tightMarshal1	1839
6.364.3.6 tightMarshal2	1840
6.364.3.7 tightUnmarshal	1840
6.365cms::MessageEOFException Class Reference	1841
6.365.1 Detailed Description	1841
6.365.2 Constructor & Destructor Documentation	1841
6.365.2.1 MessageEOFException	1841
6.365.2.2 MessageEOFException	1841
6.365.2.3 MessageEOFException	1841
6.365.2.4 MessageEOFException	1841
6.365.2.5 ~MessageEOFException	1841
6.366cms::MessageFormatException Class Reference	1842
6.366.1 Detailed Description	1842
6.366.2 Constructor & Destructor Documentation	1842
6.366.2.1 MessageFormatException	1842
6.366.2.2 MessageFormatException	1842
6.366.2.3 MessageFormatException	1842
6.366.2.4 MessageFormatException	1842
6.366.2.5 ~MessageFormatException	1842
6.367activemq::commands::MessageId Class Reference	1843
6.367.1 Member Typedef Documentation	1844
6.367.1.1 COMPARATOR	1844

6.367.2 Constructor & Destructor Documentation	1844
6.367.2.1 MessageId	1844
6.367.2.2 MessageId	1844
6.367.2.3 ~MessageId	1844
6.367.3 Member Function Documentation	1844
6.367.3.1 cloneDataStructure	1844
6.367.3.2 compareTo	1844
6.367.3.3 copyDataStructure	1844
6.367.3.4 equals	1844
6.367.3.5 equals	1844
6.367.3.6 getBrokerSequenceId	1845
6.367.3.7 getDataStructureType	1845
6.367.3.8 getProducerId	1846
6.367.3.9 getProducerId	1846
6.367.3.10 getProducerSequenceId	1846
6.367.3.11 operator<	1846
6.367.3.12 operator=	1846
6.367.3.13 operator==	1846
6.367.3.14 setBrokerSequenceId	1846
6.367.3.15 setProducerId	1846
6.367.3.16 setProducerSequenceId	1846
6.367.3.17 toString	1846
6.367.4 Field Documentation	1847
6.367.4.1 brokerSequenceId	1847
6.367.4.2 ID_MESSAGEID	1847
6.367.4.3 producerId	1847
6.367.4.4 producerSequenceId	1847
6.368 activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller Class Reference	1848
6.368.1 Detailed Description	1848
6.368.2 Constructor & Destructor Documentation	1849
6.368.2.1 MessageIdMarshaller	1849
6.368.2.2 ~MessageIdMarshaller	1849
6.368.3 Member Function Documentation	1849
6.368.3.1 createObject	1849
6.368.3.2 getDataStructureType	1849
6.368.3.3 looseMarshal	1849

6.368.3.4 looseUnmarshal	1850
6.368.3.5 tightMarshal1	1850
6.368.3.6 tightMarshal2	1851
6.368.3.7 tightUnmarshal	1851
6.369activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller Class Reference	1852
6.369.1 Detailed Description	1852
6.369.2 Constructor & Destructor Documentation	1853
6.369.2.1 MessageIdMarshaller	1853
6.369.2.2 ~MessageIdMarshaller	1853
6.369.3 Member Function Documentation	1853
6.369.3.1 createObject	1853
6.369.3.2 getDataStructureType	1853
6.369.3.3 looseMarshal	1853
6.369.3.4 looseUnmarshal	1854
6.369.3.5 tightMarshal1	1854
6.369.3.6 tightMarshal2	1855
6.369.3.7 tightUnmarshal	1855
6.370activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller Class Reference	1856
6.370.1 Detailed Description	1856
6.370.2 Constructor & Destructor Documentation	1857
6.370.2.1 MessageIdMarshaller	1857
6.370.2.2 ~MessageIdMarshaller	1857
6.370.3 Member Function Documentation	1857
6.370.3.1 createObject	1857
6.370.3.2 getDataStructureType	1857
6.370.3.3 looseMarshal	1857
6.370.3.4 looseUnmarshal	1858
6.370.3.5 tightMarshal1	1858
6.370.3.6 tightMarshal2	1859
6.370.3.7 tightUnmarshal	1859
6.371cms::MessageListener Class Reference	1860
6.371.1 Detailed Description	1860
6.371.2 Constructor & Destructor Documentation	1860
6.371.2.1 ~MessageListener	1860
6.371.3 Member Function Documentation	1860
6.371.3.1 onMessage	1860

6.372activemq::wireformat::openwire::marshal::v2::MessageMarshaller Class Reference . . .	1861
6.372.1 Detailed Description	1861
6.372.2 Constructor & Destructor Documentation	1862
6.372.2.1 MessageMarshaller	1862
6.372.2.2 ~MessageMarshaller	1862
6.372.3 Member Function Documentation	1862
6.372.3.1 looseMarshal	1862
6.372.3.2 looseUnmarshal	1862
6.372.3.3 tightMarshal1	1863
6.372.3.4 tightMarshal2	1864
6.372.3.5 tightUnmarshal	1864
6.373activemq::wireformat::openwire::marshal::v3::MessageMarshaller Class Reference . . .	1866
6.373.1 Detailed Description	1866
6.373.2 Constructor & Destructor Documentation	1867
6.373.2.1 MessageMarshaller	1867
6.373.2.2 ~MessageMarshaller	1867
6.373.3 Member Function Documentation	1867
6.373.3.1 looseMarshal	1867
6.373.3.2 looseUnmarshal	1867
6.373.3.3 tightMarshal1	1868
6.373.3.4 tightMarshal2	1869
6.373.3.5 tightUnmarshal	1869
6.374activemq::wireformat::openwire::marshal::v1::MessageMarshaller Class Reference . . .	1871
6.374.1 Detailed Description	1871
6.374.2 Constructor & Destructor Documentation	1872
6.374.2.1 MessageMarshaller	1872
6.374.2.2 ~MessageMarshaller	1872
6.374.3 Member Function Documentation	1872
6.374.3.1 looseMarshal	1872
6.374.3.2 looseUnmarshal	1872
6.374.3.3 tightMarshal1	1873
6.374.3.4 tightMarshal2	1874
6.374.3.5 tightUnmarshal	1874
6.375cms::MessageNotReadableException Class Reference	1876
6.375.1 Detailed Description	1876
6.375.2 Constructor & Destructor Documentation	1876

6.375.2.1 MessageNotReadableException	1876
6.375.2.2 MessageNotReadableException	1876
6.375.2.3 MessageNotReadableException	1876
6.375.2.4 MessageNotReadableException	1876
6.375.2.5 ~MessageNotReadableException	1876
6.376cms::MessageNotWriteableException Class Reference	1877
6.376.1 Detailed Description	1877
6.376.2 Constructor & Destructor Documentation	1877
6.376.2.1 MessageNotWriteableException	1877
6.376.2.2 MessageNotWriteableException	1877
6.376.2.3 MessageNotWriteableException	1877
6.376.2.4 MessageNotWriteableException	1877
6.376.2.5 ~MessageNotWriteableException	1877
6.377cms::MessageProducer Class Reference	1878
6.377.1 Detailed Description	1879
6.377.2 Constructor & Destructor Documentation	1879
6.377.2.1 ~MessageProducer	1879
6.377.3 Member Function Documentation	1879
6.377.3.1 getDeliveryMode	1879
6.377.3.2 getDisableMessageID	1880
6.377.3.3 getDisableMessageTimeStamp	1880
6.377.3.4 getPriority	1880
6.377.3.5 getTimeToLive	1880
6.377.3.6 send	1881
6.377.3.7 send	1881
6.377.3.8 send	1882
6.377.3.9 send	1882
6.377.3.10 setDeliveryMode	1882
6.377.3.11 setDisableMessageID	1883
6.377.3.12 setDisableMessageTimeStamp	1883
6.377.3.13 setPriority	1883
6.377.3.14 setTimeToLive	1883
6.378activemq::wireformat::openwire::utils::MessagePropertyInterceptor Class Reference	1885
6.378.1 Detailed Description	1886
6.378.2 Constructor & Destructor Documentation	1886
6.378.2.1 MessagePropertyInterceptor	1886

6.378.2.2	~MessagePropertyInterceptor	1887
6.378.3	Member Function Documentation	1887
6.378.3.1	getBooleanProperty	1887
6.378.3.2	getByteProperty	1887
6.378.3.3	getDoubleProperty	1888
6.378.3.4	getFloatProperty	1888
6.378.3.5	getIntProperty	1888
6.378.3.6	getLongProperty	1889
6.378.3.7	getShortProperty	1889
6.378.3.8	getStringProperty	1889
6.378.3.9	setBooleanProperty	1890
6.378.3.10	setByteProperty	1890
6.378.3.11	setDoubleProperty	1890
6.378.3.12	setFloatProperty	1891
6.378.3.13	setIntProperty	1891
6.378.3.14	setLongProperty	1891
6.378.3.15	setShortProperty	1892
6.378.3.16	setStringProperty	1892
6.379	activemq::commands::MessagePull Class Reference	1893
6.379.1	Constructor & Destructor Documentation	1894
6.379.1.1	MessagePull	1894
6.379.1.2	MessagePull	1894
6.379.1.3	~MessagePull	1894
6.379.2	Member Function Documentation	1894
6.379.2.1	cloneDataStructure	1894
6.379.2.2	copyDataStructure	1894
6.379.2.3	equals	1895
6.379.2.4	getConsumerId	1895
6.379.2.5	getConsumerId	1895
6.379.2.6	getCorrelationId	1895
6.379.2.7	getCorrelationId	1895
6.379.2.8	getDataStructureType	1895
6.379.2.9	getDestination	1896
6.379.2.10	getDestination	1896
6.379.2.11	getMessageId	1896
6.379.2.12	getMessageId	1896

6.379.2.13	getTimeout	1896
6.379.2.14	operator=	1896
6.379.2.15	setConsumerId	1896
6.379.2.16	setCorrelationId	1896
6.379.2.17	setDestination	1896
6.379.2.18	setMessageId	1896
6.379.2.19	setTimeout	1896
6.379.2.20	toString	1896
6.379.2.21	visit	1896
6.379.3	Field Documentation	1897
6.379.3.1	consumerId	1897
6.379.3.2	correlationId	1897
6.379.3.3	destination	1897
6.379.3.4	ID_MESSAGEPULL	1897
6.379.3.5	messageId	1897
6.379.3.6	timeout	1897
6.380	activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller Class Reference	1898
6.380.1	Detailed Description	1898
6.380.2	Constructor & Destructor Documentation	1899
6.380.2.1	MessagePullMarshaller	1899
6.380.2.2	~MessagePullMarshaller	1899
6.380.3	Member Function Documentation	1899
6.380.3.1	createObject	1899
6.380.3.2	getDataStructureType	1899
6.380.3.3	looseMarshal	1899
6.380.3.4	looseUnmarshal	1900
6.380.3.5	tightMarshal1	1900
6.380.3.6	tightMarshal2	1901
6.380.3.7	tightUnmarshal	1901
6.381	activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller Class Reference	1902
6.381.1	Detailed Description	1902
6.381.2	Constructor & Destructor Documentation	1903
6.381.2.1	MessagePullMarshaller	1903
6.381.2.2	~MessagePullMarshaller	1903
6.381.3	Member Function Documentation	1903
6.381.3.1	createObject	1903

6.381.3.2	getDataStructureType	1903
6.381.3.3	looseMarshal	1903
6.381.3.4	looseUnmarshal	1904
6.381.3.5	tightMarshal1	1904
6.381.3.6	tightMarshal2	1905
6.381.3.7	tightUnmarshal	1905
6.382	activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller Class Reference	1906
6.382.1	Detailed Description	1906
6.382.2	Constructor & Destructor Documentation	1907
6.382.2.1	MessagePullMarshaller	1907
6.382.2.2	~MessagePullMarshaller	1907
6.382.3	Member Function Documentation	1907
6.382.3.1	createObject	1907
6.382.3.2	getDataStructureType	1907
6.382.3.3	looseMarshal	1907
6.382.3.4	looseUnmarshal	1908
6.382.3.5	tightMarshal1	1908
6.382.3.6	tightMarshal2	1909
6.382.3.7	tightUnmarshal	1909
6.383	activemq::transport::mock::MockTransport Class Reference	1910
6.383.1	Detailed Description	1912
6.383.2	Constructor & Destructor Documentation	1912
6.383.2.1	MockTransport	1912
6.383.2.2	~MockTransport	1912
6.383.3	Member Function Documentation	1912
6.383.3.1	close	1912
6.383.3.2	fireCommand	1912
6.383.3.3	fireException	1912
6.383.3.4	getInstance	1913
6.383.3.5	getNumReceivedMessageBeforeFail	1913
6.383.3.6	getNumReceivedMessages	1913
6.383.3.7	getNumSentMessageBeforeFail	1913
6.383.3.8	getNumSentMessages	1913
6.383.3.9	getRemoteAddress	1913
6.383.3.10	getTransportListener	1913
6.383.3.11	isClosed	1913

6.383.3.12	sConnected	1914
6.383.3.13	sFailOnReceiveMessage	1914
6.383.3.14	sFailOnSendMessage	1914
6.383.3.15	sFaultTolerant	1914
6.383.3.16	narrow	1914
6.383.3.17	neway	1914
6.383.3.18	reconnect	1915
6.383.3.19	request	1915
6.383.3.20	request	1915
6.383.3.21	setFailOnReceiveMessage	1916
6.383.3.22	setFailOnSendMessage	1916
6.383.3.23	setNumReceivedMessageBeforeFail	1916
6.383.3.24	setNumReceivedMessages	1916
6.383.3.25	setNumSentMessageBeforeFail	1916
6.383.3.26	setNumSentMessages	1916
6.383.3.27	setOutgoingListener	1916
6.383.3.28	setResponseBuilder	1916
6.383.3.29	setTransportListener	1917
6.383.3.30	setWireFormat	1917
6.383.3.31	start	1917
6.384	activemq::transport::mock::MockTransportFactory Class Reference	1918
6.384.1	Detailed Description	1918
6.384.2	Constructor & Destructor Documentation	1919
6.384.2.1	~MockTransportFactory	1919
6.384.3	Member Function Documentation	1919
6.384.3.1	create	1919
6.384.3.2	createComposite	1919
6.384.3.3	doCreateComposite	1919
6.385	decaf::util::concurrent::Mutex Class Reference	1921
6.385.1	Detailed Description	1921
6.385.2	Constructor & Destructor Documentation	1921
6.385.2.1	Mutex	1921
6.385.2.2	~Mutex	1922
6.385.3	Member Function Documentation	1922
6.385.3.1	lock	1922
6.385.3.2	notify	1922

6.385.3.3	notifyAll	1922
6.385.3.4	unlock	1923
6.385.3.5	wait	1923
6.385.3.6	wait	1923
6.386	activemq::commands::NetworkBridgeFilter Class Reference	1924
6.386.1	Constructor & Destructor Documentation	1925
6.386.1.1	NetworkBridgeFilter	1925
6.386.1.2	NetworkBridgeFilter	1925
6.386.1.3	~NetworkBridgeFilter	1925
6.386.2	Member Function Documentation	1925
6.386.2.1	cloneDataStructure	1925
6.386.2.2	copyDataStructure	1925
6.386.2.3	equals	1925
6.386.2.4	getDataStructureType	1925
6.386.2.5	getNetworkBrokerId	1926
6.386.2.6	getNetworkBrokerId	1926
6.386.2.7	getNetworkTTL	1926
6.386.2.8	operator=	1926
6.386.2.9	setNetworkBrokerId	1926
6.386.2.10	setNetworkTTL	1926
6.386.2.11	toString	1926
6.386.3	Field Documentation	1926
6.386.3.1	ID_NETWORKBRIDGEFILTER	1926
6.386.3.2	networkBrokerId	1926
6.386.3.3	networkTTL	1926
6.387	activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller Class Reference	1927
6.387.1	Detailed Description	1927
6.387.2	Constructor & Destructor Documentation	1928
6.387.2.1	NetworkBridgeFilterMarshaller	1928
6.387.2.2	~NetworkBridgeFilterMarshaller	1928
6.387.3	Member Function Documentation	1928
6.387.3.1	createObject	1928
6.387.3.2	getDataStructureType	1928
6.387.3.3	looseMarshal	1928
6.387.3.4	looseUnmarshal	1929
6.387.3.5	tightMarshal	1929

6.387.3.6	tightMarshal2	1930
6.387.3.7	tightUnmarshal	1930
6.388	activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller Class	
	Reference	1931
6.388.1	Detailed Description	1931
6.388.2	Constructor & Destructor Documentation	1932
6.388.2.1	NetworkBridgeFilterMarshaller	1932
6.388.2.2	~NetworkBridgeFilterMarshaller	1932
6.388.3	Member Function Documentation	1932
6.388.3.1	createObject	1932
6.388.3.2	getDataStructureType	1932
6.388.3.3	looseMarshal	1932
6.388.3.4	looseUnmarshal	1933
6.388.3.5	tightMarshal1	1933
6.388.3.6	tightMarshal2	1934
6.388.3.7	tightUnmarshal	1934
6.389	activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller Class	
	Reference	1935
6.389.1	Detailed Description	1935
6.389.2	Constructor & Destructor Documentation	1936
6.389.2.1	NetworkBridgeFilterMarshaller	1936
6.389.2.2	~NetworkBridgeFilterMarshaller	1936
6.389.3	Member Function Documentation	1936
6.389.3.1	createObject	1936
6.389.3.2	getDataStructureType	1936
6.389.3.3	looseMarshal	1936
6.389.3.4	looseUnmarshal	1937
6.389.3.5	tightMarshal1	1937
6.389.3.6	tightMarshal2	1938
6.389.3.7	tightUnmarshal	1938
6.390	decaf::net::NoRouteToHostException Class Reference	1939
6.390.1	Constructor & Destructor Documentation	1939
6.390.1.1	NoRouteToHostException	1939
6.390.1.2	NoRouteToHostException	1939
6.390.1.3	NoRouteToHostException	1940
6.390.1.4	NoRouteToHostException	1940
6.390.1.5	NoRouteToHostException	1940

6.390.1.6 NoRouteToHostException	1940
6.390.1.7 ~NoRouteToHostException	1941
6.390.2 Member Function Documentation	1941
6.390.2.1 clone	1941
6.391decaf::security::NoSuchAlgorithmException Class Reference	1942
6.391.1 Constructor & Destructor Documentation	1942
6.391.1.1 NoSuchAlgorithmException	1942
6.391.1.2 NoSuchAlgorithmException	1942
6.391.1.3 NoSuchAlgorithmException	1943
6.391.1.4 NoSuchAlgorithmException	1943
6.391.1.5 NoSuchAlgorithmException	1943
6.391.1.6 NoSuchAlgorithmException	1943
6.391.1.7 ~NoSuchAlgorithmException	1944
6.391.2 Member Function Documentation	1944
6.391.2.1 clone	1944
6.392decaf::lang::exceptions::NoSuchElementException Class Reference	1945
6.392.1 Constructor & Destructor Documentation	1945
6.392.1.1 NoSuchElementException	1945
6.392.1.2 NoSuchElementException	1945
6.392.1.3 NoSuchElementException	1946
6.392.1.4 NoSuchElementException	1946
6.392.1.5 NoSuchElementException	1946
6.392.1.6 NoSuchElementException	1946
6.392.1.7 ~NoSuchElementException	1947
6.392.2 Member Function Documentation	1947
6.392.2.1 clone	1947
6.393decaf::security::NoSuchProviderException Class Reference	1948
6.393.1 Constructor & Destructor Documentation	1948
6.393.1.1 NoSuchProviderException	1948
6.393.1.2 NoSuchProviderException	1948
6.393.1.3 NoSuchProviderException	1949
6.393.1.4 NoSuchProviderException	1949
6.393.1.5 NoSuchProviderException	1949
6.393.1.6 NoSuchProviderException	1949
6.393.1.7 ~NoSuchProviderException	1950
6.393.2 Member Function Documentation	1950

6.393.2.1 clone	1950
6.394decaf::lang::exceptions::NullPointerException Class Reference	1951
6.394.1 Constructor & Destructor Documentation	1951
6.394.1.1 NullPointerException	1951
6.394.1.2 NullPointerException	1951
6.394.1.3 NullPointerException	1952
6.394.1.4 NullPointerException	1952
6.394.1.5 NullPointerException	1952
6.394.1.6 NullPointerException	1952
6.394.1.7 ~NullPointerException	1953
6.394.2 Member Function Documentation	1953
6.394.2.1 clone	1953
6.395decaf::lang::Number Class Reference	1954
6.395.1 Detailed Description	1954
6.395.2 Constructor & Destructor Documentation	1954
6.395.2.1 ~Number	1954
6.395.3 Member Function Documentation	1954
6.395.3.1 byteValue	1954
6.395.3.2 doubleValue	1955
6.395.3.3 float Value	1955
6.395.3.4 int Value	1955
6.395.3.5 longValue	1955
6.395.3.6 shortValue	1956
6.396decaf::lang::exceptions::NumberFormatException Class Reference	1957
6.396.1 Constructor & Destructor Documentation	1957
6.396.1.1 NumberFormatException	1957
6.396.1.2 NumberFormatException	1957
6.396.1.3 NumberFormatException	1958
6.396.1.4 NumberFormatException	1958
6.396.1.5 NumberFormatException	1958
6.396.1.6 NumberFormatException	1958
6.396.1.7 ~NumberFormatException	1959
6.396.2 Member Function Documentation	1959
6.396.2.1 clone	1959
6.397cms::ObjectMessage Class Reference	1960
6.397.1 Detailed Description	1960

6.397.2 Constructor & Destructor Documentation	1960
6.397.2.1 ~ObjectMessage	1960
6.398decaf::security_provider::unix::openssl::OpenSSLX500Principal Class Reference . .	1961
6.398.1 Detailed Description	1961
6.398.2 Constructor & Destructor Documentation	1961
6.398.2.1 OpenSSLX500Principal	1961
6.398.2.2 ~OpenSSLX500Principal	1962
6.398.3 Member Function Documentation	1962
6.398.3.1 equals	1962
6.398.3.2 getEncoded	1962
6.398.3.3 getEncoded	1962
6.398.3.4 getName	1963
6.398.3.5 getX509Name	1963
6.398.3.6 toString	1963
6.399decaf::security_provider::unix::openssl::OpenSSLX509Certificate Class Reference .	1964
6.399.1 Constructor & Destructor Documentation	1965
6.399.1.1 ~OpenSSLX509Certificate	1965
6.399.2 Member Function Documentation	1965
6.399.2.1 checkValidity	1965
6.399.2.2 checkValidity	1965
6.399.2.3 equals	1965
6.399.2.4 getBasicConstraints	1966
6.399.2.5 getEncoded	1966
6.399.2.6 getIssuerUniqueID	1966
6.399.2.7 getIssuerX500Principal	1966
6.399.2.8 getKeyUsage	1966
6.399.2.9 getNotAfter	1966
6.399.2.10getNotBefore	1966
6.399.2.11getPublicKey	1967
6.399.2.12getPublicKey	1967
6.399.2.13getSigAlgName	1967
6.399.2.14getSigAlgOID	1967
6.399.2.15getSigAlgParams	1967
6.399.2.16getSignature	1967
6.399.2.17getSubjectUniqueID	1968
6.399.2.18getSubjectX500Principal	1968

6.399.2.1	getTBSCertificate	1968
6.399.2.2	getType	1968
6.399.2.21	getVersion	1968
6.399.2.22	toString	1968
6.399.2.23	verify	1969
6.399.2.24	verify	1969
6.400	activemq::wireformat::openwire::OpenWireFormat Class Reference	1970
6.400.1	Constructor & Destructor Documentation	1973
6.400.1.1	OpenWireFormat	1973
6.400.1.2	~OpenWireFormat	1973
6.400.2	Member Function Documentation	1973
6.400.2.1	addMarshaller	1973
6.400.2.2	createNegotiator	1973
6.400.2.3	destroyMarshalers	1973
6.400.2.4	doUnmarshal	1974
6.400.2.5	getCacheSize	1974
6.400.2.6	getMaxInactivityDuration	1974
6.400.2.7	getMaxInactivityDurationInitialDelay	1974
6.400.2.8	getPreferredWireFormatInfo	1975
6.400.2.9	getVersion	1975
6.400.2.10	hasNegotiator	1975
6.400.2.11	isCacheEnabled	1975
6.400.2.12	isSizePrefixDisabled	1975
6.400.2.13	isStackTraceEnabled	1976
6.400.2.14	isTcpNoDelayEnabled	1976
6.400.2.15	isTightEncodingEnabled	1976
6.400.2.16	looseMarshalNestedObject	1976
6.400.2.17	looseUnmarshalNestedObject	1976
6.400.2.18	marshal	1977
6.400.2.19	renegotiateWireFormat	1977
6.400.2.20	setCacheEnabled	1977
6.400.2.21	setCacheSize	1978
6.400.2.22	setMaxInactivityDuration	1978
6.400.2.23	setMaxInactivityDurationInitialDelay	1978
6.400.2.24	setPreferredWireFormatInfo	1978
6.400.2.25	setSizePrefixDisabled	1978

6.400.2.26	setStackTraceEnabled	1979
6.400.2.27	setTcpNoDelayEnabled	1979
6.400.2.28	setTightEncodingEnabled	1979
6.400.2.29	setVersion	1979
6.400.2.30	tightMarshalNestedObject1	1979
6.400.2.31	tightMarshalNestedObject2	1980
6.400.2.32	tightUnmarshalNestedObject	1980
6.400.2.33	unmarshal	1980
6.400.3	Field Documentation	1981
6.400.3.1	DEFAULT_VERSION	1981
6.400.3.2	NULL_TYPE	1981
6.401	activemq::wireformat::openwire::OpenWireFormatFactory Class Reference	1982
6.401.1	Constructor & Destructor Documentation	1982
6.401.1.1	OpenWireFormatFactory	1982
6.401.1.2	~OpenWireFormatFactory	1982
6.401.2	Member Function Documentation	1982
6.401.2.1	createWireFormat	1982
6.402	activemq::wireformat::openwire::OpenWireFormatNegotiator Class Reference	1984
6.402.1	Constructor & Destructor Documentation	1984
6.402.1.1	OpenWireFormatNegotiator	1984
6.402.1.2	~OpenWireFormatNegotiator	1985
6.402.2	Member Function Documentation	1985
6.402.2.1	close	1985
6.402.2.2	onCommand	1985
6.402.2.3	oneway	1985
6.402.2.4	onTransportException	1986
6.402.2.5	request	1986
6.402.2.6	request	1986
6.402.2.7	start	1987
6.403	activemq::wireformat::openwire::OpenWireResponseBuilder Class Reference	1988
6.403.1	Constructor & Destructor Documentation	1988
6.403.1.1	OpenWireResponseBuilder	1988
6.403.1.2	~OpenWireResponseBuilder	1988
6.403.2	Member Function Documentation	1988
6.403.2.1	buildIncomingCommands	1988
6.403.2.2	buildResponse	1989

6.404	activemq::wireformat::openwire::utils::OpenwireStringSupport Class Reference . . .	1990
6.404.1	Constructor & Destructor Documentation	1990
6.404.1.1	OpenwireStringSupport	1990
6.404.1.2	~OpenwireStringSupport	1990
6.404.2	Member Function Documentation	1990
6.404.2.1	readString	1990
6.404.2.2	writeString	1991
6.405	decaf::io::OutputStream Class Reference	1992
6.405.1	Detailed Description	1992
6.405.2	Constructor & Destructor Documentation	1992
6.405.2.1	~OutputStream	1992
6.405.3	Member Function Documentation	1992
6.405.3.1	flush	1992
6.405.3.2	write	1993
6.405.3.3	write	1993
6.405.3.4	write	1993
6.406	activemq::commands::PartialCommand Class Reference	1995
6.406.1	Constructor & Destructor Documentation	1996
6.406.1.1	PartialCommand	1996
6.406.1.2	PartialCommand	1996
6.406.1.3	~PartialCommand	1996
6.406.2	Member Function Documentation	1996
6.406.2.1	cloneDataStructure	1996
6.406.2.2	copyDataStructure	1996
6.406.2.3	equals	1996
6.406.2.4	getCommandId	1997
6.406.2.5	getData	1997
6.406.2.6	getData	1997
6.406.2.7	getDataStructureType	1997
6.406.2.8	operator=	1997
6.406.2.9	setCommandId	1997
6.406.2.10	setData	1997
6.406.2.11	toString	1997
6.406.3	Field Documentation	1998
6.406.3.1	commandId	1998
6.406.3.2	data	1998

6.406.3.3 ID_PARTIALCOMMAND	1998
6.407activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller	Class
Reference	1999
6.407.1 Detailed Description	1999
6.407.2 Constructor & Destructor Documentation	2000
6.407.2.1 PartialCommandMarshaller	2000
6.407.2.2 ~PartialCommandMarshaller	2000
6.407.3 Member Function Documentation	2000
6.407.3.1 createObject	2000
6.407.3.2 getDataStructureType	2000
6.407.3.3 looseMarshal	2000
6.407.3.4 looseUnmarshal	2001
6.407.3.5 tightMarshal1	2001
6.407.3.6 tightMarshal2	2002
6.407.3.7 tightUnmarshal	2002
6.408activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller	Class
Reference	2003
6.408.1 Detailed Description	2003
6.408.2 Constructor & Destructor Documentation	2004
6.408.2.1 PartialCommandMarshaller	2004
6.408.2.2 ~PartialCommandMarshaller	2004
6.408.3 Member Function Documentation	2004
6.408.3.1 createObject	2004
6.408.3.2 getDataStructureType	2004
6.408.3.3 looseMarshal	2004
6.408.3.4 looseUnmarshal	2005
6.408.3.5 tightMarshal1	2005
6.408.3.6 tightMarshal2	2006
6.408.3.7 tightUnmarshal	2006
6.409activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller	Class
Reference	2007
6.409.1 Detailed Description	2007
6.409.2 Constructor & Destructor Documentation	2008
6.409.2.1 PartialCommandMarshaller	2008
6.409.2.2 ~PartialCommandMarshaller	2008
6.409.3 Member Function Documentation	2008
6.409.3.1 createObject	2008

6.409.3.2	getDataStructureType	2008
6.409.3.3	looseMarshal	2008
6.409.3.4	looseUnmarshal	2009
6.409.3.5	tightMarshal1	2009
6.409.3.6	tightMarshal2	2010
6.409.3.7	tightUnmarshal	2010
6.410	decaf::lang::Pointer< T, REFCOUNTER > Class Template Reference	2011
6.410.1	Detailed Description	2012
6.410.2	Member Typedef Documentation	2013
6.410.2.1	CounterType	2013
6.410.2.2	PointerType	2013
6.410.2.3	ReferenceType	2013
6.410.3	Constructor & Destructor Documentation	2013
6.410.3.1	Pointer	2013
6.410.3.2	Pointer	2013
6.410.3.3	Pointer	2013
6.410.3.4	Pointer	2013
6.410.3.5	Pointer	2014
6.410.3.6	Pointer	2014
6.410.3.7	~Pointer	2014
6.410.4	Member Function Documentation	2014
6.410.4.1	dynamicCast	2014
6.410.4.2	get	2014
6.410.4.3	operator!	2015
6.410.4.4	operator!=	2015
6.410.4.5	operator*	2015
6.410.4.6	operator*	2015
6.410.4.7	operator->	2015
6.410.4.8	operator->	2015
6.410.4.9	operator=	2016
6.410.4.10	operator=	2016
6.410.4.11	operator==	2016
6.410.4.12	reset	2016
6.410.4.13	staticCast	2016
6.410.4.14	swap	2016
6.410.5	Friends And Related Function Documentation	2017

6.410.5.1 operator!=	2017
6.410.5.2 operator!=	2017
6.410.5.3 operator==	2017
6.410.5.4 operator==	2017
6.411decaf::lang::PointerComparator< T, R > Class Template Reference	2018
6.411.1 Detailed Description	2018
6.411.2 Member Function Documentation	2018
6.411.2.1 compare	2018
6.411.2.2 operator()	2018
6.412activemq::cmsutil::PooledSession Class Reference	2019
6.412.1 Detailed Description	2021
6.412.2 Constructor & Destructor Documentation	2021
6.412.2.1 PooledSession	2021
6.412.2.2 ~PooledSession	2021
6.412.3 Member Function Documentation	2021
6.412.3.1 close	2021
6.412.3.2 commit	2021
6.412.3.3 createBrowser	2022
6.412.3.4 createBrowser	2022
6.412.3.5 createBytesMessage	2023
6.412.3.6 createBytesMessage	2023
6.412.3.7 createCachedConsumer	2023
6.412.3.8 createCachedProducer	2024
6.412.3.9 createConsumer	2024
6.412.3.10createConsumer	2024
6.412.3.11createConsumer	2025
6.412.3.12reateDurableConsumer	2025
6.412.3.13reateMapMessage	2026
6.412.3.14reateMessage	2026
6.412.3.15reateProducer	2026
6.412.3.16reateQueue	2027
6.412.3.17reateStreamMessage	2027
6.412.3.18reateTemporaryQueue	2028
6.412.3.19reateTemporaryTopic	2028
6.412.3.20reateTextMessage	2028
6.412.3.21createTextMessage	2028

6.412.3.22	createTopic	2029
6.412.3.23	getAcknowledgeMode	2029
6.412.3.24	getSession	2029
6.412.3.25	getSession	2030
6.412.3.26	sTransacted	2030
6.412.3.27	recover	2030
6.412.3.28	rollback	2031
6.412.3.29	unsubscribe	2031
6.413	decaf::util::concurrent::PooledThread Class Reference	2032
6.413.1	Constructor & Destructor Documentation	2032
6.413.1.1	PooledThread	2032
6.413.1.2	~PooledThread	2033
6.413.2	Member Function Documentation	2033
6.413.2.1	getPooledThreadListener	2033
6.413.2.2	isBusy	2033
6.413.2.3	run	2033
6.413.2.4	setPooledThreadListener	2033
6.413.2.5	stop	2033
6.414	decaf::util::concurrent::PooledThreadListener Class Reference	2035
6.414.1	Detailed Description	2035
6.414.2	Constructor & Destructor Documentation	2035
6.414.2.1	~PooledThreadListener	2035
6.414.3	Member Function Documentation	2035
6.414.3.1	onTaskCompleted	2035
6.414.3.2	onTaskException	2036
6.414.3.3	onTaskStarted	2036
6.415	decaf::net::PortUnreachableException Class Reference	2037
6.415.1	Constructor & Destructor Documentation	2037
6.415.1.1	PortUnreachableException	2037
6.415.1.2	PortUnreachableException	2037
6.415.1.3	PortUnreachableException	2038
6.415.1.4	PortUnreachableException	2038
6.415.1.5	PortUnreachableException	2038
6.415.1.6	PortUnreachableException	2038
6.415.1.7	~PortUnreachableException	2039
6.415.2	Member Function Documentation	2039

6.415.2.1 clone	2039
6.416activemq::util::PrimitiveList Class Reference	2040
6.416.1 Detailed Description	2042
6.416.2 Constructor & Destructor Documentation	2042
6.416.2.1 PrimitiveList	2042
6.416.2.2 ~PrimitiveList	2042
6.416.2.3 PrimitiveList	2042
6.416.2.4 PrimitiveList	2043
6.416.3 Member Function Documentation	2043
6.416.3.1 getBool	2043
6.416.3.2 getByte	2043
6.416.3.3 getByteArray	2044
6.416.3.4 getChar	2044
6.416.3.5 getDouble	2044
6.416.3.6 getFloat	2045
6.416.3.7 getInt	2045
6.416.3.8 getLong	2045
6.416.3.9 getShort	2046
6.416.3.10getString	2046
6.416.3.11setBool	2047
6.416.3.12setByte	2047
6.416.3.13setByteArray	2047
6.416.3.14setChar	2048
6.416.3.15setDouble	2048
6.416.3.16setFloat	2048
6.416.3.17setInt	2049
6.416.3.18setLong	2049
6.416.3.19setShort	2049
6.416.3.20setString	2050
6.416.3.21toString	2050
6.417activemq::util::PrimitiveMap Class Reference	2051
6.417.1 Detailed Description	2053
6.417.2 Constructor & Destructor Documentation	2053
6.417.2.1 PrimitiveMap	2053
6.417.2.2 ~PrimitiveMap	2053
6.417.2.3 PrimitiveMap	2053

6.417.2.4 PrimitiveMap	2053
6.417.3 Member Function Documentation	2054
6.417.3.1 getBool	2054
6.417.3.2 getByte	2054
6.417.3.3 getByteArray	2054
6.417.3.4 getChar	2055
6.417.3.5 getDouble	2055
6.417.3.6 getFloat	2056
6.417.3.7 getInt	2056
6.417.3.8 getLong	2056
6.417.3.9 getShort	2057
6.417.3.10 getString	2057
6.417.3.11 setBool	2058
6.417.3.12 setByte	2058
6.417.3.13 setByteArray	2058
6.417.3.14 setChar	2058
6.417.3.15 setDouble	2058
6.417.3.16 setFloat	2059
6.417.3.17 setInt	2059
6.417.3.18 setLong	2059
6.417.3.19 setShort	2059
6.417.3.20 setString	2060
6.417.3.21 toString	2060
6.418 activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller Class Reference	2061
6.418.1 Detailed Description	2062
6.418.2 Constructor & Destructor Documentation	2062
6.418.2.1 PrimitiveTypesMarshaller	2062
6.418.2.2 ~PrimitiveTypesMarshaller	2062
6.418.3 Member Function Documentation	2062
6.418.3.1 marshal	2062
6.418.3.2 marshal	2063
6.418.3.3 marshalPrimitive	2063
6.418.3.4 marshalPrimitiveList	2063
6.418.3.5 marshalPrimitiveMap	2064
6.418.3.6 unmarshal	2064
6.418.3.7 unmarshal	2064

6.418.3.8 unmarshalPrimitive	2065
6.418.3.9 unmarshalPrimitiveList	2065
6.418.3.10 unmarshalPrimitiveMap	2065
6.419activemq::util::PrimitiveValueNode::PrimitiveValue Union Reference	2066
6.419.1 Detailed Description	2066
6.419.2 Field Documentation	2067
6.419.2.1 boolValue	2067
6.419.2.2 byteArrayValue	2067
6.419.2.3 byteValue	2067
6.419.2.4 charValue	2067
6.419.2.5 doubleValue	2067
6.419.2.6 floatValue	2067
6.419.2.7 intValue	2067
6.419.2.8 listValue	2067
6.419.2.9 longValue	2067
6.419.2.10 mapValue	2067
6.419.2.11 shortValue	2067
6.419.2.12 stringValue	2067
6.420activemq::util::PrimitiveValueConverter Class Reference	2068
6.420.1 Detailed Description	2068
6.420.2 Constructor & Destructor Documentation	2068
6.420.2.1 PrimitiveValueConverter	2068
6.420.2.2 ~PrimitiveValueConverter	2068
6.420.3 Member Function Documentation	2068
6.420.3.1 convert	2068
6.421activemq::util::PrimitiveValueNode Class Reference	2070
6.421.1 Detailed Description	2073
6.421.2 Member Enumeration Documentation	2073
6.421.2.1 PrimitiveType	2073
6.421.3 Constructor & Destructor Documentation	2074
6.421.3.1 PrimitiveValueNode	2074
6.421.3.2 PrimitiveValueNode	2074
6.421.3.3 PrimitiveValueNode	2074
6.421.3.4 PrimitiveValueNode	2074
6.421.3.5 PrimitiveValueNode	2075
6.421.3.6 PrimitiveValueNode	2075

6.421.3.7 PrimitiveValueNode	2075
6.421.3.8 PrimitiveValueNode	2075
6.421.3.9 PrimitiveValueNode	2075
6.421.3.10 PrimitiveValueNode	2075
6.421.3.11 PrimitiveValueNode	2076
6.421.3.12 PrimitiveValueNode	2076
6.421.3.13 PrimitiveValueNode	2076
6.421.3.14 PrimitiveValueNode	2076
6.421.3.15 PrimitiveValueNode	2076
6.421.3.16 ~PrimitiveValueNode	2076
6.421.4 Member Function Documentation	2076
6.421.4.1 clear	2076
6.421.4.2 getBool	2077
6.421.4.3 getByte	2077
6.421.4.4 getByteArray	2077
6.421.4.5 getChar	2077
6.421.4.6 getDouble	2078
6.421.4.7 getFloat	2078
6.421.4.8 getInt	2078
6.421.4.9 getList	2078
6.421.4.10 getLong	2079
6.421.4.11 getMap	2079
6.421.4.12 getShort	2079
6.421.4.13 getString	2079
6.421.4.14 getType	2080
6.421.4.15 getValue	2080
6.421.4.16 operator=	2080
6.421.4.17 operator==	2080
6.421.4.18 setBool	2080
6.421.4.19 setByte	2080
6.421.4.20 setByteArray	2081
6.421.4.21 setChar	2081
6.421.4.22 setDouble	2081
6.421.4.23 setFloat	2081
6.421.4.24 setInt	2081
6.421.4.25 setList	2081

6.421.4.26	setLong	2082
6.421.4.27	setMap	2082
6.421.4.28	setShort	2082
6.421.4.29	setString	2082
6.421.4.30	setValue	2082
6.421.4.31	toString	2083
6.422	decaf::security::Principal Class Reference	2084
6.422.1	Detailed Description	2084
6.422.2	Constructor & Destructor Documentation	2084
6.422.2.1	~Principal	2084
6.422.3	Member Function Documentation	2084
6.422.3.1	equals	2084
6.422.3.2	getName	2084
6.423	activemq::commands::ProducerAck Class Reference	2086
6.423.1	Constructor & Destructor Documentation	2087
6.423.1.1	ProducerAck	2087
6.423.1.2	ProducerAck	2087
6.423.1.3	~ProducerAck	2087
6.423.2	Member Function Documentation	2087
6.423.2.1	cloneDataStructure	2087
6.423.2.2	copyDataStructure	2087
6.423.2.3	equals	2087
6.423.2.4	getDataStructureType	2088
6.423.2.5	getProducerId	2088
6.423.2.6	getProducerId	2088
6.423.2.7	getSize	2088
6.423.2.8	isProducerAck	2088
6.423.2.9	operator=	2088
6.423.2.10	setProducerId	2088
6.423.2.11	setSize	2088
6.423.2.12	toString	2088
6.423.2.13	visit	2089
6.423.3	Field Documentation	2089
6.423.3.1	ID_PRODUCERACK	2089
6.423.3.2	producerId	2089
6.423.3.3	size	2089

6.424	activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller Class Reference	2090
6.424.1	Detailed Description	2090
6.424.2	Constructor & Destructor Documentation	2091
6.424.2.1	ProducerAckMarshaller	2091
6.424.2.2	~ProducerAckMarshaller	2091
6.424.3	Member Function Documentation	2091
6.424.3.1	createObject	2091
6.424.3.2	getDataStructureType	2091
6.424.3.3	looseMarshal	2091
6.424.3.4	looseUnmarshal	2092
6.424.3.5	tightMarshal1	2092
6.424.3.6	tightMarshal2	2093
6.424.3.7	tightUnmarshal	2093
6.425	activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller Class Reference	2094
6.425.1	Detailed Description	2094
6.425.2	Constructor & Destructor Documentation	2095
6.425.2.1	ProducerAckMarshaller	2095
6.425.2.2	~ProducerAckMarshaller	2095
6.425.3	Member Function Documentation	2095
6.425.3.1	createObject	2095
6.425.3.2	getDataStructureType	2095
6.425.3.3	looseMarshal	2095
6.425.3.4	looseUnmarshal	2096
6.425.3.5	tightMarshal1	2096
6.425.3.6	tightMarshal2	2097
6.425.3.7	tightUnmarshal	2097
6.426	activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller Class Reference	2098
6.426.1	Detailed Description	2098
6.426.2	Constructor & Destructor Documentation	2099
6.426.2.1	ProducerAckMarshaller	2099
6.426.2.2	~ProducerAckMarshaller	2099
6.426.3	Member Function Documentation	2099
6.426.3.1	createObject	2099
6.426.3.2	getDataStructureType	2099
6.426.3.3	looseMarshal	2099
6.426.3.4	looseUnmarshal	2100

6.426.3.5	tightMarshal	2100
6.426.3.6	tightMarshal2	2101
6.426.3.7	tightUnmarshal	2101
6.427	activemq::cmsutil::ProducerCallback Class Reference	2102
6.427.1	Detailed Description	2102
6.427.2	Constructor & Destructor Documentation	2102
6.427.2.1	~ProducerCallback	2102
6.427.3	Member Function Documentation	2102
6.427.3.1	doInCms	2102
6.428	activemq::cmsutil::CmsTemplate::ProducerExecutor Class Reference	2103
6.428.1	Constructor & Destructor Documentation	2103
6.428.1.1	ProducerExecutor	2103
6.428.1.2	~ProducerExecutor	2103
6.428.2	Member Function Documentation	2103
6.428.2.1	doInCms	2103
6.428.2.2	getDestination	2104
6.428.3	Field Documentation	2104
6.428.3.1	action	2104
6.428.3.2	destination	2104
6.428.3.3	parent	2104
6.429	activemq::commands::ProducerId Class Reference	2105
6.429.1	Member Typedef Documentation	2106
6.429.1.1	COMPARATOR	2106
6.429.2	Constructor & Destructor Documentation	2106
6.429.2.1	ProducerId	2106
6.429.2.2	ProducerId	2106
6.429.2.3	ProducerId	2106
6.429.2.4	~ProducerId	2106
6.429.3	Member Function Documentation	2106
6.429.3.1	cloneDataStructure	2106
6.429.3.2	compareTo	2106
6.429.3.3	copyDataStructure	2106
6.429.3.4	equals	2107
6.429.3.5	equals	2107
6.429.3.6	getConnectionId	2107
6.429.3.7	getConnectionId	2107

6.429.3.8	getDataStructureType	2107
6.429.3.9	getParentId	2108
6.429.3.10	getSessionId	2108
6.429.3.11	getValue	2108
6.429.3.12	operator<	2108
6.429.3.13	operator=	2108
6.429.3.14	operator==	2108
6.429.3.15	setConnectionId	2108
6.429.3.16	setSessionId	2108
6.429.3.17	setValue	2108
6.429.3.18	toString	2108
6.429.4	Field Documentation	2108
6.429.4.1	connectionId	2108
6.429.4.2	ID_PRODUCERID	2108
6.429.4.3	sessionId	2109
6.429.4.4	value	2109
6.430	activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller Class Reference	2110
6.430.1	Detailed Description	2110
6.430.2	Constructor & Destructor Documentation	2111
6.430.2.1	ProducerIdMarshaller	2111
6.430.2.2	~ProducerIdMarshaller	2111
6.430.3	Member Function Documentation	2111
6.430.3.1	createObject	2111
6.430.3.2	getDataStructureType	2111
6.430.3.3	looseMarshal	2111
6.430.3.4	looseUnmarshal	2112
6.430.3.5	tightMarshal1	2112
6.430.3.6	tightMarshal2	2113
6.430.3.7	tightUnmarshal	2113
6.431	activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller Class Reference	2114
6.431.1	Detailed Description	2114
6.431.2	Constructor & Destructor Documentation	2115
6.431.2.1	ProducerIdMarshaller	2115
6.431.2.2	~ProducerIdMarshaller	2115
6.431.3	Member Function Documentation	2115
6.431.3.1	createObject	2115

6.431.3.2	getDataStructureType	2115
6.431.3.3	looseMarshal	2115
6.431.3.4	looseUnmarshal	2116
6.431.3.5	tightMarshal1	2116
6.431.3.6	tightMarshal2	2117
6.431.3.7	tightUnmarshal	2117
6.432	activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller Class Reference	2118
6.432.1	Detailed Description	2118
6.432.2	Constructor & Destructor Documentation	2119
6.432.2.1	ProducerIdMarshaller	2119
6.432.2.2	~ProducerIdMarshaller	2119
6.432.3	Member Function Documentation	2119
6.432.3.1	createObject	2119
6.432.3.2	getDataStructureType	2119
6.432.3.3	looseMarshal	2119
6.432.3.4	looseUnmarshal	2120
6.432.3.5	tightMarshal1	2120
6.432.3.6	tightMarshal2	2121
6.432.3.7	tightUnmarshal	2121
6.433	activemq::commands::ProducerInfo Class Reference	2122
6.433.1	Constructor & Destructor Documentation	2123
6.433.1.1	ProducerInfo	2123
6.433.1.2	ProducerInfo	2123
6.433.1.3	~ProducerInfo	2123
6.433.2	Member Function Documentation	2123
6.433.2.1	cloneDataStructure	2123
6.433.2.2	copyDataStructure	2123
6.433.2.3	equals	2124
6.433.2.4	getBrokerPath	2124
6.433.2.5	getBrokerPath	2124
6.433.2.6	getDataStructureType	2124
6.433.2.7	getDestination	2125
6.433.2.8	getDestination	2125
6.433.2.9	getProducerId	2125
6.433.2.10	getProducerId	2125
6.433.2.11	getWindowSize	2125

6.433.2.12	DispatchAsync	2125
6.433.2.13	ProducerInfo	2125
6.433.2.14	operator=	2125
6.433.2.15	setBrokerPath	2125
6.433.2.16	setDestination	2125
6.433.2.17	setDispatchAsync	2125
6.433.2.18	setProducerId	2125
6.433.2.19	setWindowSize	2125
6.433.2.20	toString	2125
6.433.2.21	visit	2126
6.433.3	Field Documentation	2126
6.433.3.1	brokerPath	2126
6.433.3.2	destination	2126
6.433.3.3	dispatchAsync	2126
6.433.3.4	ID_PRODUCERINFO	2126
6.433.3.5	producerId	2126
6.433.3.6	windowSize	2126
6.434	activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller Class Reference	2127
6.434.1	Detailed Description	2127
6.434.2	Constructor & Destructor Documentation	2128
6.434.2.1	ProducerInfoMarshaller	2128
6.434.2.2	~ProducerInfoMarshaller	2128
6.434.3	Member Function Documentation	2128
6.434.3.1	createObject	2128
6.434.3.2	getDataStructureType	2128
6.434.3.3	looseMarshal	2128
6.434.3.4	looseUnmarshal	2129
6.434.3.5	tightMarshal1	2129
6.434.3.6	tightMarshal2	2130
6.434.3.7	tightUnmarshal	2130
6.435	activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller Class Reference	2131
6.435.1	Detailed Description	2131
6.435.2	Constructor & Destructor Documentation	2132
6.435.2.1	ProducerInfoMarshaller	2132
6.435.2.2	~ProducerInfoMarshaller	2132

6.435.3 Member Function Documentation	2132
6.435.3.1 createObject	2132
6.435.3.2 getDataStructureType	2132
6.435.3.3 looseMarshal	2132
6.435.3.4 looseUnmarshal	2133
6.435.3.5 tightMarshal1	2133
6.435.3.6 tightMarshal2	2134
6.435.3.7 tightUnmarshal	2134
6.436activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller Class Reference	2135
6.436.1 Detailed Description	2135
6.436.2 Constructor & Destructor Documentation	2136
6.436.2.1 ProducerInfoMarshaller	2136
6.436.2.2 ~ProducerInfoMarshaller	2136
6.436.3 Member Function Documentation	2136
6.436.3.1 createObject	2136
6.436.3.2 getDataStructureType	2136
6.436.3.3 looseMarshal	2136
6.436.3.4 looseUnmarshal	2137
6.436.3.5 tightMarshal1	2137
6.436.3.6 tightMarshal2	2138
6.436.3.7 tightUnmarshal	2138
6.437activemq::state::ProducerState Class Reference	2139
6.437.1 Constructor & Destructor Documentation	2139
6.437.1.1 ProducerState	2139
6.437.1.2 ~ProducerState	2139
6.437.2 Member Function Documentation	2139
6.437.2.1 getInfo	2139
6.437.2.2 toString	2139
6.438decaf::util::Properties Class Reference	2140
6.438.1 Detailed Description	2141
6.438.2 Constructor & Destructor Documentation	2142
6.438.2.1 Properties	2142
6.438.2.2 Properties	2142
6.438.2.3 ~Properties	2142
6.438.3 Member Function Documentation	2142
6.438.3.1 clear	2142

6.438.3.2 clone	2142
6.438.3.3 copy	2142
6.438.3.4 equals	2142
6.438.3.5 getProperty	2142
6.438.3.6 getProperty	2143
6.438.3.7 hasProperty	2143
6.438.3.8 isEmpty	2143
6.438.3.9 load	2143
6.438.3.10load	2145
6.438.3.11operator=	2146
6.438.3.12remove	2146
6.438.3.13setProperty	2146
6.438.3.14size	2146
6.438.3.15store	2146
6.438.3.16store	2147
6.438.3.17oArray	2148
6.438.3.18oString	2148
6.438.4 Field Documentation	2148
6.438.4.1 defaults	2148
6.439decaf::util::logging::PropertiesChangeListener Class Reference	2149
6.439.1 Detailed Description	2149
6.439.2 Constructor & Destructor Documentation	2149
6.439.2.1 ~PropertiesChangeListener	2149
6.439.3 Member Function Documentation	2149
6.439.3.1 onPropertyChanged	2149
6.440decaf::net::ProtocolException Class Reference	2150
6.440.1 Constructor & Destructor Documentation	2150
6.440.1.1 ProtocolException	2150
6.440.1.2 ProtocolException	2150
6.440.1.3 ProtocolException	2151
6.440.1.4 ProtocolException	2151
6.440.1.5 ProtocolException	2151
6.440.1.6 ProtocolException	2151
6.440.1.7 ~ProtocolException	2152
6.440.2 Member Function Documentation	2152
6.440.2.1 clone	2152

6.441	decaf::security::PublicKey Class Reference	2153
6.441.1	Detailed Description	2153
6.441.2	Constructor & Destructor Documentation	2153
6.441.2.1	~PublicKey	2153
6.442	decaf::util::Queue< E > Class Template Reference	2154
6.442.1	Detailed Description	2154
6.442.2	Constructor & Destructor Documentation	2155
6.442.2.1	~Queue	2155
6.442.3	Member Function Documentation	2155
6.442.3.1	element	2155
6.442.3.2	getEmptyMarker	2155
6.442.3.3	offer	2155
6.442.3.4	peek	2156
6.442.3.5	poll	2156
6.442.3.6	remove	2156
6.443	cms::Queue Class Reference	2157
6.443.1	Detailed Description	2157
6.443.2	Constructor & Destructor Documentation	2157
6.443.2.1	~Queue	2157
6.443.3	Member Function Documentation	2157
6.443.3.1	getQueueName	2157
6.444	cms::QueueBrowser Class Reference	2158
6.444.1	Detailed Description	2158
6.444.2	Constructor & Destructor Documentation	2158
6.444.2.1	~QueueBrowser	2158
6.444.3	Member Function Documentation	2158
6.444.3.1	getEnumeration	2158
6.444.3.2	getMessageSelector	2159
6.444.3.3	getQueue	2159
6.445	decaf::util::Random Class Reference	2160
6.445.1	Detailed Description	2161
6.445.2	Constructor & Destructor Documentation	2161
6.445.2.1	Random	2161
6.445.2.2	Random	2161
6.445.3	Member Function Documentation	2161
6.445.3.1	next	2161

6.445.3.2 nextBoolean	2162
6.445.3.3 nextBytes	2162
6.445.3.4 nextDouble	2162
6.445.3.5 nextFloat	2162
6.445.3.6 nextGaussian	2163
6.445.3.7 nextInt	2163
6.445.3.8 nextInt	2163
6.445.3.9 nextLong	2163
6.445.3.10 setSeed	2164
6.446 decaf::io::Reader Class Reference	2165
6.446.1 Constructor & Destructor Documentation	2165
6.446.1.1 ~Reader	2165
6.446.2 Member Function Documentation	2165
6.446.2.1 getInputStream	2165
6.446.2.2 read	2165
6.446.2.3 readByte	2166
6.446.2.4 setInputStream	2166
6.447 decaf::nio::ReadOnlyBufferException Class Reference	2167
6.447.1 Constructor & Destructor Documentation	2167
6.447.1.1 ReadOnlyBufferException	2167
6.447.1.2 ReadOnlyBufferException	2167
6.447.1.3 ReadOnlyBufferException	2168
6.447.1.4 ReadOnlyBufferException	2168
6.447.1.5 ReadOnlyBufferException	2168
6.447.1.6 ReadOnlyBufferException	2168
6.447.1.7 ~ReadOnlyBufferException	2169
6.447.2 Member Function Documentation	2169
6.447.2.1 clone	2169
6.448 decaf::util::concurrent::locks::ReadWriteLock Class Reference	2170
6.448.1 Detailed Description	2170
6.448.2 Constructor & Destructor Documentation	2171
6.448.2.1 ~ReadWriteLock	2171
6.448.3 Member Function Documentation	2171
6.448.3.1 readLock	2171
6.448.3.2 writeLock	2171
6.449 activemq::cmsutil::CmsTemplate::ReceiveExecutor Class Reference	2172

6.449.1 Constructor & Destructor Documentation	2172
6.449.1.1 ReceiveExecutor	2172
6.449.1.2 ~ReceiveExecutor	2172
6.449.2 Member Function Documentation	2172
6.449.2.1 doInCms	2172
6.449.2.2 getDestination	2173
6.449.2.3 getMessage	2173
6.449.3 Field Documentation	2173
6.449.3.1 destination	2173
6.449.3.2 message	2173
6.449.3.3 noLocal	2173
6.449.3.4 parent	2173
6.449.3.5 selector	2173
6.450decaf::util::concurrent::RejectedExecutionException Class Reference	2174
6.450.1 Constructor & Destructor Documentation	2174
6.450.1.1 RejectedExecutionException	2174
6.450.1.2 RejectedExecutionException	2174
6.450.1.3 RejectedExecutionException	2175
6.450.1.4 RejectedExecutionException	2175
6.450.1.5 RejectedExecutionException	2175
6.450.1.6 RejectedExecutionException	2175
6.450.1.7 ~RejectedExecutionException	2176
6.450.2 Member Function Documentation	2176
6.450.2.1 clone	2176
6.451activemq::commands::RemoveInfo Class Reference	2177
6.451.1 Constructor & Destructor Documentation	2178
6.451.1.1 RemoveInfo	2178
6.451.1.2 RemoveInfo	2178
6.451.1.3 ~RemoveInfo	2178
6.451.2 Member Function Documentation	2178
6.451.2.1 cloneDataStructure	2178
6.451.2.2 copyDataStructure	2178
6.451.2.3 equals	2178
6.451.2.4 getDataStructureType	2178
6.451.2.5 getObjectId	2179
6.451.2.6 getObjectId	2179

6.451.2.7 isRemoveInfo	2179
6.451.2.8 operator=	2179
6.451.2.9 setObjectId	2179
6.451.2.10 toString	2179
6.451.2.11 visit	2179
6.451.3 Field Documentation	2180
6.451.3.1 ID_REMOVEINFO	2180
6.451.3.2 objectId	2180
6.452activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller Class Reference	2181
6.452.1 Detailed Description	2181
6.452.2 Constructor & Destructor Documentation	2182
6.452.2.1 RemoveInfoMarshaller	2182
6.452.2.2 ~RemoveInfoMarshaller	2182
6.452.3 Member Function Documentation	2182
6.452.3.1 createObject	2182
6.452.3.2 getDataStructureType	2182
6.452.3.3 looseMarshal	2182
6.452.3.4 looseUnmarshal	2183
6.452.3.5 tightMarshal1	2183
6.452.3.6 tightMarshal2	2184
6.452.3.7 tightUnmarshal	2184
6.453activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller Class Reference	2185
6.453.1 Detailed Description	2185
6.453.2 Constructor & Destructor Documentation	2186
6.453.2.1 RemoveInfoMarshaller	2186
6.453.2.2 ~RemoveInfoMarshaller	2186
6.453.3 Member Function Documentation	2186
6.453.3.1 createObject	2186
6.453.3.2 getDataStructureType	2186
6.453.3.3 looseMarshal	2186
6.453.3.4 looseUnmarshal	2187
6.453.3.5 tightMarshal1	2187
6.453.3.6 tightMarshal2	2188
6.453.3.7 tightUnmarshal	2188
6.454activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller Class Reference	2189
6.454.1 Detailed Description	2189

6.454.2 Constructor & Destructor Documentation	2190
6.454.2.1 RemoveInfoMarshaller	2190
6.454.2.2 ~RemoveInfoMarshaller	2190
6.454.3 Member Function Documentation	2190
6.454.3.1 createObject	2190
6.454.3.2 getDataStructureType	2190
6.454.3.3 looseMarshal	2190
6.454.3.4 looseUnmarshal	2191
6.454.3.5 tightMarshal1	2191
6.454.3.6 tightMarshal2	2192
6.454.3.7 tightUnmarshal	2192
6.455activemq::commands::RemoveSubscriptionInfo Class Reference	2193
6.455.1 Constructor & Destructor Documentation	2194
6.455.1.1 RemoveSubscriptionInfo	2194
6.455.1.2 RemoveSubscriptionInfo	2194
6.455.1.3 ~RemoveSubscriptionInfo	2194
6.455.2 Member Function Documentation	2194
6.455.2.1 cloneDataStructure	2194
6.455.2.2 copyDataStructure	2194
6.455.2.3 equals	2195
6.455.2.4 getClientId	2195
6.455.2.5 getClientId	2195
6.455.2.6 getConnectionId	2195
6.455.2.7 getConnectionId	2195
6.455.2.8 getDataStructureType	2195
6.455.2.9 getSubscriptionName	2196
6.455.2.10getSubscriptionName	2196
6.455.2.11isRemoveSubscriptionInfo	2196
6.455.2.12operator=	2196
6.455.2.13setClientId	2196
6.455.2.14setConnectionId	2196
6.455.2.15setSubscriptionName	2196
6.455.2.16toString	2196
6.455.2.17visit	2196
6.455.3 Field Documentation	2197
6.455.3.1 clientId	2197

6.455.3.2	connectionId	2197
6.455.3.3	ID_REMOVESUBSCRIPTIONINFO	2197
6.455.3.4	subscriptionName	2197
6.456	activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller	
	Class Reference	2198
6.456.1	Detailed Description	2198
6.456.2	Constructor & Destructor Documentation	2199
6.456.2.1	RemoveSubscriptionInfoMarshaller	2199
6.456.2.2	~RemoveSubscriptionInfoMarshaller	2199
6.456.3	Member Function Documentation	2199
6.456.3.1	createObject	2199
6.456.3.2	getDataStructureType	2199
6.456.3.3	looseMarshal	2199
6.456.3.4	looseUnmarshal	2200
6.456.3.5	tightMarshal1	2200
6.456.3.6	tightMarshal2	2201
6.456.3.7	tightUnmarshal	2201
6.457	activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller	
	Class Reference	2202
6.457.1	Detailed Description	2202
6.457.2	Constructor & Destructor Documentation	2203
6.457.2.1	RemoveSubscriptionInfoMarshaller	2203
6.457.2.2	~RemoveSubscriptionInfoMarshaller	2203
6.457.3	Member Function Documentation	2203
6.457.3.1	createObject	2203
6.457.3.2	getDataStructureType	2203
6.457.3.3	looseMarshal	2203
6.457.3.4	looseUnmarshal	2204
6.457.3.5	tightMarshal1	2204
6.457.3.6	tightMarshal2	2205
6.457.3.7	tightUnmarshal	2205
6.458	activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller	
	Class Reference	2206
6.458.1	Detailed Description	2206
6.458.2	Constructor & Destructor Documentation	2207
6.458.2.1	RemoveSubscriptionInfoMarshaller	2207
6.458.2.2	~RemoveSubscriptionInfoMarshaller	2207

6.458.3 Member Function Documentation	2207
6.458.3.1 createObject	2207
6.458.3.2 getDataStructureType	2207
6.458.3.3 looseMarshal	2207
6.458.3.4 looseUnmarshal	2208
6.458.3.5 tightMarshal1	2208
6.458.3.6 tightMarshal2	2209
6.458.3.7 tightUnmarshal	2209
6.459activemq::commands::ReplayCommand Class Reference	2210
6.459.1 Constructor & Destructor Documentation	2211
6.459.1.1 ReplayCommand	2211
6.459.1.2 ReplayCommand	2211
6.459.1.3 ~ReplayCommand	2211
6.459.2 Member Function Documentation	2211
6.459.2.1 cloneDataStructure	2211
6.459.2.2 copyDataStructure	2211
6.459.2.3 equals	2211
6.459.2.4 getDataStructureType	2212
6.459.2.5 getFirstNakNumber	2212
6.459.2.6 getLastNakNumber	2212
6.459.2.7 operator=	2212
6.459.2.8 setFirstNakNumber	2212
6.459.2.9 setLastNakNumber	2212
6.459.2.10toString	2212
6.459.2.11visit	2212
6.459.3 Field Documentation	2213
6.459.3.1 firstNakNumber	2213
6.459.3.2 ID_REPLAYCOMMAND	2213
6.459.3.3 lastNakNumber	2213
6.460activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller Class Reference	2214
6.460.1 Detailed Description	2214
6.460.2 Constructor & Destructor Documentation	2215
6.460.2.1 ReplayCommandMarshaller	2215
6.460.2.2 ~ReplayCommandMarshaller	2215
6.460.3 Member Function Documentation	2215
6.460.3.1 createObject	2215

6.460.3.2	getDataStructureType	2215
6.460.3.3	looseMarshal	2215
6.460.3.4	looseUnmarshal	2216
6.460.3.5	tightMarshal1	2216
6.460.3.6	tightMarshal2	2217
6.460.3.7	tightUnmarshal	2217
6.461	activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller Class	
	Reference	2218
6.461.1	Detailed Description	2218
6.461.2	Constructor & Destructor Documentation	2219
6.461.2.1	ReplayCommandMarshaller	2219
6.461.2.2	~ReplayCommandMarshaller	2219
6.461.3	Member Function Documentation	2219
6.461.3.1	createObject	2219
6.461.3.2	getDataStructureType	2219
6.461.3.3	looseMarshal	2219
6.461.3.4	looseUnmarshal	2220
6.461.3.5	tightMarshal1	2220
6.461.3.6	tightMarshal2	2221
6.461.3.7	tightUnmarshal	2221
6.462	activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller Class	
	Reference	2222
6.462.1	Detailed Description	2222
6.462.2	Constructor & Destructor Documentation	2223
6.462.2.1	ReplayCommandMarshaller	2223
6.462.2.2	~ReplayCommandMarshaller	2223
6.462.3	Member Function Documentation	2223
6.462.3.1	createObject	2223
6.462.3.2	getDataStructureType	2223
6.462.3.3	looseMarshal	2223
6.462.3.4	looseUnmarshal	2224
6.462.3.5	tightMarshal1	2224
6.462.3.6	tightMarshal2	2225
6.462.3.7	tightUnmarshal	2225
6.463	activemq::cmsutil::CmsTemplate::ResolveProducerExecutor Class Reference	2226
6.463.1	Constructor & Destructor Documentation	2226
6.463.1.1	ResolveProducerExecutor	2226

6.463.1.2 <code>~ResolveProducerExecutor</code>	2226
6.463.2 Member Function Documentation	2226
6.463.2.1 <code>getDestination</code>	2226
6.464 <code>activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor</code> Class Reference	2227
6.464.1 Constructor & Destructor Documentation	2227
6.464.1.1 <code>ResolveReceiveExecutor</code>	2227
6.464.1.2 <code>~ResolveReceiveExecutor</code>	2227
6.464.2 Member Function Documentation	2227
6.464.2.1 <code>getDestination</code>	2227
6.465 <code>activemq::cmsutil::ResourceLifecycleManager</code> Class Reference	2228
6.465.1 Detailed Description	2228
6.465.2 Constructor & Destructor Documentation	2228
6.465.2.1 <code>ResourceLifecycleManager</code>	2228
6.465.2.2 <code>~ResourceLifecycleManager</code>	2228
6.465.3 Member Function Documentation	2229
6.465.3.1 <code>addConnection</code>	2229
6.465.3.2 <code>addDestination</code>	2229
6.465.3.3 <code>addMessageConsumer</code>	2229
6.465.3.4 <code>addMessageProducer</code>	2229
6.465.3.5 <code>addSession</code>	2229
6.465.3.6 <code>destroy</code>	2230
6.465.3.7 <code>releaseAll</code>	2230
6.466 <code>activemq::commands::Response</code> Class Reference	2231
6.466.1 Constructor & Destructor Documentation	2232
6.466.1.1 <code>Response</code>	2232
6.466.1.2 <code>Response</code>	2232
6.466.1.3 <code>~Response</code>	2232
6.466.2 Member Function Documentation	2232
6.466.2.1 <code>cloneDataStructure</code>	2232
6.466.2.2 <code>copyDataStructure</code>	2232
6.466.2.3 <code>equals</code>	2232
6.466.2.4 <code>getCorrelationId</code>	2233
6.466.2.5 <code>getDataStructureType</code>	2233
6.466.2.6 <code>isResponse</code>	2233
6.466.2.7 <code>operator=</code>	2233
6.466.2.8 <code>setCorrelationId</code>	2233

6.466.2.9 toString	2233
6.466.2.10 visit	2234
6.466.3 Field Documentation	2234
6.466.3.1 correlationId	2234
6.466.3.2 ID_RESPONSE	2234
6.467activemq::transport::mock::ResponseBuilder Class Reference	2235
6.467.1 Detailed Description	2235
6.467.2 Constructor & Destructor Documentation	2235
6.467.2.1 ~ResponseBuilder	2235
6.467.3 Member Function Documentation	2235
6.467.3.1 buildIncomingCommands	2235
6.467.3.2 buildResponse	2236
6.468activemq::transport::correlator::ResponseCorrelator Class Reference	2237
6.468.1 Detailed Description	2237
6.468.2 Constructor & Destructor Documentation	2238
6.468.2.1 ResponseCorrelator	2238
6.468.2.2 ~ResponseCorrelator	2238
6.468.3 Member Function Documentation	2238
6.468.3.1 close	2238
6.468.3.2 onCommand	2238
6.468.3.3 oneway	2238
6.468.3.4 onTransportException	2239
6.468.3.5 request	2239
6.468.3.6 request	2239
6.468.3.7 start	2240
6.469activemq::wireformat::openwire::marshal::v2::ResponseMarshaller Class Reference	2241
6.469.1 Detailed Description	2241
6.469.2 Constructor & Destructor Documentation	2242
6.469.2.1 ResponseMarshaller	2242
6.469.2.2 ~ResponseMarshaller	2242
6.469.3 Member Function Documentation	2242
6.469.3.1 createObject	2242
6.469.3.2 getDataStructureType	2242
6.469.3.3 looseMarshal	2242
6.469.3.4 looseUnmarshal	2243
6.469.3.5 tightMarshal1	2243

6.469.3.6 tightMarshal2	2244
6.469.3.7 tightUnmarshal	2245
6.470activemq::wireformat::openwire::marshal::v3::ResponseMarshaller Class Reference	2246
6.470.1 Detailed Description	2246
6.470.2 Constructor & Destructor Documentation	2247
6.470.2.1 ResponseMarshaller	2247
6.470.2.2 ~ResponseMarshaller	2247
6.470.3 Member Function Documentation	2247
6.470.3.1 createObject	2247
6.470.3.2 getDataStructureType	2247
6.470.3.3 looseMarshal	2247
6.470.3.4 looseUnmarshal	2248
6.470.3.5 tightMarshal1	2248
6.470.3.6 tightMarshal2	2249
6.470.3.7 tightUnmarshal	2250
6.471activemq::wireformat::openwire::marshal::v1::ResponseMarshaller Class Reference	2251
6.471.1 Detailed Description	2251
6.471.2 Constructor & Destructor Documentation	2252
6.471.2.1 ResponseMarshaller	2252
6.471.2.2 ~ResponseMarshaller	2252
6.471.3 Member Function Documentation	2252
6.471.3.1 createObject	2252
6.471.3.2 getDataStructureType	2252
6.471.3.3 looseMarshal	2252
6.471.3.4 looseUnmarshal	2253
6.471.3.5 tightMarshal1	2253
6.471.3.6 tightMarshal2	2254
6.471.3.7 tightUnmarshal	2255
6.472decaf::lang::Runnable Class Reference	2256
6.472.1 Detailed Description	2256
6.472.2 Constructor & Destructor Documentation	2256
6.472.2.1 ~Runnable	2256
6.472.3 Member Function Documentation	2256
6.472.3.1 run	2256
6.473decaf::lang::Runtime Class Reference	2257
6.473.1 Constructor & Destructor Documentation	2257

6.473.1.1 ~Runtime	2257
6.473.2 Member Function Documentation	2257
6.473.2.1 getRuntime	2257
6.473.2.2 initializeRuntime	2257
6.473.2.3 initializeRuntime	2258
6.473.2.4 shutdownRuntime	2258
6.474decaf::lang::exceptions::RuntimeException Class Reference	2259
6.474.1 Constructor & Destructor Documentation	2259
6.474.1.1 RuntimeException	2259
6.474.1.2 RuntimeException	2259
6.474.1.3 RuntimeException	2260
6.474.1.4 RuntimeException	2260
6.474.1.5 RuntimeException	2260
6.474.1.6 RuntimeException	2260
6.474.1.7 ~RuntimeException	2261
6.474.2 Member Function Documentation	2261
6.474.2.1 clone	2261
6.475decaf::security_provider::SecurityProvider Class Reference	2262
6.475.1 Constructor & Destructor Documentation	2262
6.475.1.1 ~SecurityProvider	2262
6.475.2 Member Function Documentation	2262
6.475.2.1 createX500Principal	2262
6.475.2.2 createX500Principal	2262
6.475.2.3 createX500Principal	2262
6.476decaf::security_provider::SecurityProviderMap Class Reference	2263
6.476.1 Detailed Description	2263
6.476.2 Member Function Documentation	2263
6.476.2.1 getInstance	2263
6.476.2.2 getSecurityProviderNames	2263
6.476.2.3 lookup	2264
6.476.2.4 registerSecurityProvider	2264
6.476.2.5 unregisterSecurityProvider	2264
6.477decaf::security_provider::SecurityProviderRegistrar Class Reference	2265
6.477.1 Detailed Description	2265
6.477.2 Constructor & Destructor Documentation	2265
6.477.2.1 SecurityProviderRegistrar	2265

6.477.2.2 ~SecurityProviderRegistrar	2265
6.477.3 Member Function Documentation	2266
6.477.3.1 getProvider	2266
6.478activemq::cmsutil::CmsTemplate::SendExecutor Class Reference	2267
6.478.1 Constructor & Destructor Documentation	2267
6.478.1.1 SendExecutor	2267
6.478.1.2 ~SendExecutor	2267
6.478.2 Member Function Documentation	2267
6.478.2.1 doInCms	2267
6.479decaf::net::ServerSocket Class Reference	2268
6.479.1 Detailed Description	2268
6.479.2 Member Typedef Documentation	2268
6.479.2.1 SocketAddress	2268
6.479.2.2 SocketHandle	2268
6.479.3 Constructor & Destructor Documentation	2268
6.479.3.1 ServerSocket	2268
6.479.3.2 ~ServerSocket	2269
6.479.4 Member Function Documentation	2269
6.479.4.1 accept	2269
6.479.4.2 bind	2269
6.479.4.3 bind	2269
6.479.4.4 close	2269
6.479.4.5 isBound	2269
6.480cms::Session Class Reference	2270
6.480.1 Detailed Description	2272
6.480.2 Member Enumeration Documentation	2273
6.480.2.1 AcknowledgeMode	2273
6.480.3 Constructor & Destructor Documentation	2273
6.480.3.1 ~Session	2273
6.480.4 Member Function Documentation	2273
6.480.4.1 close	2273
6.480.4.2 commit	2274
6.480.4.3 createBrowser	2274
6.480.4.4 createBrowser	2274
6.480.4.5 createBytesMessage	2275
6.480.4.6 createBytesMessage	2275

6.480.4.7 createConsumer	2275
6.480.4.8 createConsumer	2276
6.480.4.9 createConsumer	2276
6.480.4.10 createDurableConsumer	2277
6.480.4.11 createMapMessage	2277
6.480.4.12 createMessage	2278
6.480.4.13 createProducer	2278
6.480.4.14 createQueue	2278
6.480.4.15 createStreamMessage	2279
6.480.4.16 createTemporaryQueue	2279
6.480.4.17 createTemporaryTopic	2279
6.480.4.18 createTextMessage	2279
6.480.4.19 createTextMessage	2280
6.480.4.20 createTopic	2280
6.480.4.21 getAcknowledgeMode	2280
6.480.4.22 isTransacted	2281
6.480.4.23 recover	2281
6.480.4.24 rollback	2281
6.480.4.25 unsubscribe	2282
6.481 activemq::cmsutil::SessionCallback Class Reference	2283
6.481.1 Detailed Description	2283
6.481.2 Constructor & Destructor Documentation	2283
6.481.2.1 ~SessionCallback	2283
6.481.3 Member Function Documentation	2283
6.481.3.1 doInCms	2283
6.482 activemq::commands::SessionId Class Reference	2284
6.482.1 Member Typedef Documentation	2285
6.482.1.1 COMPARATOR	2285
6.482.2 Constructor & Destructor Documentation	2285
6.482.2.1 SessionId	2285
6.482.2.2 SessionId	2285
6.482.2.3 SessionId	2285
6.482.2.4 SessionId	2285
6.482.2.5 SessionId	2285
6.482.2.6 ~SessionId	2285
6.482.3 Member Function Documentation	2285

6.482.3.1 cloneDataStructure	2285
6.482.3.2 compareTo	2285
6.482.3.3 copyDataStructure	2285
6.482.3.4 equals	2286
6.482.3.5 equals	2286
6.482.3.6 getConnectionId	2286
6.482.3.7 getConnectionId	2286
6.482.3.8 getDataStructureType	2286
6.482.3.9 getParentId	2286
6.482.3.10 getValue	2286
6.482.3.11 operator<	2287
6.482.3.12 operator=	2287
6.482.3.13 operator==	2287
6.482.3.14 setConnectionId	2287
6.482.3.15 setValue	2287
6.482.3.16 toString	2287
6.482.4 Field Documentation	2287
6.482.4.1 connectionId	2287
6.482.4.2 ID_SESSIONID	2287
6.482.4.3 value	2287
6.483activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller Class Reference	2288
6.483.1 Detailed Description	2288
6.483.2 Constructor & Destructor Documentation	2289
6.483.2.1 SessionIdMarshaller	2289
6.483.2.2 ~SessionIdMarshaller	2289
6.483.3 Member Function Documentation	2289
6.483.3.1 createObject	2289
6.483.3.2 getDataStructureType	2289
6.483.3.3 looseMarshal	2289
6.483.3.4 looseUnmarshal	2290
6.483.3.5 tightMarshal1	2290
6.483.3.6 tightMarshal2	2291
6.483.3.7 tightUnmarshal	2291
6.484activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller Class Reference	2292
6.484.1 Detailed Description	2292
6.484.2 Constructor & Destructor Documentation	2293

6.484.2.1 SessionIdMarshaller	2293
6.484.2.2 ~SessionIdMarshaller	2293
6.484.3 Member Function Documentation	2293
6.484.3.1 createObject	2293
6.484.3.2 getDataStructureType	2293
6.484.3.3 looseMarshal	2293
6.484.3.4 looseUnmarshal	2294
6.484.3.5 tightMarshal1	2294
6.484.3.6 tightMarshal2	2295
6.484.3.7 tightUnmarshal	2295
6.485activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller Class Reference	2296
6.485.1 Detailed Description	2296
6.485.2 Constructor & Destructor Documentation	2297
6.485.2.1 SessionIdMarshaller	2297
6.485.2.2 ~SessionIdMarshaller	2297
6.485.3 Member Function Documentation	2297
6.485.3.1 createObject	2297
6.485.3.2 getDataStructureType	2297
6.485.3.3 looseMarshal	2297
6.485.3.4 looseUnmarshal	2298
6.485.3.5 tightMarshal1	2298
6.485.3.6 tightMarshal2	2299
6.485.3.7 tightUnmarshal	2299
6.486activemq::commands::SessionInfo Class Reference	2300
6.486.1 Constructor & Destructor Documentation	2301
6.486.1.1 SessionInfo	2301
6.486.1.2 SessionInfo	2301
6.486.1.3 ~SessionInfo	2301
6.486.2 Member Function Documentation	2301
6.486.2.1 cloneDataStructure	2301
6.486.2.2 copyDataStructure	2301
6.486.2.3 equals	2301
6.486.2.4 getAckMode	2302
6.486.2.5 getDataStructureType	2302
6.486.2.6 getSessionId	2302
6.486.2.7 getSessionId	2302

6.486.2.8 operator=	2302
6.486.2.9 setAckMode	2302
6.486.2.10 getSessionId	2302
6.486.2.11 toString	2302
6.486.2.12 visit	2302
6.486.3 Field Documentation	2303
6.486.3.1 ID_SESSIONINFO	2303
6.486.3.2 sessionId	2303
6.487activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller Class Reference	2304
6.487.1 Detailed Description	2304
6.487.2 Constructor & Destructor Documentation	2305
6.487.2.1 SessionInfoMarshaller	2305
6.487.2.2 ~SessionInfoMarshaller	2305
6.487.3 Member Function Documentation	2305
6.487.3.1 createObject	2305
6.487.3.2 getDataStructureType	2305
6.487.3.3 looseMarshal	2305
6.487.3.4 looseUnmarshal	2306
6.487.3.5 tightMarshal1	2306
6.487.3.6 tightMarshal2	2307
6.487.3.7 tightUnmarshal	2307
6.488activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller Class Reference	2308
6.488.1 Detailed Description	2308
6.488.2 Constructor & Destructor Documentation	2309
6.488.2.1 SessionInfoMarshaller	2309
6.488.2.2 ~SessionInfoMarshaller	2309
6.488.3 Member Function Documentation	2309
6.488.3.1 createObject	2309
6.488.3.2 getDataStructureType	2309
6.488.3.3 looseMarshal	2309
6.488.3.4 looseUnmarshal	2310
6.488.3.5 tightMarshal1	2310
6.488.3.6 tightMarshal2	2311
6.488.3.7 tightUnmarshal	2311
6.489activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller Class Reference	2312
6.489.1 Detailed Description	2312

6.489.2 Constructor & Destructor Documentation	2313
6.489.2.1 SessionInfoMarshaller	2313
6.489.2.2 ~SessionInfoMarshaller	2313
6.489.3 Member Function Documentation	2313
6.489.3.1 createObject	2313
6.489.3.2 getDataStructureType	2313
6.489.3.3 looseMarshal	2313
6.489.3.4 looseUnmarshal	2314
6.489.3.5 tightMarshal1	2314
6.489.3.6 tightMarshal2	2315
6.489.3.7 tightUnmarshal	2315
6.490activemq::cmsutil::SessionPool Class Reference	2316
6.490.1 Detailed Description	2316
6.490.2 Constructor & Destructor Documentation	2316
6.490.2.1 SessionPool	2316
6.490.2.2 ~SessionPool	2316
6.490.3 Member Function Documentation	2317
6.490.3.1 getResourceLifecycleManager	2317
6.490.3.2 returnSession	2317
6.490.3.3 takeSession	2317
6.491activemq::state::SessionState Class Reference	2318
6.491.1 Constructor & Destructor Documentation	2319
6.491.1.1 SessionState	2319
6.491.1.2 ~SessionState	2319
6.491.2 Member Function Documentation	2319
6.491.2.1 addConsumer	2319
6.491.2.2 addProducer	2319
6.491.2.3 checkShutdown	2319
6.491.2.4 getConsumerState	2319
6.491.2.5 getConsumerStates	2319
6.491.2.6 getInfo	2319
6.491.2.7 getProducerState	2319
6.491.2.8 getProducerStates	2319
6.491.2.9 removeConsumer	2319
6.491.2.10removeProducer	2319
6.491.2.11shutdown	2319

6.491.2.12	toString	2319
6.492	decaf::util::Set< E > Class Template Reference	2320
6.492.1	Detailed Description	2320
6.492.2	Constructor & Destructor Documentation	2320
6.492.2.1	~Set	2320
6.493	decaf::lang::Short Class Reference	2321
6.493.1	Constructor & Destructor Documentation	2322
6.493.1.1	Short	2322
6.493.1.2	Short	2323
6.493.1.3	~Short	2323
6.493.2	Member Function Documentation	2323
6.493.2.1	byteValue	2323
6.493.2.2	compareTo	2323
6.493.2.3	compareTo	2323
6.493.2.4	decode	2324
6.493.2.5	doubleValue	2324
6.493.2.6	equals	2324
6.493.2.7	equals	2324
6.493.2.8	float Value	2325
6.493.2.9	int Value	2325
6.493.2.10	longValue	2325
6.493.2.11	operator<	2325
6.493.2.12	operator<	2325
6.493.2.13	operator==	2326
6.493.2.14	operator==	2326
6.493.2.15	parseShort	2326
6.493.2.16	parseShort	2327
6.493.2.17	reverseBytes	2327
6.493.2.18	shortValue	2327
6.493.2.19	toString	2327
6.493.2.20	toString	2328
6.493.2.21	valueOf	2328
6.493.2.22	valueOf	2328
6.493.2.23	valueOf	2328
6.493.3	Field Documentation	2329
6.493.3.1	MAX_ VALUE	2329

6.493.3.2 MIN_VALUE	2329
6.493.3.3 SIZE	2329
6.494decaf::internal::nio::ShortArrayBuffer Class Reference	2330
6.494.1 Constructor & Destructor Documentation	2331
6.494.1.1 ShortArrayBuffer	2331
6.494.1.2 ShortArrayBuffer	2331
6.494.1.3 ShortArrayBuffer	2332
6.494.1.4 ShortArrayBuffer	2332
6.494.1.5 ~ShortArrayBuffer	2332
6.494.2 Member Function Documentation	2332
6.494.2.1 array	2332
6.494.2.2 arrayOffset	2333
6.494.2.3 asReadOnlyBuffer	2333
6.494.2.4 compact	2333
6.494.2.5 duplicate	2334
6.494.2.6 get	2334
6.494.2.7 get	2335
6.494.2.8 hasArray	2335
6.494.2.9 isReadOnly	2335
6.494.2.10put	2335
6.494.2.11put	2336
6.494.2.12setReadOnly	2336
6.494.2.13lice	2336
6.495decaf::nio::ShortBuffer Class Reference	2338
6.495.1 Detailed Description	2340
6.495.2 Constructor & Destructor Documentation	2340
6.495.2.1 ShortBuffer	2340
6.495.2.2 ~ShortBuffer	2340
6.495.3 Member Function Documentation	2340
6.495.3.1 allocate	2340
6.495.3.2 array	2341
6.495.3.3 arrayOffset	2341
6.495.3.4 asReadOnlyBuffer	2341
6.495.3.5 compact	2342
6.495.3.6 compareTo	2342
6.495.3.7 duplicate	2342

6.495.3.8 equals	2343
6.495.3.9 get	2343
6.495.3.10 get	2343
6.495.3.11 get	2344
6.495.3.12 get	2344
6.495.3.13 hasArray	2344
6.495.3.14 operator<	2344
6.495.3.15 operator==	2345
6.495.3.16 put	2345
6.495.3.17 put	2345
6.495.3.18 put	2346
6.495.3.19 put	2346
6.495.3.20 put	2347
6.495.3.21 slice	2347
6.495.3.22 toString	2347
6.495.3.23 wrap	2348
6.495.3.24 wrap	2348
6.496activemq::commands::ShutdownInfo Class Reference	2349
6.496.1 Constructor & Destructor Documentation	2350
6.496.1.1 ShutdownInfo	2350
6.496.1.2 ShutdownInfo	2350
6.496.1.3 ~ShutdownInfo	2350
6.496.2 Member Function Documentation	2350
6.496.2.1 cloneDataStructure	2350
6.496.2.2 copyDataStructure	2350
6.496.2.3 equals	2350
6.496.2.4 getDataStructureType	2350
6.496.2.5 isShutdownInfo	2351
6.496.2.6 operator=	2351
6.496.2.7 toString	2351
6.496.2.8 visit	2351
6.496.3 Field Documentation	2351
6.496.3.1 ID_SHUTDOWNINFO	2351
6.497activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller Class Reference	2352
6.497.1 Detailed Description	2352
6.497.2 Constructor & Destructor Documentation	2353

6.497.2.1 ShutdownInfoMarshaller	2353
6.497.2.2 ~ShutdownInfoMarshaller	2353
6.497.3 Member Function Documentation	2353
6.497.3.1 createObject	2353
6.497.3.2 getDataStructureType	2353
6.497.3.3 looseMarshal	2353
6.497.3.4 looseUnmarshal	2354
6.497.3.5 tightMarshal1	2354
6.497.3.6 tightMarshal2	2355
6.497.3.7 tightUnmarshal	2355
6.498activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller Class Reference	2356
6.498.1 Detailed Description	2356
6.498.2 Constructor & Destructor Documentation	2357
6.498.2.1 ShutdownInfoMarshaller	2357
6.498.2.2 ~ShutdownInfoMarshaller	2357
6.498.3 Member Function Documentation	2357
6.498.3.1 createObject	2357
6.498.3.2 getDataStructureType	2357
6.498.3.3 looseMarshal	2357
6.498.3.4 looseUnmarshal	2358
6.498.3.5 tightMarshal1	2358
6.498.3.6 tightMarshal2	2359
6.498.3.7 tightUnmarshal	2359
6.499activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller Class Reference	2360
6.499.1 Detailed Description	2360
6.499.2 Constructor & Destructor Documentation	2361
6.499.2.1 ShutdownInfoMarshaller	2361
6.499.2.2 ~ShutdownInfoMarshaller	2361
6.499.3 Member Function Documentation	2361
6.499.3.1 createObject	2361
6.499.3.2 getDataStructureType	2361
6.499.3.3 looseMarshal	2361
6.499.3.4 looseUnmarshal	2362
6.499.3.5 tightMarshal1	2362
6.499.3.6 tightMarshal2	2363

6.499.3.7 tightUnmarshal	2363
6.500decaf::security::SignatureException Class Reference	2364
6.500.1 Constructor & Destructor Documentation	2364
6.500.1.1 SignatureException	2364
6.500.1.2 SignatureException	2364
6.500.1.3 SignatureException	2365
6.500.1.4 SignatureException	2365
6.500.1.5 SignatureException	2365
6.500.1.6 SignatureException	2365
6.500.1.7 ~SignatureException	2366
6.500.2 Member Function Documentation	2366
6.500.2.1 clone	2366
6.501decaf::util::logging::SimpleFormatter Class Reference	2367
6.501.1 Detailed Description	2367
6.501.2 Constructor & Destructor Documentation	2367
6.501.2.1 SimpleFormatter	2367
6.501.2.2 ~SimpleFormatter	2367
6.501.3 Member Function Documentation	2367
6.501.3.1 format	2367
6.501.3.2 formatMessage	2368
6.501.3.3 getHead	2368
6.501.3.4 getTail	2368
6.502decaf::util::logging::SimpleLogger Class Reference	2369
6.502.1 Constructor & Destructor Documentation	2369
6.502.1.1 SimpleLogger	2369
6.502.1.2 ~SimpleLogger	2369
6.502.2 Member Function Documentation	2370
6.502.2.1 debug	2370
6.502.2.2 error	2370
6.502.2.3 fatal	2370
6.502.2.4 info	2370
6.502.2.5 log	2370
6.502.2.6 mark	2370
6.502.2.7 warn	2370
6.503decaf::net::Socket Class Reference	2371
6.503.1 Member Typedef Documentation	2372

6.503.1.1 SocketAddress	2372
6.503.1.2 SocketHandle	2372
6.503.2 Constructor & Destructor Documentation	2372
6.503.2.1 ~Socket	2372
6.503.3 Member Function Documentation	2372
6.503.3.1 connect	2372
6.503.3.2 getInputStream	2373
6.503.3.3 getKeepAlive	2373
6.503.3.4 getOutputStream	2373
6.503.3.5 getReceiveBufferSize	2373
6.503.3.6 getReuseAddress	2374
6.503.3.7 getSendBufferSize	2374
6.503.3.8 getSoLinger	2374
6.503.3.9 getSoTimeout	2375
6.503.3.10 isConnected	2375
6.503.3.11 setKeepAlive	2375
6.503.3.12 setReceiveBufferSize	2375
6.503.3.13 setReuseAddress	2376
6.503.3.14 setSendBufferSize	2376
6.503.3.15 setSoLinger	2376
6.503.3.16 setSoTimeout	2377
6.503.4 Field Documentation	2377
6.503.4.1 INVALID_SOCKET_HANDLE	2377
6.504 decaf::net::SocketError Class Reference	2378
6.504.1 Detailed Description	2378
6.504.2 Member Function Documentation	2378
6.504.2.1 getErrorCode	2378
6.504.2.2 getErrorString	2378
6.505 decaf::net::SocketException Class Reference	2379
6.505.1 Detailed Description	2379
6.505.2 Constructor & Destructor Documentation	2379
6.505.2.1 SocketException	2379
6.505.2.2 SocketException	2379
6.505.2.3 SocketException	2379
6.505.2.4 SocketException	2379
6.505.2.5 SocketException	2380

6.505.2.6 SocketException	2380
6.505.2.7 ~SocketException	2380
6.505.3 Member Function Documentation	2380
6.505.3.1 clone	2380
6.506decaf::net::SocketFactory Class Reference	2382
6.506.1 Detailed Description	2382
6.506.2 Constructor & Destructor Documentation	2382
6.506.2.1 ~SocketFactory	2382
6.506.3 Member Function Documentation	2382
6.506.3.1 createSocket	2382
6.507decaf::net::SocketInputStream Class Reference	2384
6.507.1 Detailed Description	2385
6.507.2 Constructor & Destructor Documentation	2385
6.507.2.1 SocketInputStream	2385
6.507.2.2 ~SocketInputStream	2385
6.507.3 Member Function Documentation	2385
6.507.3.1 available	2385
6.507.3.2 close	2385
6.507.3.3 lock	2386
6.507.3.4 mark	2386
6.507.3.5 markSupported	2386
6.507.3.6 notify	2386
6.507.3.7 notifyAll	2387
6.507.3.8 read	2387
6.507.3.9 read	2387
6.507.3.10reset	2388
6.507.3.11skip	2388
6.507.3.12inlock	2388
6.507.3.13wait	2388
6.507.3.14wait	2389
6.508decaf::net::SocketOutputStream Class Reference	2390
6.508.1 Detailed Description	2391
6.508.2 Constructor & Destructor Documentation	2391
6.508.2.1 SocketOutputStream	2391
6.508.2.2 ~SocketOutputStream	2391
6.508.3 Member Function Documentation	2391

6.508.3.1 close	2391
6.508.3.2 flush	2391
6.508.3.3 lock	2391
6.508.3.4 notify	2392
6.508.3.5 notifyAll	2392
6.508.3.6 unlock	2392
6.508.3.7 wait	2392
6.508.3.8 wait	2393
6.508.3.9 write	2393
6.508.3.10write	2393
6.508.3.11write	2393
6.509decaf::net::SocketTimeoutException Class Reference	2395
6.509.1 Constructor & Destructor Documentation	2395
6.509.1.1 SocketTimeoutException	2395
6.509.1.2 SocketTimeoutException	2395
6.509.1.3 SocketTimeoutException	2396
6.509.1.4 SocketTimeoutException	2396
6.509.1.5 SocketTimeoutException	2396
6.509.1.6 SocketTimeoutException	2396
6.509.1.7 ~SocketTimeoutException	2397
6.509.2 Member Function Documentation	2397
6.509.2.1 clone	2397
6.510activemq::commands::BrokerError::StackTraceElement Struct Reference	2398
6.510.1 Field Documentation	2398
6.510.1.1 ClassName	2398
6.510.1.2 FileName	2398
6.510.1.3 LineNumber	2398
6.510.1.4 MethodName	2398
6.511decaf::internal::io::StandardErrorOutputStream Class Reference	2399
6.511.1 Detailed Description	2400
6.511.2 Constructor & Destructor Documentation	2400
6.511.2.1 StandardErrorOutputStream	2400
6.511.2.2 ~StandardErrorOutputStream	2400
6.511.3 Member Function Documentation	2400
6.511.3.1 close	2400
6.511.3.2 flush	2400

6.511.3.3 lock	2400
6.511.3.4 notify	2400
6.511.3.5 notifyAll	2401
6.511.3.6 wait	2401
6.511.3.7 wait	2401
6.511.3.8 write	2401
6.511.3.9 write	2402
6.511.3.10write	2402
6.512decaf::internal::io::StandardInputStream Class Reference	2403
6.512.1 Constructor & Destructor Documentation	2404
6.512.1.1 StandardInputStream	2404
6.512.1.2 ~StandardInputStream	2404
6.512.2 Member Function Documentation	2404
6.512.2.1 available	2404
6.512.2.2 close	2404
6.512.2.3 lock	2404
6.512.2.4 mark	2405
6.512.2.5 markSupported	2405
6.512.2.6 notify	2405
6.512.2.7 notifyAll	2405
6.512.2.8 read	2406
6.512.2.9 read	2406
6.512.2.10reset	2406
6.512.2.11skip	2407
6.512.2.12unlock	2407
6.512.2.13wait	2407
6.512.2.14wait	2408
6.513decaf::internal::io::StandardOutputStream Class Reference	2409
6.513.1 Constructor & Destructor Documentation	2410
6.513.1.1 StandardOutputStream	2410
6.513.1.2 ~StandardOutputStream	2410
6.513.2 Member Function Documentation	2410
6.513.2.1 close	2410
6.513.2.2 flush	2410
6.513.2.3 lock	2410
6.513.2.4 notify	2410

6.513.2.5 notifyAll	2410
6.513.2.6 unlock	2411
6.513.2.7 wait	2411
6.513.2.8 wait	2411
6.513.2.9 write	2411
6.513.2.10 write	2412
6.513.2.11 write	2412
6.514 cms::Startable Class Reference	2413
6.514.1 Detailed Description	2413
6.514.2 Constructor & Destructor Documentation	2413
6.514.2.1 ~Startable	2413
6.514.3 Member Function Documentation	2413
6.514.3.1 start	2413
6.515 decaf::lang::STATIC_CAST_TOKEN Struct Reference	2414
6.516 activemq::core::ActiveMQConstants::StaticInitializer Class Reference	2415
6.516.1 Constructor & Destructor Documentation	2415
6.516.1.1 StaticInitializer	2415
6.516.1.2 ~StaticInitializer	2415
6.516.2 Field Documentation	2415
6.516.2.1 destOptionMap	2415
6.516.2.2 destOptions	2415
6.516.2.3 uriParams	2415
6.516.2.4 uriParamsMap	2415
6.517 decaf::util::StlList< E > Class Template Reference	2416
6.517.1 Detailed Description	2420
6.517.2 Constructor & Destructor Documentation	2420
6.517.2.1 StlList	2420
6.517.2.2 StlList	2421
6.517.2.3 StlList	2421
6.517.2.4 ~StlList	2421
6.517.3 Member Function Documentation	2421
6.517.3.1 add	2421
6.517.3.2 add	2421
6.517.3.3 addAll	2422
6.517.3.4 clear	2423
6.517.3.5 contains	2423

6.517.3.6 copy	2423
6.517.3.7 equals	2424
6.517.3.8 get	2424
6.517.3.9 indexOf	2424
6.517.3.10 isEmpty	2425
6.517.3.11 iterator	2425
6.517.3.12 iterator	2425
6.517.3.13 lastIndexOf	2425
6.517.3.14 listIterator	2425
6.517.3.15 listIterator	2426
6.517.3.16 listIterator	2426
6.517.3.17 listIterator	2426
6.517.3.18 remove	2426
6.517.3.19 remove	2427
6.517.3.20 set	2427
6.517.3.21 size	2428
6.518 decaf::util::StlMap< K, V, COMPARATOR > Class Template Reference	2429
6.518.1 Detailed Description	2432
6.518.2 Constructor & Destructor Documentation	2432
6.518.2.1 StlMap	2432
6.518.2.2 StlMap	2432
6.518.2.3 StlMap	2432
6.518.2.4 ~StlMap	2433
6.518.3 Member Function Documentation	2433
6.518.3.1 clear	2433
6.518.3.2 containsKey	2433
6.518.3.3 containsValue	2433
6.518.3.4 copy	2434
6.518.3.5 copy	2434
6.518.3.6 equals	2434
6.518.3.7 equals	2434
6.518.3.8 get	2434
6.518.3.9 get	2435
6.518.3.10 isEmpty	2435
6.518.3.11 keySet	2435
6.518.3.12 lock	2436

6.518.3.13	notify	2436
6.518.3.14	notifyAll	2436
6.518.3.15	put	2437
6.518.3.16	putAll	2437
6.518.3.17	putAll	2437
6.518.3.18	remove	2438
6.518.3.19	size	2438
6.518.3.20	unlock	2438
6.518.3.21	values	2438
6.518.3.22	wait	2439
6.518.3.23	wait	2439
6.519	decaf::util::StlQueue< T > Class Template Reference	2440
6.519.1	Detailed Description	2441
6.519.2	Constructor & Destructor Documentation	2442
6.519.2.1	StlQueue	2442
6.519.2.2	~StlQueue	2442
6.519.3	Member Function Documentation	2442
6.519.3.1	back	2442
6.519.3.2	back	2442
6.519.3.3	clear	2442
6.519.3.4	empty	2442
6.519.3.5	enqueueFront	2442
6.519.3.6	front	2443
6.519.3.7	front	2443
6.519.3.8	getSafeValue	2443
6.519.3.9	iterator	2443
6.519.3.10	lock	2443
6.519.3.11	notify	2443
6.519.3.12	notifyAll	2444
6.519.3.13	pop	2444
6.519.3.14	push	2444
6.519.3.15	reverse	2444
6.519.3.16	size	2444
6.519.3.17	toArray	2444
6.519.3.18	unlock	2445
6.519.3.19	wait	2445

6.519.3.20wait	2445
6.520decaf::util::StlSet< E > Class Template Reference	2446
6.520.1 Detailed Description	2448
6.520.2 Constructor & Destructor Documentation	2448
6.520.2.1 StlSet	2448
6.520.2.2 StlSet	2448
6.520.2.3 StlSet	2448
6.520.2.4 ~StlSet	2448
6.520.3 Member Function Documentation	2448
6.520.3.1 add	2448
6.520.3.2 clear	2449
6.520.3.3 contains	2450
6.520.3.4 copy	2450
6.520.3.5 equals	2450
6.520.3.6 isEmpty	2450
6.520.3.7 iterator	2450
6.520.3.8 iterator	2451
6.520.3.9 remove	2451
6.520.3.10size	2451
6.521activemq::wireformat::stomp::StompCommandConstants Class Reference	2452
6.521.1 Field Documentation	2454
6.521.1.1 ABORT	2454
6.521.1.2 ACK	2454
6.521.1.3 ACK_AUTO	2454
6.521.1.4 ACK_CLIENT	2454
6.521.1.5 ACK_INDIVIDUAL	2454
6.521.1.6 BEGIN	2454
6.521.1.7 BYTES	2454
6.521.1.8 COMMIT	2454
6.521.1.9 CONNECT	2454
6.521.1.10CONNECTED	2454
6.521.1.11DISCONNECT	2454
6.521.1.12ERROR_CMD	2454
6.521.1.13HEADER_ACK	2454
6.521.1.14HEADER_CLIENT_ID	2454
6.521.1.15HEADER_CONSUMERPRIORITY	2454

6.521.1.16	HEADER_CONTENTLENGTH	2454
6.521.1.17	HEADER_CORRELATIONID	2454
6.521.1.18	HEADER_DESTINATION	2454
6.521.1.19	HEADER_DISPATCH_ASYNC	2454
6.521.1.20	HEADER_EXCLUSIVE	2454
6.521.1.21	HEADER_EXPIRES	2454
6.521.1.22	HEADER_ID	2454
6.521.1.23	HEADER_JMSPRIORITY	2454
6.521.1.24	HEADER_LOGIN	2454
6.521.1.25	HEADER_MAXPENDINGMSGLIMIT	2454
6.521.1.26	HEADER_MESSAGE	2454
6.521.1.27	HEADER_MESSAGEID	2454
6.521.1.28	HEADER_NOLOCAL	2454
6.521.1.29	HEADER_OLDSUBSCRIPTIONNAME	2454
6.521.1.30	HEADER_PASSWORD	2454
6.521.1.31	HEADER_PERSISTENT	2454
6.521.1.32	HEADER_PREFETCHSIZE	2454
6.521.1.33	HEADER_RECEIPT_REQUIRED	2454
6.521.1.34	HEADER_RECEIPTID	2454
6.521.1.35	HEADER_REDELIVERED	2454
6.521.1.36	HEADER_REDELIVERYCOUNT	2454
6.521.1.37	HEADER_REPLYTO	2454
6.521.1.38	HEADER_REQUESTID	2454
6.521.1.39	HEADER_RESPONSEID	2454
6.521.1.40	HEADER_RETROACTIVE	2454
6.521.1.41	HEADER_SELECTOR	2454
6.521.1.42	HEADER_SESSIONID	2454
6.521.1.43	HEADER_SUBSCRIPTION	2454
6.521.1.44	HEADER_SUBSCRIPTIONNAME	2454
6.521.1.45	HEADER_TIMESTAMP	2454
6.521.1.46	HEADER_TRANSACTIONID	2454
6.521.1.47	HEADER_TRANSFORMATION	2454
6.521.1.48	HEADER_TRANSFORMATION_ERROR	2454
6.521.1.49	HEADER_TYPE	2454
6.521.1.50	MESSAGE	2454
6.521.1.51	QUEUE_PREFIX	2454

6.521.1.52	RECEIPT	2454
6.521.1.53	SEND	2454
6.521.1.54	SUBSCRIBE	2454
6.521.1.55	TEMPQUEUE_PREFIX	2454
6.521.1.56	TEMPTOPIC_PREFIX	2454
6.521.1.57	TEXT	2454
6.521.1.58	TOPIC_PREFIX	2454
6.521.1.59	UNSUBSCRIBE	2454
6.522	activemq::wireformat::stomp::StompFrame Class Reference	2456
6.522.1	Detailed Description	2457
6.522.2	Constructor & Destructor Documentation	2457
6.522.2.1	StompFrame	2457
6.522.2.2	~StompFrame	2457
6.522.3	Member Function Documentation	2457
6.522.3.1	clone	2457
6.522.3.2	copy	2457
6.522.3.3	fromStream	2458
6.522.3.4	getBody	2458
6.522.3.5	getBody	2458
6.522.3.6	getBodyLength	2458
6.522.3.7	getCommand	2458
6.522.3.8	getProperties	2458
6.522.3.9	getProperties	2458
6.522.3.10	getProperty	2459
6.522.3.11	hasProperty	2459
6.522.3.12	removeProperty	2459
6.522.3.13	setBody	2459
6.522.3.14	setCommand	2460
6.522.3.15	setProperty	2460
6.522.3.16	oStream	2460
6.523	activemq::wireformat::stomp::StompHelper Class Reference	2461
6.523.1	Detailed Description	2462
6.523.2	Constructor & Destructor Documentation	2462
6.523.2.1	StompHelper	2462
6.523.2.2	~StompHelper	2462
6.523.3	Member Function Documentation	2462

6.523.3.1 convertConsumerId	2462
6.523.3.2 convertConsumerId	2462
6.523.3.3 convertDestination	2462
6.523.3.4 convertDestination	2463
6.523.3.5 convertMessageId	2463
6.523.3.6 convertMessageId	2463
6.523.3.7 convertProducerId	2463
6.523.3.8 convertProducerId	2464
6.523.3.9 convertProperties	2464
6.523.3.10 convertProperties	2464
6.523.3.11 convertTransactionId	2464
6.523.3.12 convertTransactionId	2465
6.524activemq::wireformat::stomp::StompWireFormat Class Reference	2466
6.524.1 Constructor & Destructor Documentation	2467
6.524.1.1 StompWireFormat	2467
6.524.1.2 ~StompWireFormat	2467
6.524.2 Member Function Documentation	2467
6.524.2.1 createNegotiator	2467
6.524.2.2 getVersion	2467
6.524.2.3 hasNegotiator	2467
6.524.2.4 marshal	2468
6.524.2.5 setVersion	2468
6.524.2.6 unmarshal	2468
6.525activemq::wireformat::stomp::StompWireFormatFactory Class Reference	2470
6.525.1 Detailed Description	2470
6.525.2 Constructor & Destructor Documentation	2470
6.525.2.1 StompWireFormatFactory	2470
6.525.2.2 ~StompWireFormatFactory	2470
6.525.3 Member Function Documentation	2470
6.525.3.1 createWireFormat	2470
6.526cms::Stoppable Class Reference	2471
6.526.1 Detailed Description	2471
6.526.2 Constructor & Destructor Documentation	2471
6.526.2.1 ~Stoppable	2471
6.526.3 Member Function Documentation	2471
6.526.3.1 stop	2471

6.527	decaf::util::logging::StreamHandler Class Reference	2472
6.527.1	Constructor & Destructor Documentation	2473
6.527.1.1	StreamHandler	2473
6.527.1.2	StreamHandler	2473
6.527.1.3	~StreamHandler	2473
6.527.2	Member Function Documentation	2473
6.527.2.1	close	2473
6.527.2.2	flush	2473
6.527.2.3	getFilter	2473
6.527.2.4	getFormatter	2474
6.527.2.5	getLevel	2474
6.527.2.6	getOutputStream	2474
6.527.2.7	isLoggable	2474
6.527.2.8	publish	2474
6.527.2.9	setFilter	2475
6.527.2.10	setFormatter	2475
6.527.2.11	setLevel	2475
6.528	cms::StreamMessage Class Reference	2476
6.528.1	Detailed Description	2477
6.528.2	Constructor & Destructor Documentation	2478
6.528.2.1	~StreamMessage	2478
6.528.3	Member Function Documentation	2478
6.528.3.1	readBoolean	2478
6.528.3.2	readByte	2478
6.528.3.3	readBytes	2479
6.528.3.4	readBytes	2479
6.528.3.5	readChar	2480
6.528.3.6	readDouble	2480
6.528.3.7	readFloat	2481
6.528.3.8	readInt	2481
6.528.3.9	readLong	2482
6.528.3.10	readShort	2482
6.528.3.11	readString	2482
6.528.3.12	readUnsignedShort	2483
6.528.3.13	writeBoolean	2483
6.528.3.14	writeByte	2483

6.528.3.15	writeBytes	2484
6.528.3.16	writeBytes	2484
6.528.3.17	writeChar	2485
6.528.3.18	writeDouble	2485
6.528.3.19	writeFloat	2485
6.528.3.20	writeInt	2486
6.528.3.21	writeLong	2486
6.528.3.22	writeShort	2486
6.528.3.23	writeString	2487
6.528.3.24	writeUnsignedShort	2487
6.529	decaf::util::StringTokenizer Class Reference	2488
6.529.1	Constructor & Destructor Documentation	2488
6.529.1.1	StringTokenizer	2488
6.529.1.2	~StringTokenizer	2489
6.529.2	Member Function Documentation	2489
6.529.2.1	countTokens	2489
6.529.2.2	hasMoreTokens	2489
6.529.2.3	nextToken	2489
6.529.2.4	nextToken	2489
6.529.2.5	reset	2490
6.529.2.6	toArray	2490
6.530	activemq::commands::SubscriptionInfo Class Reference	2491
6.530.1	Constructor & Destructor Documentation	2492
6.530.1.1	SubscriptionInfo	2492
6.530.1.2	SubscriptionInfo	2492
6.530.1.3	~SubscriptionInfo	2492
6.530.2	Member Function Documentation	2492
6.530.2.1	cloneDataStructure	2492
6.530.2.2	copyDataStructure	2492
6.530.2.3	equals	2492
6.530.2.4	getClientId	2493
6.530.2.5	getClientId	2493
6.530.2.6	getDataStructureType	2493
6.530.2.7	getDestination	2494
6.530.2.8	getDestination	2494
6.530.2.9	getSelector	2494

6.530.2.10	getSelector	2494
6.530.2.11	getSubscriptionName	2494
6.530.2.12	getSubscriptionName	2494
6.530.2.13	getSubscribedDestination	2494
6.530.2.14	getSubscribedDestination	2494
6.530.2.15	operator=	2494
6.530.2.16	setClientId	2494
6.530.2.17	setDestination	2494
6.530.2.18	setSelector	2494
6.530.2.19	setSubscriptionName	2494
6.530.2.20	setSubscribedDestination	2494
6.530.2.21	toString	2494
6.530.3	Field Documentation	2495
6.530.3.1	clientId	2495
6.530.3.2	destination	2495
6.530.3.3	ID_SUBSCRIPTIONINFO	2495
6.530.3.4	selector	2495
6.530.3.5	subscriptionName	2495
6.530.3.6	subscribedDestination	2495
6.531	activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller Class	
	Reference	2496
6.531.1	Detailed Description	2496
6.531.2	Constructor & Destructor Documentation	2497
6.531.2.1	SubscriptionInfoMarshaller	2497
6.531.2.2	~SubscriptionInfoMarshaller	2497
6.531.3	Member Function Documentation	2497
6.531.3.1	createObject	2497
6.531.3.2	getDataStructureType	2497
6.531.3.3	looseMarshal	2497
6.531.3.4	looseUnmarshal	2498
6.531.3.5	tightMarshal1	2498
6.531.3.6	tightMarshal2	2499
6.531.3.7	tightUnmarshal	2499
6.532	activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller Class	
	Reference	2500
6.532.1	Detailed Description	2500
6.532.2	Constructor & Destructor Documentation	2501

6.532.2.1 SubscriptionInfoMarshaller	2501
6.532.2.2 ~SubscriptionInfoMarshaller	2501
6.532.3 Member Function Documentation	2501
6.532.3.1 createObject	2501
6.532.3.2 getDataStructureType	2501
6.532.3.3 looseMarshal	2501
6.532.3.4 looseUnmarshal	2502
6.532.3.5 tightMarshal1	2502
6.532.3.6 tightMarshal2	2503
6.532.3.7 tightUnmarshal	2503
6.533activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller Class Reference	2504
6.533.1 Detailed Description	2504
6.533.2 Constructor & Destructor Documentation	2505
6.533.2.1 SubscriptionInfoMarshaller	2505
6.533.2.2 ~SubscriptionInfoMarshaller	2505
6.533.3 Member Function Documentation	2505
6.533.3.1 createObject	2505
6.533.3.2 getDataStructureType	2505
6.533.3.3 looseMarshal	2505
6.533.3.4 looseUnmarshal	2506
6.533.3.5 tightMarshal1	2506
6.533.3.6 tightMarshal2	2507
6.533.3.7 tightUnmarshal	2507
6.534decaf::util::concurrent::Synchronizable Class Reference	2508
6.534.1 Detailed Description	2508
6.534.2 Constructor & Destructor Documentation	2508
6.534.2.1 ~Synchronizable	2508
6.534.3 Member Function Documentation	2508
6.534.3.1 lock	2508
6.534.3.2 notify	2510
6.534.3.3 notifyAll	2511
6.534.3.4 unlock	2512
6.534.3.5 wait	2513
6.534.3.6 wait	2514
6.535activemq::core::Synchronization Class Reference	2516
6.535.1 Detailed Description	2516

6.535.2 Constructor & Destructor Documentation	2516
6.535.2.1 ~Synchronization	2516
6.535.3 Member Function Documentation	2516
6.535.3.1 afterCommit	2516
6.535.3.2 afterRollback	2516
6.535.3.3 beforeEnd	2516
6.536decaf::lang::System Class Reference	2517
6.536.1 Constructor & Destructor Documentation	2517
6.536.1.1 System	2517
6.536.1.2 ~System	2517
6.536.2 Member Function Documentation	2517
6.536.2.1 currentTimeMillis	2517
6.536.2.2 getenv	2517
6.536.2.3 getenv	2518
6.536.2.4 nanoTime	2518
6.536.2.5 setenv	2518
6.536.2.6 unsetenv	2519
6.537activemq::threads::Task Class Reference	2520
6.537.1 Detailed Description	2520
6.537.2 Constructor & Destructor Documentation	2520
6.537.2.1 ~Task	2520
6.537.3 Member Function Documentation	2520
6.537.3.1 iterate	2520
6.538decaf::util::concurrent::TaskListener Class Reference	2521
6.538.1 Constructor & Destructor Documentation	2521
6.538.1.1 ~TaskListener	2521
6.538.2 Member Function Documentation	2521
6.538.2.1 onTaskComplete	2521
6.538.2.2 onTaskException	2521
6.539activemq::threads::TaskRunner Class Reference	2522
6.539.1 Constructor & Destructor Documentation	2522
6.539.1.1 ~TaskRunner	2522
6.539.2 Member Function Documentation	2522
6.539.2.1 shutdown	2522
6.539.2.2 shutdown	2522
6.539.2.3 wakeup	2523

6.540	decaf::net::TcpSocket Class Reference	2524
6.540.1	Detailed Description	2525
6.540.2	Constructor & Destructor Documentation	2525
6.540.2.1	TcpSocket	2525
6.540.2.2	TcpSocket	2526
6.540.2.3	~TcpSocket	2526
6.540.3	Member Function Documentation	2526
6.540.3.1	checkResult	2526
6.540.3.2	close	2526
6.540.3.3	connect	2526
6.540.3.4	connect	2526
6.540.3.5	getInputStream	2527
6.540.3.6	getKeepAlive	2527
6.540.3.7	getOutputStream	2527
6.540.3.8	getReceiveBufferSize	2527
6.540.3.9	getReuseAddress	2528
6.540.3.10	getSendBufferSize	2528
6.540.3.11	getSocketHandle	2528
6.540.3.12	getSoLinger	2528
6.540.3.13	getSoTimeout	2529
6.540.3.14	getTcpNoDelay	2529
6.540.3.15	isConnected	2529
6.540.3.16	setKeepAlive	2529
6.540.3.17	setReceiveBufferSize	2530
6.540.3.18	setReuseAddress	2530
6.540.3.19	setSendBufferSize	2530
6.540.3.20	setSoLinger	2530
6.540.3.21	setSoTimeout	2531
6.540.3.22	setTcpNoDelay	2531
6.541	activemq::transport::tcp::TcpTransport Class Reference	2532
6.541.1	Detailed Description	2532
6.541.2	Constructor & Destructor Documentation	2532
6.541.2.1	TcpTransport	2532
6.541.2.2	TcpTransport	2533
6.541.2.3	~TcpTransport	2533
6.541.3	Member Function Documentation	2533

6.541.3.1 close	2533
6.541.3.2 isClosed	2533
6.541.3.3 isConnected	2533
6.541.3.4 isFaultTolerant	2534
6.542activemq::transport::tcp::TcpTransportFactory Class Reference	2535
6.542.1 Detailed Description	2535
6.542.2 Constructor & Destructor Documentation	2536
6.542.2.1 ~TcpTransportFactory	2536
6.542.3 Member Function Documentation	2536
6.542.3.1 create	2536
6.542.3.2 createComposite	2536
6.542.3.3 doCreateComposite	2536
6.543cms::TemporaryQueue Class Reference	2538
6.543.1 Detailed Description	2538
6.543.2 Constructor & Destructor Documentation	2538
6.543.2.1 ~TemporaryQueue	2538
6.543.3 Member Function Documentation	2538
6.543.3.1 destroy	2538
6.543.3.2 getQueueName	2539
6.544cms::TemporaryTopic Class Reference	2540
6.544.1 Detailed Description	2540
6.544.2 Constructor & Destructor Documentation	2540
6.544.2.1 ~TemporaryTopic	2540
6.544.3 Member Function Documentation	2540
6.544.3.1 destroy	2540
6.544.3.2 getTopicName	2541
6.545cms::TextMessage Class Reference	2542
6.545.1 Detailed Description	2542
6.545.2 Constructor & Destructor Documentation	2542
6.545.2.1 ~TextMessage	2542
6.545.3 Member Function Documentation	2542
6.545.3.1 getText	2542
6.545.3.2 setText	2543
6.545.3.3 setText	2543
6.546decaf::lang::Thread Class Reference	2544
6.546.1 Detailed Description	2544

6.546.2 Constructor & Destructor Documentation	2544
6.546.2.1 Thread	2544
6.546.2.2 Thread	2545
6.546.2.3 ~Thread	2545
6.546.3 Member Function Documentation	2545
6.546.3.1 getId	2545
6.546.3.2 join	2545
6.546.3.3 run	2545
6.546.3.4 sleep	2545
6.546.3.5 start	2545
6.546.3.6 yield	2546
6.547decaf::util::concurrent::ThreadFactory Class Reference	2547
6.547.1 Detailed Description	2547
6.547.2 Constructor & Destructor Documentation	2547
6.547.2.1 ~ThreadFactory	2547
6.547.3 Member Function Documentation	2547
6.547.3.1 newThread	2547
6.548decaf::util::concurrent::ThreadPool Class Reference	2549
6.548.1 Detailed Description	2550
6.548.2 Member Typedef Documentation	2551
6.548.2.1 Task	2551
6.548.3 Constructor & Destructor Documentation	2551
6.548.3.1 ThreadPool	2551
6.548.3.2 ~ThreadPool	2551
6.548.4 Member Function Documentation	2551
6.548.4.1 deQueueTask	2551
6.548.4.2 getBacklog	2551
6.548.4.3 getBlockSize	2551
6.548.4.4 getFreeThreadCount	2551
6.548.4.5 getInstance	2552
6.548.4.6 getMaxThreads	2552
6.548.4.7 getPoolSize	2552
6.548.4.8 onTaskCompleted	2552
6.548.4.9 onTaskException	2552
6.548.4.10onTaskStarted	2553
6.548.4.11queueTask	2553

6.548.4.12	reserve	2553
6.548.4.13	setBlockSize	2553
6.548.4.14	setMaxThreads	2554
6.548.5	Field Documentation	2554
6.548.5.1	DEFAULT_MAX_BLOCK_SIZE	2554
6.548.5.2	DEFAULT_MAX_POOL_SIZE	2554
6.549	decaf::lang::Throwable Class Reference	2555
6.549.1	Detailed Description	2555
6.549.2	Constructor & Destructor Documentation	2556
6.549.2.1	Throwable	2556
6.549.2.2	~Throwable	2556
6.549.3	Member Function Documentation	2556
6.549.3.1	clone	2556
6.549.3.2	getCause	2557
6.549.3.3	getMessage	2557
6.549.3.4	getStackTrace	2557
6.549.3.5	getStackTraceString	2557
6.549.3.6	initCause	2558
6.549.3.7	printStackTrace	2558
6.549.3.8	printStackTrace	2558
6.549.3.9	setMark	2558
6.550	decaf::util::concurrent::TimeoutException Class Reference	2559
6.550.1	Constructor & Destructor Documentation	2559
6.550.1.1	TimeoutException	2559
6.550.1.2	TimeoutException	2559
6.550.1.3	TimeoutException	2560
6.550.1.4	TimeoutException	2560
6.550.1.5	TimeoutException	2560
6.550.1.6	TimeoutException	2560
6.550.1.7	~TimeoutException	2561
6.550.2	Member Function Documentation	2561
6.550.2.1	clone	2561
6.551	decaf::util::concurrent::TimeUnit Class Reference	2562
6.551.1	Detailed Description	2563
6.551.2	Constructor & Destructor Documentation	2564
6.551.2.1	TimeUnit	2564

6.551.2.2 ~TimeUnit	2564
6.551.3 Member Function Documentation	2564
6.551.3.1 compareTo	2564
6.551.3.2 convert	2565
6.551.3.3 equals	2565
6.551.3.4 operator<	2565
6.551.3.5 operator==	2565
6.551.3.6 sleep	2566
6.551.3.7 timedWait	2566
6.551.3.8 toDays	2567
6.551.3.9 toHours	2567
6.551.3.10 toMicros	2567
6.551.3.11 toMillis	2568
6.551.3.12 toMinutes	2568
6.551.3.13 toNanos	2568
6.551.3.14 toSeconds	2569
6.551.3.15 toString	2569
6.551.3.16 valueOf	2569
6.551.4 Field Documentation	2570
6.551.4.1 DAYS	2570
6.551.4.2 HOURS	2570
6.551.4.3 MICROSECONDS	2570
6.551.4.4 MILLISECONDS	2570
6.551.4.5 MINUTES	2570
6.551.4.6 NANOSECONDS	2570
6.551.4.7 SECONDS	2570
6.551.4.8 values	2570
6.552 cms::Topic Class Reference	2571
6.552.1 Detailed Description	2571
6.552.2 Constructor & Destructor Documentation	2571
6.552.2.1 ~Topic	2571
6.552.3 Member Function Documentation	2571
6.552.3.1 getTopicName	2571
6.553 activemq::state::Tracked Class Reference	2572
6.553.1 Constructor & Destructor Documentation	2572
6.553.1.1 Tracked	2572

6.553.1.2 Tracked	2572
6.553.1.3 ~Tracked	2572
6.553.2 Member Function Documentation	2572
6.553.2.1 isWaitingForResponse	2572
6.553.2.2 onResponse	2572
6.554activemq::commands::TransactionId Class Reference	2573
6.554.1 Member Typedef Documentation	2573
6.554.1.1 COMPARATOR	2573
6.554.2 Constructor & Destructor Documentation	2574
6.554.2.1 TransactionId	2574
6.554.2.2 TransactionId	2574
6.554.2.3 ~TransactionId	2574
6.554.3 Member Function Documentation	2574
6.554.3.1 cloneDataStructure	2574
6.554.3.2 compareTo	2574
6.554.3.3 copyDataStructure	2574
6.554.3.4 equals	2574
6.554.3.5 equals	2575
6.554.3.6 getDataStructureType	2575
6.554.3.7 operator<	2575
6.554.3.8 operator=	2575
6.554.3.9 operator==	2575
6.554.3.10toString	2575
6.554.4 Field Documentation	2576
6.554.4.1 ID_TRANSACTIONID	2576
6.555activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller Class Reference	2577
6.555.1 Detailed Description	2577
6.555.2 Constructor & Destructor Documentation	2578
6.555.2.1 TransactionIdMarshaller	2578
6.555.2.2 ~TransactionIdMarshaller	2578
6.555.3 Member Function Documentation	2578
6.555.3.1 looseMarshal	2578
6.555.3.2 looseUnmarshal	2578
6.555.3.3 tightMarshal1	2579
6.555.3.4 tightMarshal2	2579
6.555.3.5 tightUnmarshal	2580

6.556activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller Class Reference	2581
6.556.1 Detailed Description	2581
6.556.2 Constructor & Destructor Documentation	2582
6.556.2.1 TransactionIdMarshaller	2582
6.556.2.2 ~TransactionIdMarshaller	2582
6.556.3 Member Function Documentation	2582
6.556.3.1 looseMarshal	2582
6.556.3.2 looseUnmarshal	2582
6.556.3.3 tightMarshal1	2583
6.556.3.4 tightMarshal2	2583
6.556.3.5 tightUnmarshal	2584
6.557activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller Class Reference	2585
6.557.1 Detailed Description	2585
6.557.2 Constructor & Destructor Documentation	2586
6.557.2.1 TransactionIdMarshaller	2586
6.557.2.2 ~TransactionIdMarshaller	2586
6.557.3 Member Function Documentation	2586
6.557.3.1 looseMarshal	2586
6.557.3.2 looseUnmarshal	2586
6.557.3.3 tightMarshal1	2587
6.557.3.4 tightMarshal2	2587
6.557.3.5 tightUnmarshal	2588
6.558activemq::commands::TransactionInfo Class Reference	2589
6.558.1 Constructor & Destructor Documentation	2590
6.558.1.1 TransactionInfo	2590
6.558.1.2 TransactionInfo	2590
6.558.1.3 ~TransactionInfo	2590
6.558.2 Member Function Documentation	2590
6.558.2.1 cloneDataStructure	2590
6.558.2.2 copyDataStructure	2590
6.558.2.3 equals	2590
6.558.2.4 getConnectionId	2591
6.558.2.5 getConnectionId	2591
6.558.2.6 getDataStructureType	2591
6.558.2.7 getTransactionId	2591

6.558.2.8	getTransactionId	2591
6.558.2.9	getType	2591
6.558.2.10	isTransactionInfo	2591
6.558.2.11	operator=	2592
6.558.2.12	setConnectionId	2592
6.558.2.13	setTransactionId	2592
6.558.2.14	setType	2592
6.558.2.15	toString	2592
6.558.2.16	visit	2592
6.558.3	Field Documentation	2592
6.558.3.1	connectionId	2592
6.558.3.2	ID_TRANSACTIONINFO	2592
6.558.3.3	transactionId	2592
6.558.3.4	type	2592
6.559	activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller Class Reference	2594
6.559.1	Detailed Description	2594
6.559.2	Constructor & Destructor Documentation	2595
6.559.2.1	TransactionInfoMarshaller	2595
6.559.2.2	~TransactionInfoMarshaller	2595
6.559.3	Member Function Documentation	2595
6.559.3.1	createObject	2595
6.559.3.2	getDataStructureType	2595
6.559.3.3	looseMarshal	2595
6.559.3.4	looseUnmarshal	2596
6.559.3.5	tightMarshal1	2596
6.559.3.6	tightMarshal2	2597
6.559.3.7	tightUnmarshal	2597
6.560	activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller Class Reference	2598
6.560.1	Detailed Description	2598
6.560.2	Constructor & Destructor Documentation	2599
6.560.2.1	TransactionInfoMarshaller	2599
6.560.2.2	~TransactionInfoMarshaller	2599
6.560.3	Member Function Documentation	2599
6.560.3.1	createObject	2599
6.560.3.2	getDataStructureType	2599

6.560.3.3 looseMarshal	2599
6.560.3.4 looseUnmarshal	2600
6.560.3.5 tightMarshal1	2600
6.560.3.6 tightMarshal2	2601
6.560.3.7 tightUnmarshal	2601
6.561activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller Class Reference	2602
6.561.1 Detailed Description	2602
6.561.2 Constructor & Destructor Documentation	2603
6.561.2.1 TransactionInfoMarshaller	2603
6.561.2.2 ~TransactionInfoMarshaller	2603
6.561.3 Member Function Documentation	2603
6.561.3.1 createObject	2603
6.561.3.2 getDataStructureType	2603
6.561.3.3 looseMarshal	2603
6.561.3.4 looseUnmarshal	2604
6.561.3.5 tightMarshal1	2604
6.561.3.6 tightMarshal2	2605
6.561.3.7 tightUnmarshal	2605
6.562activemq::state::TransactionState Class Reference	2606
6.562.1 Constructor & Destructor Documentation	2607
6.562.1.1 TransactionState	2607
6.562.1.2 ~TransactionState	2607
6.562.2 Member Function Documentation	2607
6.562.2.1 addCommand	2607
6.562.2.2 checkShutdown	2607
6.562.2.3 getCommands	2607
6.562.2.4 getId	2607
6.562.2.5 getPreparedResult	2607
6.562.2.6 isPrepared	2607
6.562.2.7 setPrepared	2607
6.562.2.8 setPreparedResult	2607
6.562.2.9 shutdown	2607
6.562.2.10toString	2607
6.563activemq::transport::Transport Class Reference	2608
6.563.1 Detailed Description	2609
6.563.2 Constructor & Destructor Documentation	2609

6.563.2.1 ~Transport	2609
6.563.3 Member Function Documentation	2609
6.563.3.1 getRemoteAddress	2609
6.563.3.2 getTransportListener	2609
6.563.3.3 isClosed	2609
6.563.3.4 isConnected	2610
6.563.3.5 isFaultTolerant	2610
6.563.3.6 narrow	2610
6.563.3.7 oneway	2610
6.563.3.8 reconnect	2611
6.563.3.9 request	2611
6.563.3.10 request	2612
6.563.3.11 setTransportListener	2612
6.563.3.12 setWireFormat	2612
6.564activemq::transport::TransportFactory Class Reference	2614
6.564.1 Detailed Description	2614
6.564.2 Constructor & Destructor Documentation	2614
6.564.2.1 ~TransportFactory	2614
6.564.3 Member Function Documentation	2614
6.564.3.1 create	2614
6.564.3.2 createComposite	2615
6.565activemq::transport::TransportFilter Class Reference	2616
6.565.1 Detailed Description	2617
6.565.2 Constructor & Destructor Documentation	2618
6.565.2.1 TransportFilter	2618
6.565.2.2 ~TransportFilter	2618
6.565.3 Member Function Documentation	2618
6.565.3.1 close	2618
6.565.3.2 fire	2618
6.565.3.3 fire	2618
6.565.3.4 getRemoteAddress	2619
6.565.3.5 getTransportListener	2619
6.565.3.6 isClosed	2619
6.565.3.7 isConnected	2619
6.565.3.8 isFaultTolerant	2619
6.565.3.9 narrow	2620

6.565.3.10onCommand	2620
6.565.3.11oneway	2620
6.565.3.12onException	2621
6.565.3.13reconnect	2621
6.565.3.14request	2621
6.565.3.15request	2622
6.565.3.16setTransportListener	2622
6.565.3.17setWireFormat	2622
6.565.3.18start	2622
6.565.3.19transportInterrupted	2623
6.565.3.20transportResumed	2623
6.565.4 Field Documentation	2623
6.565.4.1 listener	2623
6.565.4.2 next	2623
6.566activemq::transport::TransportListener Class Reference	2624
6.566.1 Detailed Description	2624
6.566.2 Constructor & Destructor Documentation	2624
6.566.2.1 ~TransportListener	2624
6.566.3 Member Function Documentation	2624
6.566.3.1 onCommand	2624
6.566.3.2 onException	2625
6.566.3.3 transportInterrupted	2625
6.566.3.4 transportResumed	2625
6.567activemq::transport::TransportRegistry Class Reference	2626
6.567.1 Detailed Description	2626
6.567.2 Constructor & Destructor Documentation	2627
6.567.2.1 ~TransportRegistry	2627
6.567.3 Member Function Documentation	2627
6.567.3.1 findFactory	2627
6.567.3.2 getInstance	2627
6.567.3.3 getTransportNames	2627
6.567.3.4 registerFactory	2627
6.567.3.5 unregisterFactory	2628
6.568decaf::net::UnknownHostException Class Reference	2629
6.568.1 Constructor & Destructor Documentation	2629
6.568.1.1 UnknownHostException	2629

6.568.1.2 UnknownHostException	2629
6.568.1.3 UnknownHostException	2630
6.568.1.4 UnknownHostException	2630
6.568.1.5 UnknownHostException	2630
6.568.1.6 UnknownHostException	2630
6.568.1.7 ~UnknownHostException	2631
6.568.2 Member Function Documentation	2631
6.568.2.1 clone	2631
6.569decaf::net::UnknownServiceException Class Reference	2632
6.569.1 Constructor & Destructor Documentation	2632
6.569.1.1 UnknownServiceException	2632
6.569.1.2 UnknownServiceException	2632
6.569.1.3 UnknownServiceException	2633
6.569.1.4 UnknownServiceException	2633
6.569.1.5 UnknownServiceException	2633
6.569.1.6 UnknownServiceException	2633
6.569.1.7 ~UnknownServiceException	2634
6.569.2 Member Function Documentation	2634
6.569.2.1 clone	2634
6.570decaf::lang::exceptions::UnsupportedOperationException Class Reference	2635
6.570.1 Constructor & Destructor Documentation	2635
6.570.1.1 UnsupportedOperationException	2635
6.570.1.2 UnsupportedOperationException	2635
6.570.1.3 UnsupportedOperationException	2636
6.570.1.4 UnsupportedOperationException	2636
6.570.1.5 UnsupportedOperationException	2636
6.570.1.6 UnsupportedOperationException	2636
6.570.1.7 ~UnsupportedOperationException	2637
6.570.2 Member Function Documentation	2637
6.570.2.1 clone	2637
6.571decaf::net::URI Class Reference	2638
6.571.1 Detailed Description	2640
6.571.2 Constructor & Destructor Documentation	2640
6.571.2.1 URI	2640
6.571.2.2 URI	2640
6.571.2.3 URI	2640

6.571.2.4 URI	2640
6.571.2.5 URI	2641
6.571.2.6 URI	2641
6.571.2.7 URI	2641
6.571.2.8 ~URI	2642
6.571.3 Member Function Documentation	2642
6.571.3.1 compareTo	2642
6.571.3.2 create	2642
6.571.3.3 equals	2642
6.571.3.4 getAuthority	2642
6.571.3.5 getFragment	2642
6.571.3.6 getHost	2643
6.571.3.7 getPath	2643
6.571.3.8 getPort	2643
6.571.3.9 getQuery	2643
6.571.3.10 getRawAuthority	2643
6.571.3.11 getRawFragment	2643
6.571.3.12 getRawPath	2643
6.571.3.13 getRawQuery	2644
6.571.3.14 getRawSchemeSpecificPart	2644
6.571.3.15 getRawUserInfo	2644
6.571.3.16 getScheme	2644
6.571.3.17 getSchemeSpecificPart	2644
6.571.3.18 getUserInfo	2645
6.571.3.19 sAbsolute	2645
6.571.3.20 sOpaque	2645
6.571.3.21 normalize	2645
6.571.3.22 operator<	2645
6.571.3.23 operator==	2646
6.571.3.24 parseServerAuthority	2646
6.571.3.25 relativize	2646
6.571.3.26 resolve	2647
6.571.3.27 resolve	2647
6.571.3.28 oString	2648
6.571.3.29 oURL	2648
6.572 decaf::internal::net::URIEncoderDecoder Class Reference	2649

6.572.1 Constructor & Destructor Documentation	2649
6.572.1.1 URLEncoderDecoder	2649
6.572.1.2 ~URLEncoderDecoder	2649
6.572.2 Member Function Documentation	2649
6.572.2.1 decode	2649
6.572.2.2 encodeOthers	2650
6.572.2.3 quoteIllegal	2650
6.572.2.4 validate	2650
6.572.2.5 validateSimple	2651
6.573decaf::internal::net::URIHelper Class Reference	2652
6.573.1 Detailed Description	2653
6.573.2 Constructor & Destructor Documentation	2653
6.573.2.1 URIHelper	2653
6.573.2.2 URIHelper	2653
6.573.2.3 ~URIHelper	2654
6.573.3 Member Function Documentation	2654
6.573.3.1 isValidDomainName	2654
6.573.3.2 isValidHexChar	2654
6.573.3.3 isValidHost	2654
6.573.3.4 isValidIP4Word	2654
6.573.3.5 isValidIP6Address	2655
6.573.3.6 isValidIPv4Address	2655
6.573.3.7 parseAuthority	2655
6.573.3.8 parseURI	2656
6.573.3.9 validateAuthority	2656
6.573.3.10validateFragment	2656
6.573.3.11validatePath	2657
6.573.3.12validateQuery	2657
6.573.3.13validateScheme	2657
6.573.3.14validateSsp	2658
6.573.3.15validateUserinfo	2658
6.574activemq::transport::failover::URIPool Class Reference	2659
6.574.1 Constructor & Destructor Documentation	2659
6.574.1.1 URIPool	2659
6.574.1.2 URIPool	2659
6.574.1.3 ~URIPool	2660

6.574.2 Member Function Documentation	2660
6.574.2.1 addURI	2660
6.574.2.2 addURIs	2660
6.574.2.3 getURI	2660
6.574.2.4 isRandomize	2660
6.574.2.5 removeURI	2660
6.574.2.6 setRandomize	2661
6.575activemq::util::URISupport Class Reference	2662
6.575.1 Member Function Documentation	2662
6.575.1.1 createQueryString	2662
6.575.1.2 parseComposite	2663
6.575.1.3 parseQuery	2663
6.575.1.4 parseQuery	2663
6.575.1.5 parseURL	2664
6.576decaf::net::URISyntaxException Class Reference	2665
6.576.1 Constructor & Destructor Documentation	2665
6.576.1.1 URISyntaxException	2665
6.576.1.2 URISyntaxException	2666
6.576.1.3 URISyntaxException	2666
6.576.1.4 URISyntaxException	2666
6.576.1.5 URISyntaxException	2666
6.576.1.6 URISyntaxException	2666
6.576.1.7 URISyntaxException	2667
6.576.1.8 URISyntaxException	2667
6.576.1.9 ~URISyntaxException	2667
6.576.2 Member Function Documentation	2667
6.576.2.1 clone	2667
6.576.2.2 getIndex	2668
6.576.2.3 getInput	2668
6.576.2.4 getReason	2668
6.577decaf::internal::net::URIType Class Reference	2669
6.577.1 Detailed Description	2671
6.577.2 Constructor & Destructor Documentation	2671
6.577.2.1 URIType	2671
6.577.2.2 URIType	2671
6.577.2.3 ~URIType	2671

6.577.3 Member Function Documentation	2671
6.577.3.1 getAuthority	2671
6.577.3.2 getFragment	2671
6.577.3.3 getHost	2671
6.577.3.4 getPath	2671
6.577.3.5 getPort	2672
6.577.3.6 getQuery	2672
6.577.3.7 getScheme	2672
6.577.3.8 getSchemeSpecificPart	2672
6.577.3.9 getSource	2672
6.577.3.10 getUserInfo	2672
6.577.3.11 isAbsolute	2673
6.577.3.12 isOpaque	2673
6.577.3.13 isServerAuthority	2673
6.577.3.14 isValid	2673
6.577.3.15 setAbsolute	2673
6.577.3.16 setAuthority	2673
6.577.3.17 setFragment	2674
6.577.3.18 setHost	2674
6.577.3.19 setOpaque	2674
6.577.3.20 setPath	2674
6.577.3.21 setPort	2674
6.577.3.22 setQuery	2674
6.577.3.23 setScheme	2675
6.577.3.24 setSchemeSpecificPart	2675
6.577.3.25 setServerAuthority	2675
6.577.3.26 setSource	2675
6.577.3.27 setUserInfo	2675
6.577.3.28 isValid	2675
6.578 decaf::net::URL Class Reference	2677
6.578.1 Detailed Description	2677
6.578.2 Constructor & Destructor Documentation	2678
6.578.2.1 URL	2678
6.578.2.2 URL	2678
6.578.2.3 ~URL	2678
6.579 decaf::net::URLDecoder Class Reference	2679

6.579.1 Constructor & Destructor Documentation	2679
6.579.1.1 ~URLDecoder	2679
6.579.2 Member Function Documentation	2679
6.579.2.1 decode	2679
6.580decaf::net::URLEncoder Class Reference	2680
6.580.1 Constructor & Destructor Documentation	2680
6.580.1.1 ~URLEncoder	2680
6.580.2 Member Function Documentation	2680
6.580.2.1 encode	2680
6.581activemq::util::Usage Class Reference	2681
6.581.1 Constructor & Destructor Documentation	2681
6.581.1.1 ~Usage	2681
6.581.2 Member Function Documentation	2681
6.581.2.1 decreaseUsage	2681
6.581.2.2 enqueueUsage	2681
6.581.2.3 increaseUsage	2682
6.581.2.4 isFull	2682
6.581.2.5 waitForSpace	2682
6.581.2.6 waitForSpace	2682
6.582decaf::io::UTFDataFormatException Class Reference	2683
6.582.1 Detailed Description	2683
6.582.2 Constructor & Destructor Documentation	2683
6.582.2.1 UTFDataFormatException	2683
6.582.2.2 UTFDataFormatException	2684
6.582.2.3 UTFDataFormatException	2684
6.582.2.4 UTFDataFormatException	2684
6.582.2.5 UTFDataFormatException	2684
6.582.2.6 UTFDataFormatException	2684
6.582.2.7 ~UTFDataFormatException	2685
6.582.3 Member Function Documentation	2685
6.582.3.1 clone	2685
6.583decaf::util::UUID Class Reference	2686
6.583.1 Detailed Description	2687
6.583.2 Constructor & Destructor Documentation	2687
6.583.2.1 UUID	2687
6.583.2.2 ~UUID	2688

6.583.3 Member Function Documentation	2688
6.583.3.1 clockSequence	2688
6.583.3.2 compareTo	2688
6.583.3.3 equals	2688
6.583.3.4 fromString	2689
6.583.3.5 getLeastSignificantBits	2689
6.583.3.6 getMostSignificantBits	2689
6.583.3.7 nameUUIDFromBytes	2689
6.583.3.8 nameUUIDFromBytes	2689
6.583.3.9 node	2690
6.583.3.10 operator<	2690
6.583.3.11 operator==	2690
6.583.3.12 randomUUID	2690
6.583.3.13 timestamp	2691
6.583.3.14 toString	2691
6.583.3.15 variant	2691
6.583.3.16 version	2691
6.584 activemq::wireformat::WireFormat Class Reference	2693
6.584.1 Detailed Description	2693
6.584.2 Constructor & Destructor Documentation	2694
6.584.2.1 ~WireFormat	2694
6.584.3 Member Function Documentation	2694
6.584.3.1 createNegotiator	2694
6.584.3.2 getVersion	2694
6.584.3.3 hasNegotiator	2694
6.584.3.4 marshal	2695
6.584.3.5 setVersion	2695
6.584.3.6 unmarshal	2695
6.585 activemq::wireformat::WireFormatFactory Class Reference	2697
6.585.1 Detailed Description	2697
6.585.2 Constructor & Destructor Documentation	2697
6.585.2.1 ~WireFormatFactory	2697
6.585.3 Member Function Documentation	2697
6.585.3.1 createWireFormat	2697
6.586 activemq::commands::WireFormatInfo Class Reference	2699
6.586.1 Constructor & Destructor Documentation	2701

6.586.1.1 WireFormatInfo	2701
6.586.1.2 ~WireFormatInfo	2701
6.586.2 Member Function Documentation	2701
6.586.2.1 afterUnmarshal	2701
6.586.2.2 beforeMarshal	2702
6.586.2.3 cloneDataStructure	2702
6.586.2.4 copyDataStructure	2702
6.586.2.5 equals	2702
6.586.2.6 getCacheSize	2703
6.586.2.7 getDataStructureType	2703
6.586.2.8 getMagic	2703
6.586.2.9 getMarshaledProperties	2703
6.586.2.10 getMaxInactivityDuration	2703
6.586.2.11 getMaxInactivityDurationInitialDelay	2704
6.586.2.12 getProperties	2704
6.586.2.13 getProperties	2704
6.586.2.14 getVersion	2704
6.586.2.15 isCacheEnabled	2704
6.586.2.16 isMarshalAware	2704
6.586.2.17 isSizePrefixDisabled	2705
6.586.2.18 isStackTraceEnabled	2705
6.586.2.19 isTcpNoDelayEnabled	2705
6.586.2.20 isTightEncodingEnabled	2705
6.586.2.21 isValid	2705
6.586.2.22 isWireFormatInfo	2706
6.586.2.23 setCacheEnabled	2706
6.586.2.24 setCacheSize	2706
6.586.2.25 setMagic	2706
6.586.2.26 setMarshaledProperties	2706
6.586.2.27 setMaxInactivityDuration	2706
6.586.2.28 setMaxInactivityDurationInitialDelay	2707
6.586.2.29 setProperties	2707
6.586.2.30 setSizePrefixDisabled	2707
6.586.2.31 setStackTraceEnabled	2707
6.586.2.32 setTcpNoDelayEnabled	2707
6.586.2.33 setTightEncodingEnabled	2707

6.586.2.34	setVersion	2708
6.586.2.35	toString	2708
6.586.2.36	visit	2708
6.586.3	Field Documentation	2708
6.586.3.1	ID_WIREFORMATINFO	2708
6.587	activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller Class Reference	2709
6.587.1	Detailed Description	2709
6.587.2	Constructor & Destructor Documentation	2710
6.587.2.1	WireFormatInfoMarshaller	2710
6.587.2.2	~WireFormatInfoMarshaller	2710
6.587.3	Member Function Documentation	2710
6.587.3.1	createObject	2710
6.587.3.2	getDataStructureType	2710
6.587.3.3	looseMarshal	2710
6.587.3.4	looseUnmarshal	2711
6.587.3.5	tightMarshal1	2711
6.587.3.6	tightMarshal2	2712
6.587.3.7	tightUnmarshal	2712
6.588	activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller Class Reference	2713
6.588.1	Detailed Description	2713
6.588.2	Constructor & Destructor Documentation	2714
6.588.2.1	WireFormatInfoMarshaller	2714
6.588.2.2	~WireFormatInfoMarshaller	2714
6.588.3	Member Function Documentation	2714
6.588.3.1	createObject	2714
6.588.3.2	getDataStructureType	2714
6.588.3.3	looseMarshal	2714
6.588.3.4	looseUnmarshal	2715
6.588.3.5	tightMarshal1	2715
6.588.3.6	tightMarshal2	2716
6.588.3.7	tightUnmarshal	2716
6.589	activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller Class Reference	2717
6.589.1	Detailed Description	2717
6.589.2	Constructor & Destructor Documentation	2718

6.589.2.1 WireFormatInfoMarshaller	2718
6.589.2.2 ~WireFormatInfoMarshaller	2718
6.589.3 Member Function Documentation	2718
6.589.3.1 createObject	2718
6.589.3.2 getDataStructureType	2718
6.589.3.3 looseMarshal	2718
6.589.3.4 looseUnmarshal	2719
6.589.3.5 tightMarshal1	2719
6.589.3.6 tightMarshal2	2720
6.589.3.7 tightUnmarshal	2720
6.590activemq::wireformat::WireFormatNegotiator Class Reference	2721
6.590.1 Detailed Description	2721
6.590.2 Constructor & Destructor Documentation	2721
6.590.2.1 WireFormatNegotiator	2721
6.590.2.2 ~WireFormatNegotiator	2721
6.591activemq::wireformat::WireFormatRegistry Class Reference	2722
6.591.1 Detailed Description	2722
6.591.2 Constructor & Destructor Documentation	2723
6.591.2.1 ~WireFormatRegistry	2723
6.591.3 Member Function Documentation	2723
6.591.3.1 findFactory	2723
6.591.3.2 getInstance	2723
6.591.3.3 getWireFormatNames	2723
6.591.3.4 registerFactory	2724
6.591.3.5 unregisterFactory	2724
6.592decaf::io::Writer Class Reference	2725
6.592.1 Constructor & Destructor Documentation	2725
6.592.1.1 ~Writer	2725
6.592.2 Member Function Documentation	2725
6.592.2.1 getOutputStream	2725
6.592.2.2 setOutputStream	2725
6.592.2.3 write	2725
6.592.2.4 writeByte	2726
6.593decaf::security::auth::x500::X500Principal Class Reference	2727
6.593.1 Constructor & Destructor Documentation	2727
6.593.1.1 ~X500Principal	2727

6.593.2 Member Function Documentation	2727
6.593.2.1 getEncoded	2727
6.593.2.2 getName	2727
6.593.2.3 hashCode	2727
6.594decaf::security::cert::X509Certificate Class Reference	2728
6.594.1 Detailed Description	2728
6.594.2 Constructor & Destructor Documentation	2728
6.594.2.1 ~X509Certificate	2728
6.594.3 Member Function Documentation	2728
6.594.3.1 checkValidity	2728
6.594.3.2 checkValidity	2729
6.594.3.3 getBasicConstraints	2729
6.594.3.4 getIssuerUniqueID	2729
6.594.3.5 getIssuerX500Principal	2729
6.594.3.6 getKeyUsage	2729
6.594.3.7 getNotAfter	2729
6.594.3.8 getNotBefore	2729
6.594.3.9 getSigAlgName	2729
6.594.3.10getSigAlgOID	2730
6.594.3.11getSigAlgParams	2730
6.594.3.12getSignature	2730
6.594.3.13getSubjectUniqueID	2730
6.594.3.14getSubjectX500Principal	2730
6.594.3.15getTBSCertificate	2730
6.594.3.16getVersion	2730
6.595activemq::commands::XATransactionId Class Reference	2731
6.595.1 Member Typedef Documentation	2732
6.595.1.1 COMPARATOR	2732
6.595.2 Constructor & Destructor Documentation	2732
6.595.2.1 XATransactionId	2732
6.595.2.2 XATransactionId	2732
6.595.2.3 ~XATransactionId	2732
6.595.3 Member Function Documentation	2732
6.595.3.1 cloneDataStructure	2732
6.595.3.2 compareTo	2732
6.595.3.3 copyDataStructure	2732

6.595.3.4 equals	2733
6.595.3.5 equals	2733
6.595.3.6 getBranchQualifier	2733
6.595.3.7 getBranchQualifier	2733
6.595.3.8 getDataStructureType	2733
6.595.3.9 getFormatId	2734
6.595.3.10getGlobalTransactionId	2734
6.595.3.11getGlobalTransactionId	2734
6.595.3.12operator<	2734
6.595.3.13operator=	2734
6.595.3.14operator==	2734
6.595.3.15setBranchQualifier	2734
6.595.3.16setFormatId	2734
6.595.3.17setGlobalTransactionId	2734
6.595.3.18oString	2734
6.595.4 Field Documentation	2735
6.595.4.1 branchQualifier	2735
6.595.4.2 formatId	2735
6.595.4.3 globalTransactionId	2735
6.595.4.4 ID_XATRANSACTIONID	2735
6.596activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller Class	
Reference	2736
6.596.1 Detailed Description	2736
6.596.2 Constructor & Destructor Documentation	2737
6.596.2.1 XATransactionIdMarshaller	2737
6.596.2.2 ~XATransactionIdMarshaller	2737
6.596.3 Member Function Documentation	2737
6.596.3.1 createObject	2737
6.596.3.2 getDataStructureType	2737
6.596.3.3 looseMarshal	2737
6.596.3.4 looseUnmarshal	2738
6.596.3.5 tightMarshal1	2738
6.596.3.6 tightMarshal2	2739
6.596.3.7 tightUnmarshal	2739
6.597activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller Class	
Reference	2740
6.597.1 Detailed Description	2740

6.597.2 Constructor & Destructor Documentation	2741
6.597.2.1 XATransactionIdMarshaller	2741
6.597.2.2 ~XATransactionIdMarshaller	2741
6.597.3 Member Function Documentation	2741
6.597.3.1 createObject	2741
6.597.3.2 getDataStructureType	2741
6.597.3.3 looseMarshal	2741
6.597.3.4 looseUnmarshal	2742
6.597.3.5 tightMarshal1	2742
6.597.3.6 tightMarshal2	2743
6.597.3.7 tightUnmarshal	2743
6.598activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller Class Reference	2744
6.598.1 Detailed Description	2744
6.598.2 Constructor & Destructor Documentation	2745
6.598.2.1 XATransactionIdMarshaller	2745
6.598.2.2 ~XATransactionIdMarshaller	2745
6.598.3 Member Function Documentation	2745
6.598.3.1 createObject	2745
6.598.3.2 getDataStructureType	2745
6.598.3.3 looseMarshal	2745
6.598.3.4 looseUnmarshal	2746
6.598.3.5 tightMarshal1	2746
6.598.3.6 tightMarshal2	2747
6.598.3.7 tightUnmarshal	2747
7 File Documentation	2749
7.1 src/main/activemq/cmsutil/CachedConsumer.h File Reference	2749
7.2 src/main/activemq/cmsutil/CachedProducer.h File Reference	2750
7.3 src/main/activemq/cmsutil/CmsAccessor.h File Reference	2751
7.4 src/main/activemq/cmsutil/CmsDestinationAccessor.h File Reference	2752
7.5 src/main/activemq/cmsutil/CmsTemplate.h File Reference	2753
7.6 src/main/activemq/cmsutil/DestinationResolver.h File Reference	2754
7.7 src/main/activemq/cmsutil/DynamicDestinationResolver.h File Reference	2755
7.8 src/main/activemq/cmsutil/MessageCreator.h File Reference	2756
7.9 src/main/activemq/cmsutil/PooledSession.h File Reference	2757
7.10 src/main/activemq/cmsutil/ProducerCallback.h File Reference	2758

7.11	src/main/activemq/cmsutil/ResourceLifecycleManager.h File Reference	2759
7.12	src/main/activemq/cmsutil/SessionCallback.h File Reference	2760
7.13	src/main/activemq/cmsutil/SessionPool.h File Reference	2761
7.14	src/main/activemq/commands/ActiveMQBlobMessage.h File Reference	2762
7.15	src/main/activemq/commands/ActiveMQBytesMessage.h File Reference	2763
7.16	src/main/activemq/commands/ActiveMQDestination.h File Reference	2764
7.17	src/main/activemq/commands/ActiveMQMapMessage.h File Reference	2765
7.18	src/main/activemq/commands/ActiveMQMessage.h File Reference	2766
7.19	src/main/activemq/commands/ActiveMQMessageTemplate.h File Reference	2767
7.20	src/main/activemq/commands/ActiveMQObjectMessage.h File Reference	2768
7.21	src/main/activemq/commands/ActiveMQQueue.h File Reference	2769
7.22	src/main/activemq/commands/ActiveMQStreamMessage.h File Reference	2770
7.23	src/main/activemq/commands/ActiveMQTempDestination.h File Reference	2771
7.24	src/main/activemq/commands/ActiveMQTempQueue.h File Reference	2772
7.25	src/main/activemq/commands/ActiveMQTempTopic.h File Reference	2773
7.26	src/main/activemq/commands/ActiveMQTextMessage.h File Reference	2774
7.27	src/main/activemq/commands/ActiveMQTopic.h File Reference	2775
7.28	src/main/activemq/commands/BaseCommand.h File Reference	2776
7.29	src/main/activemq/commands/BaseDataStructure.h File Reference	2777
7.30	src/main/activemq/commands/BooleanExpression.h File Reference	2778
7.31	src/main/activemq/commands/BrokerError.h File Reference	2779
7.32	src/main/activemq/commands/BrokerId.h File Reference	2780
7.33	src/main/activemq/commands/BrokerInfo.h File Reference	2781
7.34	src/main/activemq/commands/Command.h File Reference	2782
7.35	src/main/activemq/commands/ConnectionControl.h File Reference	2783
7.36	src/main/activemq/commands/ConnectionError.h File Reference	2784
7.37	src/main/activemq/commands/ConnectionId.h File Reference	2785
7.38	src/main/activemq/commands/ConnectionInfo.h File Reference	2786
7.39	src/main/activemq/commands/ConsumerControl.h File Reference	2787
7.40	src/main/activemq/commands/ConsumerId.h File Reference	2788
7.41	src/main/activemq/commands/ConsumerInfo.h File Reference	2789
7.42	src/main/activemq/commands/ControlCommand.h File Reference	2790
7.43	src/main/activemq/commands/DataArrayResponse.h File Reference	2791
7.44	src/main/activemq/commands/DataResponse.h File Reference	2792
7.45	src/main/activemq/commands/DataStructure.h File Reference	2793
7.46	src/main/activemq/commands/DestinationInfo.h File Reference	2794

7.47	src/main/activemq/commands/DiscoveryEvent.h File Reference	2795
7.48	src/main/activemq/commands/ExceptionResponse.h File Reference	2796
7.49	src/main/activemq/commands/FlushCommand.h File Reference	2797
7.50	src/main/activemq/commands/IntegerResponse.h File Reference	2798
7.51	src/main/activemq/commands/JournalQueueAck.h File Reference	2799
7.52	src/main/activemq/commands/JournalTopicAck.h File Reference	2800
7.53	src/main/activemq/commands/JournalTrace.h File Reference	2801
7.54	src/main/activemq/commands/JournalTransaction.h File Reference	2802
7.55	src/main/activemq/commands/KeepAliveInfo.h File Reference	2803
7.56	src/main/activemq/commands/LastPartialCommand.h File Reference	2804
7.57	src/main/activemq/commands/LocalTransactionId.h File Reference	2805
7.58	src/main/activemq/commands/Message.h File Reference	2806
7.59	src/main/cms/Message.h File Reference	2807
7.60	src/main/activemq/commands/MessageAck.h File Reference	2808
7.61	src/main/activemq/commands/MessageDispatch.h File Reference	2809
7.62	src/main/activemq/commands/MessageDispatchNotification.h File Reference . . .	2810
7.63	src/main/activemq/commands/MessageId.h File Reference	2811
7.64	src/main/activemq/commands/MessagePull.h File Reference	2812
7.65	src/main/activemq/commands/NetworkBridgeFilter.h File Reference	2813
7.66	src/main/activemq/commands/PartialCommand.h File Reference	2814
7.67	src/main/activemq/commands/ProducerAck.h File Reference	2815
7.68	src/main/activemq/commands/ProducerId.h File Reference	2816
7.69	src/main/activemq/commands/ProducerInfo.h File Reference	2817
7.70	src/main/activemq/commands/RemoveInfo.h File Reference	2818
7.71	src/main/activemq/commands/RemoveSubscriptionInfo.h File Reference	2819
7.72	src/main/activemq/commands/ReplayCommand.h File Reference	2820
7.73	src/main/activemq/commands/Response.h File Reference	2821
7.74	src/main/activemq/commands/SessionId.h File Reference	2822
7.75	src/main/activemq/commands/SessionInfo.h File Reference	2823
7.76	src/main/activemq/commands/ShutdownInfo.h File Reference	2824
7.77	src/main/activemq/commands/SubscriptionInfo.h File Reference	2825
7.78	src/main/activemq/commands/TransactionId.h File Reference	2826
7.79	src/main/activemq/commands/TransactionInfo.h File Reference	2827
7.80	src/main/activemq/commands/WireFormatInfo.h File Reference	2828
7.81	src/main/activemq/commands/XATransactionId.h File Reference	2829
7.82	src/main/activemq/core/ActiveMQAckHandler.h File Reference	2830

7.83	src/main/activemq/core/ActiveMQConnection.h File Reference	2831
7.84	src/main/activemq/core/ActiveMQConnectionFactory.h File Reference	2832
7.85	src/main/activemq/core/ActiveMQConnectionMetaData.h File Reference	2833
7.86	src/main/activemq/core/ActiveMQConnectionSupport.h File Reference	2834
7.87	src/main/activemq/core/ActiveMQConstants.h File Reference	2835
7.88	src/main/activemq/core/ActiveMQConsumer.h File Reference	2836
7.89	src/main/activemq/core/ActiveMQProducer.h File Reference	2837
7.90	src/main/activemq/core/ActiveMQSession.h File Reference	2838
7.91	src/main/activemq/core/ActiveMQSessionExecutor.h File Reference	2839
7.92	src/main/activemq/core/ActiveMQTransactionContext.h File Reference	2840
7.93	src/main/activemq/core/DispatchData.h File Reference	2841
7.94	src/main/activemq/core/Dispatcher.h File Reference	2842
7.95	src/main/activemq/core/MessageDispatchChannel.h File Reference	2843
7.96	src/main/activemq/core/Synchronization.h File Reference	2844
7.97	src/main/activemq/exceptions/ActiveMQException.h File Reference	2845
7.98	src/main/activemq/exceptions/BrokerException.h File Reference	2846
7.99	src/main/activemq/exceptions/ExceptionDefines.h File Reference	2847
7.99.1	Define Documentation	2847
7.99.1.1	AMQ_CATCH_ALL_THROW_CMSEXCEPTION	2847
7.99.1.2	AMQ_CATCH_EXCEPTION_CONVERT	2848
7.99.1.3	AMQ_CATCH_NOTHROW	2848
7.99.1.4	AMQ_CATCH_RETHROW	2849
7.99.1.5	AMQ_CATCHALL_NOTHROW	2849
7.99.1.6	AMQ_CATCHALL_THROW	2849
7.100	src/main/decaf/lang/exceptions/ExceptionDefines.h File Reference	2850
7.100.1	Define Documentation	2850
7.100.1.1	DECAF_CATCH_EXCEPTION_CONVERT	2850
7.100.1.2	DECAF_CATCH_NOTHROW	2850
7.100.1.3	DECAF_CATCH_RETHROW	2851
7.100.1.4	DECAF_CATCHALL_NOTHROW	2851
7.100.1.5	DECAF_CATCHALL_THROW	2851
7.101	src/main/activemq/io/LoggingInputStream.h File Reference	2853
7.102	src/main/activemq/io/LoggingOutputStream.h File Reference	2854
7.103	src/main/activemq/library/ActiveMQCPP.h File Reference	2855
7.104	src/main/activemq/state/CommandVisitor.h File Reference	2856
7.105	src/main/activemq/state/CommandVisitorAdapter.h File Reference	2857

7.106src/main/activemq/state/ConnectionState.h File Reference	2859
7.107src/main/activemq/state/ConnectionStateTracker.h File Reference	2860
7.108src/main/activemq/state/ConsumerState.h File Reference	2861
7.109src/main/activemq/state/ProducerState.h File Reference	2862
7.110src/main/activemq/state/SessionState.h File Reference	2863
7.111src/main/activemq/state/Tracked.h File Reference	2864
7.112src/main/activemq/state/TransactionState.h File Reference	2865
7.113src/main/activemq/threads/CompositeTask.h File Reference	2866
7.114src/main/activemq/threads/CompositeTaskRunner.h File Reference	2867
7.115src/main/activemq/threads/DedicatedTaskRunner.h File Reference	2868
7.116src/main/activemq/threads/Task.h File Reference	2869
7.117src/main/activemq/threads/TaskRunner.h File Reference	2870
7.118src/main/activemq/transport/AbstractTransportFactory.h File Reference	2871
7.119src/main/activemq/transport/CompositeTransport.h File Reference	2872
7.120src/main/activemq/transport/correlator/FutureResponse.h File Reference	2873
7.121src/main/activemq/transport/correlator/ResponseCorrelator.h File Reference	2874
7.122src/main/activemq/transport/DefaultTransportListener.h File Reference	2875
7.123src/main/activemq/transport/failover/BackupTransport.h File Reference	2876
7.124src/main/activemq/transport/failover/BackupTransportPool.h File Reference	2877
7.125src/main/activemq/transport/failover/CloseTransportsTask.h File Reference	2878
7.126src/main/activemq/transport/failover/FailoverTransport.h File Reference	2879
7.127src/main/activemq/transport/failover/FailoverTransportFactory.h File Reference	2880
7.128src/main/activemq/transport/failover/FailoverTransportListener.h File Reference	2881
7.129src/main/activemq/transport/failover/URIPool.h File Reference	2882
7.130src/main/activemq/transport/IOTransport.h File Reference	2883
7.131src/main/activemq/transport/logging/LoggingTransport.h File Reference	2884
7.132src/main/activemq/transport/mock/InternalCommandListener.h File Reference	2885
7.133src/main/activemq/transport/mock/MockTransport.h File Reference	2886
7.134src/main/activemq/transport/mock/MockTransportFactory.h File Reference	2887
7.135src/main/activemq/transport/mock/ResponseBuilder.h File Reference	2888
7.136src/main/activemq/transport/tcp/TcpTransport.h File Reference	2889
7.137src/main/activemq/transport/tcp/TcpTransportFactory.h File Reference	2890
7.138src/main/activemq/transport/Transport.h File Reference	2891
7.139src/main/activemq/transport/TransportFactory.h File Reference	2892
7.140src/main/activemq/transport/TransportFilter.h File Reference	2893
7.141src/main/activemq/transport/TransportListener.h File Reference	2894

7.142src/main/activemq/transport/TransportRegistry.h File Reference	2895
7.143src/main/activemq/util/ActiveMQProperties.h File Reference	2896
7.144src/main/activemq/util/CompositeData.h File Reference	2897
7.145src/main/activemq/util/Config.h File Reference	2898
7.145.1 Define Documentation	2898
7.145.1.1 AMQCPP_API	2898
7.146src/main/cms/Config.h File Reference	2899
7.146.1 Define Documentation	2899
7.146.1.1 CMS_API	2899
7.147src/main/decaf/util/Config.h File Reference	2900
7.147.1 Define Documentation	2900
7.147.1.1 DECAF_API	2900
7.147.1.2 DECAF_UNUSED	2900
7.148src/main/activemq/util/LongSequenceGenerator.h File Reference	2901
7.149src/main/activemq/util/MemoryUsage.h File Reference	2902
7.150src/main/activemq/util/PrimitiveList.h File Reference	2903
7.151src/main/activemq/util/PrimitiveMap.h File Reference	2904
7.152src/main/activemq/util/PrimitiveValueConverter.h File Reference	2905
7.153src/main/activemq/util/PrimitiveValueNode.h File Reference	2906
7.154src/main/activemq/util/URISupport.h File Reference	2907
7.155src/main/activemq/util/Usage.h File Reference	2908
7.156src/main/activemq/wireformat/MarshalAware.h File Reference	2909
7.157src/main/activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h File Reference	2910
7.158src/main/activemq/wireformat/openwire/marshal/DataStreamMarshaller.h File Reference	2911
7.159src/main/activemq/wireformat/openwire/marshal/PrimitiveTypesMarshaller.h File Reference	2912
7.160src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQBlobMessageMarshaller.h File Reference	2913
7.161src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQBlobMessageMarshaller.h File Reference	2914
7.162src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBlobMessageMarshaller.h File Reference	2915
7.163src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQBytesMessageMarshaller.h File Reference	2916
7.164src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQBytesMessageMarshaller.h File Reference	2917

7.165	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBytesMessageMarshaller.h	
	File Reference	2918
7.166	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQDestinationMarshaller.h	
	File Reference	2919
7.167	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQDestinationMarshaller.h	
	File Reference	2920
7.168	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQDestinationMarshaller.h	
	File Reference	2921
7.169	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQMapMessageMarshaller.h	
	File Reference	2922
7.170	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQMapMessageMarshaller.h	
	File Reference	2923
7.171	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMapMessageMarshaller.h	
	File Reference	2924
7.172	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQMessageMarshaller.h	
	File Reference	2925
7.173	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQMessageMarshaller.h	
	File Reference	2926
7.174	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMessageMarshaller.h	
	File Reference	2927
7.175	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQObjectMessageMarshaller.h	
	File Reference	2928
7.176	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQObjectMessageMarshaller.h	
	File Reference	2929
7.177	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQObjectMessageMarshaller.h	
	File Reference	2930
7.178	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQQueueMarshaller.h	
	File Reference	2931
7.179	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQQueueMarshaller.h	
	File Reference	2932
7.180	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQQueueMarshaller.h	
	File Reference	2933
7.181	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQStreamMessageMarshaller.h	
	File Reference	2934
7.182	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQStreamMessageMarshaller.h	
	File Reference	2935
7.183	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQStreamMessageMarshaller.h	
	File Reference	2936
7.184	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempDestinationMarshaller.h	
	File Reference	2937
7.185	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempDestinationMarshaller.h	
	File Reference	2938
7.186	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempDestinationMarshaller.h	
	File Reference	2939

7.187	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempQueueMarshaller.h	
	File Reference	2940
7.188	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempQueueMarshaller.h	
	File Reference	2941
7.189	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempQueueMarshaller.h	
	File Reference	2942
7.190	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempTopicMarshaller.h	
	File Reference	2943
7.191	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempTopicMarshaller.h	
	File Reference	2944
7.192	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempTopicMarshaller.h	
	File Reference	2945
7.193	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTextMessageMarshaller.h	
	File Reference	2946
7.194	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTextMessageMarshaller.h	
	File Reference	2947
7.195	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTextMessageMarshaller.h	
	File Reference	2948
7.196	src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTopicMarshaller.h	
	File Reference	2949
7.197	src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTopicMarshaller.h	
	File Reference	2950
7.198	src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTopicMarshaller.h	
	File Reference	2951
7.199	src/main/activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h	
	File Reference	2952
7.200	src/main/activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h	
	File Reference	2953
7.201	src/main/activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h	
	File Reference	2954
7.202	src/main/activemq/wireformat/openwire/marshal/v1/BrokerIdMarshaller.h	File
	Reference	2955
7.203	src/main/activemq/wireformat/openwire/marshal/v2/BrokerIdMarshaller.h	File
	Reference	2956
7.204	src/main/activemq/wireformat/openwire/marshal/v3/BrokerIdMarshaller.h	File
	Reference	2957
7.205	src/main/activemq/wireformat/openwire/marshal/v1/BrokerInfoMarshaller.h	File
	Reference	2958
7.206	src/main/activemq/wireformat/openwire/marshal/v2/BrokerInfoMarshaller.h	File
	Reference	2959
7.207	src/main/activemq/wireformat/openwire/marshal/v3/BrokerInfoMarshaller.h	File
	Reference	2960
7.208	src/main/activemq/wireformat/openwire/marshal/v1/ConnectionControlMarshaller.h	
	File Reference	2961

7.209	src/main/activemq/wireformat/openwire/marshal/v2/ConnectionControlMarshaller.h	
	File Reference	2962
7.210	src/main/activemq/wireformat/openwire/marshal/v3/ConnectionControlMarshaller.h	
	File Reference	2963
7.211	src/main/activemq/wireformat/openwire/marshal/v1/ConnectionErrorMarshaller.h	
	File Reference	2964
7.212	src/main/activemq/wireformat/openwire/marshal/v2/ConnectionErrorMarshaller.h	
	File Reference	2965
7.213	src/main/activemq/wireformat/openwire/marshal/v3/ConnectionErrorMarshaller.h	
	File Reference	2966
7.214	src/main/activemq/wireformat/openwire/marshal/v1/ConnectionIdMarshaller.h	
	File Reference	2967
7.215	src/main/activemq/wireformat/openwire/marshal/v2/ConnectionIdMarshaller.h	
	File Reference	2968
7.216	src/main/activemq/wireformat/openwire/marshal/v3/ConnectionIdMarshaller.h	
	File Reference	2969
7.217	src/main/activemq/wireformat/openwire/marshal/v1/ConnectionInfoMarshaller.h	
	File Reference	2970
7.218	src/main/activemq/wireformat/openwire/marshal/v2/ConnectionInfoMarshaller.h	
	File Reference	2971
7.219	src/main/activemq/wireformat/openwire/marshal/v3/ConnectionInfoMarshaller.h	
	File Reference	2972
7.220	src/main/activemq/wireformat/openwire/marshal/v1/ConsumerControlMarshaller.h	
	File Reference	2973
7.221	src/main/activemq/wireformat/openwire/marshal/v2/ConsumerControlMarshaller.h	
	File Reference	2974
7.222	src/main/activemq/wireformat/openwire/marshal/v3/ConsumerControlMarshaller.h	
	File Reference	2975
7.223	src/main/activemq/wireformat/openwire/marshal/v1/ConsumerIdMarshaller.h	
	File Reference	2976
7.224	src/main/activemq/wireformat/openwire/marshal/v2/ConsumerIdMarshaller.h	
	File Reference	2977
7.225	src/main/activemq/wireformat/openwire/marshal/v3/ConsumerIdMarshaller.h	
	File Reference	2978
7.226	src/main/activemq/wireformat/openwire/marshal/v1/ConsumerInfoMarshaller.h	
	File Reference	2979
7.227	src/main/activemq/wireformat/openwire/marshal/v2/ConsumerInfoMarshaller.h	
	File Reference	2980
7.228	src/main/activemq/wireformat/openwire/marshal/v3/ConsumerInfoMarshaller.h	
	File Reference	2981
7.229	src/main/activemq/wireformat/openwire/marshal/v1/ControlCommandMarshaller.h	
	File Reference	2982
7.230	src/main/activemq/wireformat/openwire/marshal/v2/ControlCommandMarshaller.h	
	File Reference	2983

7.231	src/main/activemq/wireformat/openwire/marshal/v3/ControlCommandMarshaller.h	
	File Reference	2984
7.232	src/main/activemq/wireformat/openwire/marshal/v1/DataArrayResponseMarshaller.h	
	File Reference	2985
7.233	src/main/activemq/wireformat/openwire/marshal/v2/DataArrayResponseMarshaller.h	
	File Reference	2986
7.234	src/main/activemq/wireformat/openwire/marshal/v3/DataArrayResponseMarshaller.h	
	File Reference	2987
7.235	src/main/activemq/wireformat/openwire/marshal/v1/DataResponseMarshaller.h	
	File Reference	2988
7.236	src/main/activemq/wireformat/openwire/marshal/v2/DataResponseMarshaller.h	
	File Reference	2989
7.237	src/main/activemq/wireformat/openwire/marshal/v3/DataResponseMarshaller.h	
	File Reference	2990
7.238	src/main/activemq/wireformat/openwire/marshal/v1/DestinationInfoMarshaller.h	
	File Reference	2991
7.239	src/main/activemq/wireformat/openwire/marshal/v2/DestinationInfoMarshaller.h	
	File Reference	2992
7.240	src/main/activemq/wireformat/openwire/marshal/v3/DestinationInfoMarshaller.h	
	File Reference	2993
7.241	src/main/activemq/wireformat/openwire/marshal/v1/DiscoveryEventMarshaller.h	
	File Reference	2994
7.242	src/main/activemq/wireformat/openwire/marshal/v2/DiscoveryEventMarshaller.h	
	File Reference	2995
7.243	src/main/activemq/wireformat/openwire/marshal/v3/DiscoveryEventMarshaller.h	
	File Reference	2996
7.244	src/main/activemq/wireformat/openwire/marshal/v1/ExceptionResponseMarshaller.h	
	File Reference	2997
7.245	src/main/activemq/wireformat/openwire/marshal/v2/ExceptionResponseMarshaller.h	
	File Reference	2998
7.246	src/main/activemq/wireformat/openwire/marshal/v3/ExceptionResponseMarshaller.h	
	File Reference	2999
7.247	src/main/activemq/wireformat/openwire/marshal/v1/FlushCommandMarshaller.h	
	File Reference	3000
7.248	src/main/activemq/wireformat/openwire/marshal/v2/FlushCommandMarshaller.h	
	File Reference	3001
7.249	src/main/activemq/wireformat/openwire/marshal/v3/FlushCommandMarshaller.h	
	File Reference	3002
7.250	src/main/activemq/wireformat/openwire/marshal/v1/IntegerResponseMarshaller.h	
	File Reference	3003
7.251	src/main/activemq/wireformat/openwire/marshal/v2/IntegerResponseMarshaller.h	
	File Reference	3004
7.252	src/main/activemq/wireformat/openwire/marshal/v3/IntegerResponseMarshaller.h	
	File Reference	3005

7.253src/main/activemq/wireformat/openwire/marshal/v1/JournalQueueAckMarshaller.h	
File Reference	3006
7.254src/main/activemq/wireformat/openwire/marshal/v2/JournalQueueAckMarshaller.h	
File Reference	3007
7.255src/main/activemq/wireformat/openwire/marshal/v3/JournalQueueAckMarshaller.h	
File Reference	3008
7.256src/main/activemq/wireformat/openwire/marshal/v1/JournalTopicAckMarshaller.h	
File Reference	3009
7.257src/main/activemq/wireformat/openwire/marshal/v2/JournalTopicAckMarshaller.h	
File Reference	3010
7.258src/main/activemq/wireformat/openwire/marshal/v3/JournalTopicAckMarshaller.h	
File Reference	3011
7.259src/main/activemq/wireformat/openwire/marshal/v1/JournalTraceMarshaller.h	
File Reference	3012
7.260src/main/activemq/wireformat/openwire/marshal/v2/JournalTraceMarshaller.h	
File Reference	3013
7.261src/main/activemq/wireformat/openwire/marshal/v3/JournalTraceMarshaller.h	
File Reference	3014
7.262src/main/activemq/wireformat/openwire/marshal/v1/JournalTransactionMarshaller.h	
File Reference	3015
7.263src/main/activemq/wireformat/openwire/marshal/v2/JournalTransactionMarshaller.h	
File Reference	3016
7.264src/main/activemq/wireformat/openwire/marshal/v3/JournalTransactionMarshaller.h	
File Reference	3017
7.265src/main/activemq/wireformat/openwire/marshal/v1/KeepAliveInfoMarshaller.h	
File Reference	3018
7.266src/main/activemq/wireformat/openwire/marshal/v2/KeepAliveInfoMarshaller.h	
File Reference	3019
7.267src/main/activemq/wireformat/openwire/marshal/v3/KeepAliveInfoMarshaller.h	
File Reference	3020
7.268src/main/activemq/wireformat/openwire/marshal/v1/LastPartialCommandMarshaller.h	
File Reference	3021
7.269src/main/activemq/wireformat/openwire/marshal/v2/LastPartialCommandMarshaller.h	
File Reference	3022
7.270src/main/activemq/wireformat/openwire/marshal/v3/LastPartialCommandMarshaller.h	
File Reference	3023
7.271src/main/activemq/wireformat/openwire/marshal/v1/LocalTransactionIdMarshaller.h	
File Reference	3024
7.272src/main/activemq/wireformat/openwire/marshal/v2/LocalTransactionIdMarshaller.h	
File Reference	3025
7.273src/main/activemq/wireformat/openwire/marshal/v3/LocalTransactionIdMarshaller.h	
File Reference	3026
7.274src/main/activemq/wireformat/openwire/marshal/v1/MarshallerFactory.h	File
Reference	3027

7.275	src/main/activemq/wireformat/openwire/marshal/v2/MarshallerFactory.h	File	
	Reference		3028
7.276	src/main/activemq/wireformat/openwire/marshal/v3/MarshallerFactory.h	File	
	Reference		3029
7.277	src/main/activemq/wireformat/openwire/marshal/v1/MessageAckMarshaller.h		
	File Reference		3030
7.278	src/main/activemq/wireformat/openwire/marshal/v2/MessageAckMarshaller.h		
	File Reference		3031
7.279	src/main/activemq/wireformat/openwire/marshal/v3/MessageAckMarshaller.h		
	File Reference		3032
7.280	src/main/activemq/wireformat/openwire/marshal/v1/MessageDispatchMarshaller.h		
	File Reference		3033
7.281	src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchMarshaller.h		
	File Reference		3034
7.282	src/main/activemq/wireformat/openwire/marshal/v3/MessageDispatchMarshaller.h		
	File Reference		3035
7.283	src/main/activemq/wireformat/openwire/marshal/v1/MessageDispatchNotificationMarshaller.h		
	File Reference		3036
7.284	src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchNotificationMarshaller.h		
	File Reference		3037
7.285	src/main/activemq/wireformat/openwire/marshal/v3/MessageDispatchNotificationMarshaller.h		
	File Reference		3038
7.286	src/main/activemq/wireformat/openwire/marshal/v1/MessageIdMarshaller.h	File	
	Reference		3039
7.287	src/main/activemq/wireformat/openwire/marshal/v2/MessageIdMarshaller.h	File	
	Reference		3040
7.288	src/main/activemq/wireformat/openwire/marshal/v3/MessageIdMarshaller.h	File	
	Reference		3041
7.289	src/main/activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h	File	
	Reference		3042
7.290	src/main/activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h	File	
	Reference		3043
7.291	src/main/activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h	File	
	Reference		3044
7.292	src/main/activemq/wireformat/openwire/marshal/v1/MessagePullMarshaller.h		
	File Reference		3045
7.293	src/main/activemq/wireformat/openwire/marshal/v2/MessagePullMarshaller.h		
	File Reference		3046
7.294	src/main/activemq/wireformat/openwire/marshal/v3/MessagePullMarshaller.h		
	File Reference		3047
7.295	src/main/activemq/wireformat/openwire/marshal/v1/NetworkBridgeFilterMarshaller.h		
	File Reference		3048
7.296	src/main/activemq/wireformat/openwire/marshal/v2/NetworkBridgeFilterMarshaller.h		
	File Reference		3049

7.297	src/main/activemq/wireformat/openwire/marshal/v3/NetworkBridgeFilterMarshaller.h	
	File Reference	3050
7.298	src/main/activemq/wireformat/openwire/marshal/v1/PartialCommandMarshaller.h	
	File Reference	3051
7.299	src/main/activemq/wireformat/openwire/marshal/v2/PartialCommandMarshaller.h	
	File Reference	3052
7.300	src/main/activemq/wireformat/openwire/marshal/v3/PartialCommandMarshaller.h	
	File Reference	3053
7.301	src/main/activemq/wireformat/openwire/marshal/v1/ProducerAckMarshaller.h	
	File Reference	3054
7.302	src/main/activemq/wireformat/openwire/marshal/v2/ProducerAckMarshaller.h	
	File Reference	3055
7.303	src/main/activemq/wireformat/openwire/marshal/v3/ProducerAckMarshaller.h	
	File Reference	3056
7.304	src/main/activemq/wireformat/openwire/marshal/v1/ProducerIdMarshaller.h	
	File Reference	3057
7.305	src/main/activemq/wireformat/openwire/marshal/v2/ProducerIdMarshaller.h	
	File Reference	3058
7.306	src/main/activemq/wireformat/openwire/marshal/v3/ProducerIdMarshaller.h	
	File Reference	3059
7.307	src/main/activemq/wireformat/openwire/marshal/v1/ProducerInfoMarshaller.h	
	File Reference	3060
7.308	src/main/activemq/wireformat/openwire/marshal/v2/ProducerInfoMarshaller.h	
	File Reference	3061
7.309	src/main/activemq/wireformat/openwire/marshal/v3/ProducerInfoMarshaller.h	
	File Reference	3062
7.310	src/main/activemq/wireformat/openwire/marshal/v1/RemoveInfoMarshaller.h	
	File Reference	3063
7.311	src/main/activemq/wireformat/openwire/marshal/v2/RemoveInfoMarshaller.h	
	File Reference	3064
7.312	src/main/activemq/wireformat/openwire/marshal/v3/RemoveInfoMarshaller.h	
	File Reference	3065
7.313	src/main/activemq/wireformat/openwire/marshal/v1/RemoveSubscriptionInfoMarshaller.h	
	File Reference	3066
7.314	src/main/activemq/wireformat/openwire/marshal/v2/RemoveSubscriptionInfoMarshaller.h	
	File Reference	3067
7.315	src/main/activemq/wireformat/openwire/marshal/v3/RemoveSubscriptionInfoMarshaller.h	
	File Reference	3068
7.316	src/main/activemq/wireformat/openwire/marshal/v1/ReplayCommandMarshaller.h	
	File Reference	3069
7.317	src/main/activemq/wireformat/openwire/marshal/v2/ReplayCommandMarshaller.h	
	File Reference	3070
7.318	src/main/activemq/wireformat/openwire/marshal/v3/ReplayCommandMarshaller.h	
	File Reference	3071

7.319	src/main/activemq/wireformat/openwire/marshal/v1/ResponseMarshaller.h	File	
	Reference		3072
7.320	src/main/activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h	File	
	Reference		3073
7.321	src/main/activemq/wireformat/openwire/marshal/v3/ResponseMarshaller.h	File	
	Reference		3074
7.322	src/main/activemq/wireformat/openwire/marshal/v1/SessionIdMarshaller.h	File	
	Reference		3075
7.323	src/main/activemq/wireformat/openwire/marshal/v2/SessionIdMarshaller.h	File	
	Reference		3076
7.324	src/main/activemq/wireformat/openwire/marshal/v3/SessionIdMarshaller.h	File	
	Reference		3077
7.325	src/main/activemq/wireformat/openwire/marshal/v1/SessionInfoMarshaller.h	File	
	File Reference		3078
7.326	src/main/activemq/wireformat/openwire/marshal/v2/SessionInfoMarshaller.h	File	
	File Reference		3079
7.327	src/main/activemq/wireformat/openwire/marshal/v3/SessionInfoMarshaller.h	File	
	File Reference		3080
7.328	src/main/activemq/wireformat/openwire/marshal/v1/ShutdownInfoMarshaller.h	File	
	File Reference		3081
7.329	src/main/activemq/wireformat/openwire/marshal/v2/ShutdownInfoMarshaller.h	File	
	File Reference		3082
7.330	src/main/activemq/wireformat/openwire/marshal/v3/ShutdownInfoMarshaller.h	File	
	File Reference		3083
7.331	src/main/activemq/wireformat/openwire/marshal/v1/SubscriptionInfoMarshaller.h	File	
	File Reference		3084
7.332	src/main/activemq/wireformat/openwire/marshal/v2/SubscriptionInfoMarshaller.h	File	
	File Reference		3085
7.333	src/main/activemq/wireformat/openwire/marshal/v3/SubscriptionInfoMarshaller.h	File	
	File Reference		3086
7.334	src/main/activemq/wireformat/openwire/marshal/v1/TransactionIdMarshaller.h	File	
	File Reference		3087
7.335	src/main/activemq/wireformat/openwire/marshal/v2/TransactionIdMarshaller.h	File	
	File Reference		3088
7.336	src/main/activemq/wireformat/openwire/marshal/v3/TransactionIdMarshaller.h	File	
	File Reference		3089
7.337	src/main/activemq/wireformat/openwire/marshal/v1/TransactionInfoMarshaller.h	File	
	File Reference		3090
7.338	src/main/activemq/wireformat/openwire/marshal/v2/TransactionInfoMarshaller.h	File	
	File Reference		3091
7.339	src/main/activemq/wireformat/openwire/marshal/v3/TransactionInfoMarshaller.h	File	
	File Reference		3092
7.340	src/main/activemq/wireformat/openwire/marshal/v1/WireFormatInfoMarshaller.h	File	
	File Reference		3093

7.341src/main/activemq/wireformat/openwire/marshal/v2/WireFormatInfoMarshaller.h File Reference	3094
7.342src/main/activemq/wireformat/openwire/marshal/v3/WireFormatInfoMarshaller.h File Reference	3095
7.343src/main/activemq/wireformat/openwire/marshal/v1/XATransactionIdMarshaller.h File Reference	3096
7.344src/main/activemq/wireformat/openwire/marshal/v2/XATransactionIdMarshaller.h File Reference	3097
7.345src/main/activemq/wireformat/openwire/marshal/v3/XATransactionIdMarshaller.h File Reference	3098
7.346src/main/activemq/wireformat/openwire/OpenWireFormat.h File Reference	3099
7.347src/main/activemq/wireformat/openwire/OpenWireFormatFactory.h File Reference	3100
7.348src/main/activemq/wireformat/openwire/OpenWireFormatNegotiator.h File Ref- erence	3101
7.349src/main/activemq/wireformat/openwire/OpenWireResponseBuilder.h File Refer- ence	3102
7.350src/main/activemq/wireformat/openwire/utils/BooleanStream.h File Reference . .	3103
7.351src/main/activemq/wireformat/openwire/utils/HexTable.h File Reference	3104
7.352src/main/activemq/wireformat/openwire/utils/MessagePropertyInterceptor.h File Reference	3105
7.353src/main/activemq/wireformat/openwire/utils/OpenwireStringSupport.h File Ref- erence	3106
7.354src/main/activemq/wireformat/stomp/StompCommandConstants.h File Reference	3107
7.355src/main/activemq/wireformat/stomp/StompFrame.h File Reference	3108
7.356src/main/activemq/wireformat/stomp/StompHelper.h File Reference	3109
7.357src/main/activemq/wireformat/stomp/StompWireFormat.h File Reference	3110
7.358src/main/activemq/wireformat/stomp/StompWireFormatFactory.h File Reference	3111
7.359src/main/activemq/wireformat/WireFormat.h File Reference	3112
7.360src/main/activemq/wireformat/WireFormatFactory.h File Reference	3113
7.361src/main/activemq/wireformat/WireFormatNegotiator.h File Reference	3114
7.362src/main/activemq/wireformat/WireFormatRegistry.h File Reference	3115
7.363src/main/cms/BytesMessage.h File Reference	3116
7.364src/main/cms/Closeable.h File Reference	3117
7.365src/main/decaf/io/Closeable.h File Reference	3118
7.366src/main/cms/CMSException.h File Reference	3119
7.367src/main/cms/CMSProperties.h File Reference	3120
7.368src/main/cms/CMSSecurityException.h File Reference	3121
7.369src/main/cms/Connection.h File Reference	3122
7.370src/main/cms/ConnectionFactory.h File Reference	3123

7.371	src/main/cms/ConnectionMetaData.h File Reference	3124
7.372	src/main/cms/DeliveryMode.h File Reference	3125
7.373	src/main/cms/Destination.h File Reference	3126
7.374	src/main/cms/ExceptionListener.h File Reference	3127
7.375	src/main/cms/IllegalStateException.h File Reference	3128
7.376	src/main/decaf/lang/exceptions/IllegalStateException.h File Reference	3129
7.377	src/main/cms/InvalidClientIdException.h File Reference	3130
7.378	src/main/cms/InvalidDestinationException.h File Reference	3131
7.379	src/main/cms/InvalidSelectorException.h File Reference	3132
7.380	src/main/cms/MapMessage.h File Reference	3133
7.381	src/main/cms/MessageConsumer.h File Reference	3134
7.382	src/main/cms/MessageEOFException.h File Reference	3135
7.383	src/main/cms/MessageFormatException.h File Reference	3136
7.384	src/main/cms/MessageListener.h File Reference	3137
7.385	src/main/cms/MessageNotReadableException.h File Reference	3138
7.386	src/main/cms/MessageNotWritableException.h File Reference	3139
7.387	src/main/cms/MessageProducer.h File Reference	3140
7.388	src/main/cms/ObjectMessage.h File Reference	3141
7.389	src/main/cms/Queue.h File Reference	3142
7.390	src/main/decaf/util/Queue.h File Reference	3143
7.391	src/main/cms/QueueBrowser.h File Reference	3144
7.392	src/main/cms/Session.h File Reference	3145
7.393	src/main/cms/Startable.h File Reference	3146
7.394	src/main/cms/Stoppable.h File Reference	3147
7.395	src/main/cms/StreamMessage.h File Reference	3148
7.396	src/main/cms/TemporaryQueue.h File Reference	3149
7.397	src/main/cms/TemporaryTopic.h File Reference	3150
7.398	src/main/cms/TextMessage.h File Reference	3151
7.399	src/main/cms/Topic.h File Reference	3152
7.400	src/main/decaf/internal/AprPool.h File Reference	3153
7.401	src/main/decaf/internal/DecafRuntime.h File Reference	3154
7.402	src/main/decaf/internal/io/StandardErrorOutputStream.h File Reference	3155
7.403	src/main/decaf/internal/io/StandardInputStream.h File Reference	3156
7.404	src/main/decaf/internal/io/StandardOutputStream.h File Reference	3157
7.405	src/main/decaf/internal/net/URIEncoderDecoder.h File Reference	3158
7.406	src/main/decaf/internal/net/URIHelper.h File Reference	3159

7.407src/main/decaf/internal/net/URIType.h File Reference	3160
7.408src/main/decaf/internal/nio/BufferFactory.h File Reference	3161
7.409src/main/decaf/internal/nio/ByteArrayBuffer.h File Reference	3162
7.410src/main/decaf/internal/nio/ByteArrayPerspective.h File Reference	3163
7.411src/main/decaf/internal/nio/CharArrayBuffer.h File Reference	3164
7.412src/main/decaf/internal/nio/DoubleArrayBuffer.h File Reference	3165
7.413src/main/decaf/internal/nio/FloatArrayBuffer.h File Reference	3166
7.414src/main/decaf/internal/nio/IntArrayBuffer.h File Reference	3167
7.415src/main/decaf/internal/nio/LongArrayBuffer.h File Reference	3168
7.416src/main/decaf/internal/nio/ShortArrayBuffer.h File Reference	3169
7.417src/main/decaf/internal/util/ByteArrayAdapter.h File Reference	3170
7.418src/main/decaf/internal/util/HexStringParser.h File Reference	3171
7.419src/main/decaf/io/BlockingByteArrayInputStream.h File Reference	3172
7.420src/main/decaf/io/BufferedInputStream.h File Reference	3173
7.421src/main/decaf/io/BufferedOutputStream.h File Reference	3174
7.422src/main/decaf/io/ByteArrayInputStream.h File Reference	3175
7.423src/main/decaf/io/ByteArrayOutputStream.h File Reference	3176
7.424src/main/decaf/io/DataInputStream.h File Reference	3177
7.425src/main/decaf/io/DataOutputStream.h File Reference	3178
7.426src/main/decaf/io/EOFException.h File Reference	3179
7.427src/main/decaf/io/FilterInputStream.h File Reference	3180
7.428src/main/decaf/io/FilterOutputStream.h File Reference	3181
7.429src/main/decaf/io/InputStream.h File Reference	3182
7.430src/main/decaf/io/InterruptedIOException.h File Reference	3183
7.431src/main/decaf/io/IOException.h File Reference	3184
7.432src/main/decaf/io/OutputStream.h File Reference	3185
7.433src/main/decaf/io/Reader.h File Reference	3186
7.434src/main/decaf/io/UTFDataFormatException.h File Reference	3187
7.435src/main/decaf/io/Writer.h File Reference	3188
7.436src/main/decaf/lang/Appendable.h File Reference	3189
7.437src/main/decaf/lang/Boolean.h File Reference	3190
7.438src/main/decaf/lang/Byte.h File Reference	3191
7.439src/main/decaf/lang/Character.h File Reference	3192
7.440src/main/decaf/lang/CharSequence.h File Reference	3193
7.441src/main/decaf/lang/Comparable.h File Reference	3194
7.442src/main/decaf/lang/Double.h File Reference	3195

7.443src/main/decaf/lang/Exception.h File Reference	3196
7.444src/main/decaf/lang/exceptions/ClassCastException.h File Reference	3197
7.445src/main/decaf/lang/exceptions/IllegalArgumentException.h File Reference	3198
7.446src/main/decaf/lang/exceptions/IllegalMonitorStateException.h File Reference	3199
7.447src/main/decaf/lang/exceptions/IndexOutOfBoundsException.h File Reference	3200
7.448src/main/decaf/lang/exceptions/InterruptedException.h File Reference	3201
7.449src/main/decaf/lang/exceptions/InvalidStateException.h File Reference	3202
7.450src/main/decaf/lang/exceptions/NoSuchElementException.h File Reference	3203
7.451src/main/decaf/lang/exceptions/NullPointerException.h File Reference	3204
7.452src/main/decaf/lang/exceptions/NumberFormatException.h File Reference	3205
7.453src/main/decaf/lang/exceptions/RuntimeException.h File Reference	3206
7.454src/main/decaf/lang/exceptions/UnsupportedOperationException.h File Reference	3207
7.455src/main/decaf/lang/Float.h File Reference	3208
7.456src/main/decaf/lang/Integer.h File Reference	3209
7.457src/main/decaf/lang/Iterable.h File Reference	3210
7.458src/main/decaf/lang/Long.h File Reference	3211
7.459src/main/decaf/lang/Math.h File Reference	3212
7.460src/main/decaf/lang/Number.h File Reference	3213
7.461src/main/decaf/lang/Pointer.h File Reference	3214
7.462src/main/decaf/lang/Runnable.h File Reference	3215
7.463src/main/decaf/lang/Runtime.h File Reference	3216
7.464src/main/decaf/lang/Short.h File Reference	3217
7.465src/main/decaf/lang/System.h File Reference	3218
7.466src/main/decaf/lang/Thread.h File Reference	3219
7.467src/main/decaf/lang/Throwable.h File Reference	3220
7.468src/main/decaf/net/BindException.h File Reference	3221
7.469src/main/decaf/net/BufferedSocket.h File Reference	3222
7.470src/main/decaf/net/ConnectException.h File Reference	3223
7.471src/main/decaf/net/HttpRetryException.h File Reference	3224
7.472src/main/decaf/net/MalformedURLException.h File Reference	3225
7.473src/main/decaf/net/NoRouteToHostException.h File Reference	3226
7.474src/main/decaf/net/PortUnreachableException.h File Reference	3227
7.475src/main/decaf/net/ProtocolException.h File Reference	3228
7.476src/main/decaf/net/ServerSocket.h File Reference	3229
7.477src/main/decaf/net/Socket.h File Reference	3230
7.478src/main/decaf/net/SocketError.h File Reference	3231

7.479src/main/decaf/net/SocketException.h File Reference	3232
7.480src/main/decaf/net/SocketFactory.h File Reference	3233
7.481src/main/decaf/net/SocketInputStream.h File Reference	3234
7.482src/main/decaf/net/SocketOutputStream.h File Reference	3235
7.483src/main/decaf/net/SocketTimeoutException.h File Reference	3236
7.484src/main/decaf/net/TcpSocket.h File Reference	3237
7.485src/main/decaf/net/UnknownHostException.h File Reference	3238
7.486src/main/decaf/net/UnknownServiceException.h File Reference	3239
7.487src/main/decaf/net/URI.h File Reference	3240
7.488src/main/decaf/net/URISyntaxException.h File Reference	3241
7.489src/main/decaf/net/URL.h File Reference	3242
7.490src/main/decaf/net/URLDecoder.h File Reference	3243
7.491src/main/decaf/net/URLEncoder.h File Reference	3244
7.492src/main/decaf/nio/Buffer.h File Reference	3245
7.493src/main/decaf/nio/BufferOverflowException.h File Reference	3246
7.494src/main/decaf/nio/BufferUnderflowException.h File Reference	3247
7.495src/main/decaf/nio/ByteBuffer.h File Reference	3248
7.496src/main/decaf/nio/CharBuffer.h File Reference	3249
7.497src/main/decaf/nio/DoubleBuffer.h File Reference	3250
7.498src/main/decaf/nio/FloatBuffer.h File Reference	3251
7.499src/main/decaf/nio/IntBuffer.h File Reference	3252
7.500src/main/decaf/nio/InvalidMarkException.h File Reference	3253
7.501src/main/decaf/nio/LongBuffer.h File Reference	3254
7.502src/main/decaf/nio/ReadOnlyBufferException.h File Reference	3255
7.503src/main/decaf/nio/ShortBuffer.h File Reference	3256
7.504src/main/decaf/security/auth/x500/X500Principal.h File Reference	3257
7.505src/main/decaf/security/cert/Certificate.h File Reference	3258
7.506src/main/decaf/security/cert/CertificateEncodingException.h File Reference	3259
7.507src/main/decaf/security/cert/CertificateException.h File Reference	3260
7.508src/main/decaf/security/cert/CertificateExpiredException.h File Reference	3261
7.509src/main/decaf/security/cert/CertificateNotYetValidException.h File Reference	3262
7.510src/main/decaf/security/cert/CertificateParsingException.h File Reference	3263
7.511src/main/decaf/security/cert/X509Certificate.h File Reference	3264
7.512src/main/decaf/security/GeneralSecurityException.h File Reference	3265
7.513src/main/decaf/security/InvalidKeyException.h File Reference	3266
7.514src/main/decaf/security/Key.h File Reference	3267

7.515src/main/decaf/security/KeyException.h File Reference	3268
7.516src/main/decaf/security/NoSuchAlgorithmException.h File Reference	3269
7.517src/main/decaf/security/NoSuchProviderException.h File Reference	3270
7.518src/main/decaf/security/Principal.h File Reference	3271
7.519src/main/decaf/security/PublicKey.h File Reference	3272
7.520src/main/decaf/security/SignatureException.h File Reference	3273
7.521src/main/decaf/security_provider/SecurityProvider.h File Reference	3274
7.522src/main/decaf/security_provider/SecurityProviderMap.h File Reference	3275
7.523src/main/decaf/security_provider/SecurityProviderRegistrar.h File Reference	3276
7.524src/main/decaf/security_provider/unix/openssl/OpenSSLX500Principal.h File Reference	3277
7.525src/main/decaf/security_provider/unix/openssl/OpenSSLX509Certificate.h File Reference	3278
7.526src/main/decaf/util/AbstractCollection.h File Reference	3279
7.527src/main/decaf/util/AbstractList.h File Reference	3280
7.528src/main/decaf/util/AbstractMap.h File Reference	3281
7.529src/main/decaf/util/AbstractQueue.h File Reference	3282
7.530src/main/decaf/util/AbstractSequentialList.h File Reference	3283
7.531src/main/decaf/util/AbstractSet.h File Reference	3284
7.532src/main/decaf/util/Collection.h File Reference	3285
7.533src/main/decaf/util/Comparator.h File Reference	3286
7.534src/main/decaf/util/concurrent/atomic/AtomicBoolean.h File Reference	3287
7.535src/main/decaf/util/concurrent/atomic/AtomicInteger.h File Reference	3288
7.536src/main/decaf/util/concurrent/atomic/AtomicReference.h File Reference	3289
7.537src/main/decaf/util/concurrent/BrokenBarrierException.h File Reference	3290
7.538src/main/decaf/util/concurrent/Callable.h File Reference	3291
7.539src/main/decaf/util/concurrent/CancellationException.h File Reference	3292
7.540src/main/decaf/util/concurrent/Concurrent.h File Reference	3293
7.540.1 Define Documentation	3293
7.540.1.1 synchronized	3293
7.540.1.2 WAIT_INFINITE	3293
7.541src/main/decaf/util/concurrent/ConcurrentMap.h File Reference	3294
7.542src/main/decaf/util/concurrent/ConcurrentStlMap.h File Reference	3295
7.543src/main/decaf/util/concurrent/CountDownLatch.h File Reference	3296
7.544src/main/decaf/util/concurrent/Delayed.h File Reference	3297
7.545src/main/decaf/util/concurrent/ExecutionException.h File Reference	3298
7.546src/main/decaf/util/concurrent/Executor.h File Reference	3299

7.547src/main/decaf/util/concurrent/Future.h File Reference	3300
7.548src/main/decaf/util/concurrent/Lock.h File Reference	3301
7.549src/main/decaf/util/concurrent/locks/Lock.h File Reference	3302
7.550src/main/decaf/util/concurrent/locks/Condition.h File Reference	3303
7.551src/main/decaf/util/concurrent/locks/ReadWriteLock.h File Reference	3304
7.552src/main/decaf/util/concurrent/Mutex.h File Reference	3305
7.553src/main/decaf/util/concurrent/PooledThread.h File Reference	3306
7.554src/main/decaf/util/concurrent/PooledThreadListener.h File Reference	3307
7.555src/main/decaf/util/concurrent/RejectedExecutionException.h File Reference . . .	3308
7.556src/main/decaf/util/concurrent/Synchronizable.h File Reference	3309
7.557src/main/decaf/util/concurrent/TaskListener.h File Reference	3310
7.558src/main/decaf/util/concurrent/ThreadFactory.h File Reference	3311
7.559src/main/decaf/util/concurrent/ThreadPool.h File Reference	3312
7.560src/main/decaf/util/concurrent/TimeoutException.h File Reference	3313
7.561src/main/decaf/util/concurrent/TimeUnit.h File Reference	3314
7.562src/main/decaf/util/Date.h File Reference	3315
7.563src/main/decaf/util/Iterator.h File Reference	3316
7.564src/main/decaf/util/List.h File Reference	3317
7.565src/main/decaf/util/ListIterator.h File Reference	3318
7.566src/main/decaf/util/logging/ConsoleHandler.h File Reference	3319
7.567src/main/decaf/util/logging/Filter.h File Reference	3320
7.568src/main/decaf/util/logging/Formatter.h File Reference	3321
7.569src/main/decaf/util/logging/Handler.h File Reference	3322
7.570src/main/decaf/util/logging/Logger.h File Reference	3323
7.571src/main/decaf/util/logging/LoggerCommon.h File Reference	3324
7.572src/main/decaf/util/logging/LoggerDefines.h File Reference	3325
7.572.1 Define Documentation	3325
7.572.1.1 LOGDECAF_DEBUG	3325
7.572.1.2 LOGDECAF_DEBUG_1	3325
7.572.1.3 LOGDECAF_DECLARE	3326
7.572.1.4 LOGDECAF_DECLARE_LOCAL	3326
7.572.1.5 LOGDECAF_ERROR	3326
7.572.1.6 LOGDECAF_FATAL	3326
7.572.1.7 LOGDECAF_INFO	3326
7.572.1.8 LOGDECAF_INITIALIZE	3326
7.572.1.9 LOGDECAF_WARN	3326

7.573	src/main/decaf/util/logging/LoggerHierarchy.h File Reference	3327
7.574	src/main/decaf/util/logging/LogManager.h File Reference	3328
7.575	src/main/decaf/util/logging/LogRecord.h File Reference	3329
7.576	src/main/decaf/util/logging/LogWriter.h File Reference	3330
7.577	src/main/decaf/util/logging/MarkBlockLogger.h File Reference	3331
7.578	src/main/decaf/util/logging/PropertiesChangeListener.h File Reference	3332
7.579	src/main/decaf/util/logging/SimpleFormatter.h File Reference	3333
7.580	src/main/decaf/util/logging/SimpleLogger.h File Reference	3334
7.581	src/main/decaf/util/logging/StreamHandler.h File Reference	3335
7.582	src/main/decaf/util/Map.h File Reference	3336
7.583	src/main/decaf/util/Properties.h File Reference	3337
7.584	src/main/decaf/util/Random.h File Reference	3338
7.585	src/main/decaf/util/Set.h File Reference	3339
7.586	src/main/decaf/util/StlList.h File Reference	3340
7.587	src/main/decaf/util/StlMap.h File Reference	3341
7.588	src/main/decaf/util/StlQueue.h File Reference	3342
7.589	src/main/decaf/util/StlSet.h File Reference	3343
7.590	src/main/decaf/util/StringTokenizer.h File Reference	3344
7.591	src/main/decaf/util/UUID.h File Reference	3345

Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

activemq (Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements)	57
activemq::cmsutil	58
activemq::commands	59
activemq::core	61
activemq::exceptions	62
activemq::io	63
activemq::library	64
activemq::state	65
activemq::threads	66
activemq::transport	67
activemq::transport::correlator	68
activemq::transport::failover	69
activemq::transport::logging	70
activemq::transport::mock	71
activemq::transport::tcp	72
activemq::util	73
activemq::wireformat	74
activemq::wireformat::openwire	75
activemq::wireformat::openwire::marshal	76
activemq::wireformat::openwire::marshal::v1	77
activemq::wireformat::openwire::marshal::v2	81
activemq::wireformat::openwire::marshal::v3	85
activemq::wireformat::openwire::utils	89
activemq::wireformat::stomp	90
cms (Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements)	91
decaf (Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements)	94
decaf::internal	95
decaf::internal::io	96
decaf::internal::net	97
decaf::internal::nio	98

<code>decaf::internal::util</code>	99
<code>decaf::io</code>	100
<code>decaf::lang</code>	102
<code>decaf::lang::exceptions</code>	104
<code>decaf::net</code>	105
<code>decaf::nio</code>	106
<code>decaf::security</code>	107
<code>decaf::security::auth</code>	108
<code>decaf::security::auth::x500</code>	109
<code>decaf::security::cert</code>	110
<code>decaf::security_provider</code>	111
<code>decaf::security_provider::unix</code>	112
<code>decaf::security_provider::unix::openssl</code>	113
<code>decaf::util</code>	114
<code>decaf::util::concurrent</code>	116
<code>decaf::util::concurrent::atomic</code>	118
<code>decaf::util::concurrent::locks</code>	119
<code>decaf::util::logging</code>	120
<code>std</code>	122

Chapter 2

Data Structure Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

activemq::core::ActiveMQAckHandler	145
activemq::core::ActiveMQConsumer	219
activemq::core::ActiveMQConstants	216
activemq::library::ActiveMQCPP	227
activemq::core::ActiveMQTransactionContext	481
decaf::lang::Appendable	484
decaf::nio::CharBuffer	817
decaf::internal::nio::CharArrayBuffer	809
decaf::internal::AprPool	486
decaf::util::concurrent::atomic::AtomicBoolean	488
decaf::lang::AtomicRefCounter	496
decaf::util::concurrent::atomic::AtomicReference< T >	498
binary_function	562
decaf::util::Comparator< Pointer< T, R > >	902
decaf::lang::PointerComparator< T, R >	2018
std::less< decaf::lang::Pointer< T > >	1590
activemq::wireformat::openwire::utils::BooleanStream	580
decaf::nio::Buffer	627
decaf::nio::ByteBuffer	734
decaf::internal::nio::ByteArrayBuffer	694
decaf::nio::CharBuffer	817
decaf::nio::DoubleBuffer	1250
decaf::internal::nio::DoubleArrayBuffer	1242
decaf::nio::FloatBuffer	1346
decaf::internal::nio::FloatArrayBuffer	1339
decaf::nio::IntBuffer	1417
decaf::internal::nio::IntArrayBuffer	1410
decaf::nio::LongBuffer	1674
decaf::internal::nio::LongArrayBuffer	1666
decaf::nio::ShortBuffer	2338
decaf::internal::nio::ShortArrayBuffer	2330

decaf::internal::nio::BufferFactory	648
decaf::internal::util::ByteArrayAdapter	673
decaf::internal::nio::ByteArrayPerspective	729
decaf::util::concurrent::Callable< V >	783
decaf::security::cert::Certificate	787
decaf::security::cert::X509Certificate	2728
decaf::security_provider::unix::openssl::OpenSSLX509Certificate	1964
decaf::lang::CharSequence	833
decaf::nio::CharBuffer	817
cms::Closeable	838
activemq::commands::ActiveMQTempDestination	399
activemq::commands::ActiveMQTempQueue	415
activemq::commands::ActiveMQTempTopic	432
activemq::transport::Transport	2608
activemq::transport::CompositeTransport	911
activemq::transport::failover::FailoverTransport	1296
activemq::transport::IOTransport	1480
activemq::transport::mock::MockTransport	1910
activemq::transport::TransportFilter	2616
activemq::transport::correlator::ResponseCorrelator	2237
activemq::transport::logging::LoggingTransport	1637
activemq::transport::tcp::TcpTransport	2532
activemq::wireformat::WireFormatNegotiator	2721
activemq::wireformat::openwire::OpenWireFormatNegotiator	1984
cms::Connection	941
activemq::core::ActiveMQConnection	190
cms::MessageConsumer	1795
activemq::cmsutil::CachedConsumer	773
activemq::core::ActiveMQConsumer	219
cms::MessageProducer	1878
activemq::cmsutil::CachedProducer	777
activemq::core::ActiveMQProducer	325
cms::QueueBrowser	2158
cms::Session	2270
activemq::cmsutil::PooledSession	2019
activemq::core::ActiveMQSession	353
decaf::io::Closeable	840
decaf::io::InputStream	1406
decaf::internal::io::StandardInputStream	2403
decaf::io::BlockingByteArrayInputStream	566
decaf::io::ByteArrayInputStream	716
decaf::io::FilterInputStream	1315
activemq::io::LoggingInputStream	1633
decaf::io::BufferedInputStream	633
decaf::io::DataInputStream	1116
decaf::net::SocketInputStream	2384
decaf::io::OutputStream	1992
decaf::internal::io::StandardErrorOutputStream	2399
decaf::internal::io::StandardOutputStream	2409
decaf::io::ByteArrayOutputStream	723
decaf::io::FilterOutputStream	1322

activemq::io::LoggingOutputStream	1635
decaf::io::BufferedOutputStream	638
decaf::io::DataOutputStream	1125
decaf::net::SocketOutputStream	2390
decaf::net::Socket	2371
decaf::net::BufferedSocket	641
decaf::net::TcpSocket	2524
decaf::util::logging::Handler	1382
decaf::util::logging::StreamHandler	2472
activemq::cmsutil::CmsAccessor	843
activemq::cmsutil::CmsDestinationAccessor	847
activemq::cmsutil::CmsTemplate	858
cms::CMSException	850
cms::CMSSecurityException	857
cms::IllegalStateException	1399
cms::InvalidClientIdException	1465
cms::InvalidDestinationException	1466
cms::InvalidSelectorException	1473
cms::MessageEOFException	1841
cms::MessageFormatException	1842
cms::MessageNotReadableException	1876
cms::MessageNotWritableException	1877
cms::CMSProperties	853
activemq::util::ActiveMQProperties	332
activemq::state::CommandVisitor	885
activemq::state::CommandVisitorAdapter	893
activemq::state::ConnectionStateTracker	1022
decaf::lang::Comparable< T >	899
decaf::lang::Comparable< bool >	899
decaf::lang::Boolean	573
decaf::lang::Comparable< Boolean >	899
decaf::lang::Boolean	573
decaf::lang::Comparable< BrokerId >	899
activemq::commands::BrokerId	592
decaf::lang::Comparable< Byte >	899
decaf::lang::Byte	664
decaf::lang::Comparable< ByteBuffer >	899
decaf::nio::ByteBuffer	734
decaf::lang::Comparable< char >	899
decaf::lang::Character	801
decaf::lang::Comparable< Character >	899
decaf::lang::Character	801
decaf::lang::Comparable< CharBuffer >	899
decaf::nio::CharBuffer	817
decaf::lang::Comparable< ConnectionId >	899
activemq::commands::ConnectionId	981
decaf::lang::Comparable< ConsumerId >	899
activemq::commands::ConsumerId	1045
decaf::lang::Comparable< Delayed >	899

decaf::util::concurrent::Delayed	1187
decaf::lang::Comparable< Double >	899
decaf::lang::Double	1231
decaf::lang::Comparable< double >	899
decaf::lang::Double	1231
decaf::lang::Comparable< DoubleBuffer >	899
decaf::nio::DoubleBuffer	1250
decaf::lang::Comparable< float >	899
decaf::lang::Float	1328
decaf::lang::Comparable< Float >	899
decaf::lang::Float	1328
decaf::lang::Comparable< FloatBuffer >	899
decaf::nio::FloatBuffer	1346
decaf::lang::Comparable< int >	899
decaf::lang::Integer	1428
decaf::lang::Comparable< IntBuffer >	899
decaf::nio::IntBuffer	1417
decaf::lang::Comparable< Integer >	899
decaf::lang::Integer	1428
decaf::lang::Comparable< LocalTransactionId >	899
activemq::commands::LocalTransactionId	1600
decaf::lang::Comparable< Long >	899
decaf::lang::Long	1652
decaf::lang::Comparable< long long >	899
decaf::lang::Long	1652
decaf::lang::Comparable< LongBuffer >	899
decaf::nio::LongBuffer	1674
decaf::lang::Comparable< MessageId >	899
activemq::commands::MessageId	1843
decaf::lang::Comparable< ProducerId >	899
activemq::commands::ProducerId	2105
decaf::lang::Comparable< SessionId >	899
activemq::commands::SessionId	2284
decaf::lang::Comparable< Short >	899
decaf::lang::Short	2321
decaf::lang::Comparable< short >	899
decaf::lang::Short	2321
decaf::lang::Comparable< ShortBuffer >	899
decaf::nio::ShortBuffer	2338
decaf::lang::Comparable< TimeUnit >	899
decaf::util::concurrent::TimeUnit	2562
decaf::lang::Comparable< TransactionId >	899
activemq::commands::TransactionId	2573
activemq::commands::LocalTransactionId	1600
activemq::commands::XATransactionId	2731
decaf::lang::Comparable< unsigned char >	899
decaf::lang::Byte	664

decaf::lang::Comparable< URI >	899
decaf::net::URI	2638
decaf::lang::Comparable< UUID >	899
decaf::util::UUID	2686
decaf::lang::Comparable< XATransactionId >	899
activemq::commands::XATransactionId	2731
decaf::util::Comparator< T >	902
activemq::util::CompositeData	904
decaf::util::concurrent::locks::Condition	932
cms::ConnectionFactory	978
activemq::core::ActiveMQConnectionFactory	200
cms::ConnectionMetaData	1015
activemq::core::ActiveMQConnectionMetaData	205
activemq::state::ConnectionState	1019
activemq::state::ConsumerState	1082
decaf::util::concurrent::CountDownLatch	1099
activemq::wireformat::openwire::marshal::DataStreamMarshaller	1147
activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller	535
activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller	244
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller	345
activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller	407
activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller	424
activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller	441
activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller	473
activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller	521
activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller	619
activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller	954
activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller	970
activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller	1007
activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller	1037
activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller	1074
activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller	1087
activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller	1203
activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller	1360
activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller	1566
activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller	1791
activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller	1819
activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller	1833
activemq::wireformat::openwire::marshal::v1::MessageMarshaller	1871
activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller	155
activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller	182
activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller	271
activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller	286
activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller	317
activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller	391
activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller	457
activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller	1906
activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller	2094
activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller	2135
activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller	2185
activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller	2206

activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller . . .	2222
activemq::wireformat::openwire::marshal::v1::ResponseMarshaller	2251
activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller	1108
activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller . . .	1139
activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller	1283
activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller . .	1449
activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller	2304
activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller	2356
activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller	2602
activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller	599
activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller	989
activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller	1054
activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller	1221
activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller	1499
activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller	1520
activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller	1535
activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller	1551
activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller	1848
activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller . . .	1935
activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller	2007
activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller .	1582
activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller	2118
activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	2288
activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller	2496
activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller	2577
activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller . .	1612
activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller . . .	2736
activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller	2717
activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller . . .	248
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller	349
activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller	411
activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller	428
activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller	445
activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller	477
activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller	528
activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller	623
activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller . .	958
activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller . . .	974
activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller	1011
activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller . . .	1041
activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller	1078
activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller . . .	1095
activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller	1207
activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller	1368
activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller	1562
activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller	1783
activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller . . .	1811
activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller	1829
activemq::wireformat::openwire::marshal::v2::MessageMarshaller	1861
activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller	159
activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller	186
activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller	275
activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller .	290

activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller	321
activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller	395
activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller	461
activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller	1898
activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller	2098
activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller	2127
activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller	2181
activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller	2198
activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller	2214
activemq::wireformat::openwire::marshal::v2::ResponseMarshaller	2241
activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller	1112
activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller	1143
activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller	1287
activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller	1445
activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller	2308
activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller	2352
activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller	2594
activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller	603
activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller	993
activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller	1058
activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller	1225
activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller	1495
activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller	1512
activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller	1527
activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller	1543
activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller	1856
activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller	1931
activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller	1999
activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller	1586
activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller	2110
activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller	2296
activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller	2504
activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller	2585
activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller	1604
activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller	2744
activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller	2713
activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller	240
activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller	341
activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller	403
activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller	420
activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller	437
activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller	469
activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller	514
activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller	615
activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller	950
activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller	966
activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller	1003
activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller	1033
activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller	1070
activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller	1091
activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller	1199
activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller	1364
activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller	1558

activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller	1787
activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller	1815
activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller	1837
activemq::wireformat::openwire::marshal::v3::MessageMarshaller	1866
activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller	151
activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller	178
activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller	267
activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller .	282
activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller	313
activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller	387
activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller	453
activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller	1902
activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller	2090
activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller	2131
activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller	2189
activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller	2202
activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller	2218
activemq::wireformat::openwire::marshal::v3::ResponseMarshaller	2246
activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller	1104
activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller	1135
activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller	1279
activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller . .	1453
activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller	2312
activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller	2360
activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller	2598
activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller	595
activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller	985
activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller	1050
activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller	1217
activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller	1503
activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller	1516
activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller	1531
activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller	1547
activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller	1852
activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller . . .	1927
activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller	2003
activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller .	1578
activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller	2114
activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller	2292
activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller	2500
activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller	2581
activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller . .	1608
activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller . . .	2740
activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller	2709
decaf::util::Date	1179
cms::DeliveryMode	1188
cms::Destination	1190
cms::Queue	2157
activemq::commands::ActiveMQQueue	337
cms::TemporaryQueue	2538
activemq::commands::ActiveMQTempQueue	415
cms::TemporaryTopic	2540
activemq::commands::ActiveMQTempTopic	432

cms::Topic	2571
activemq::commands::ActiveMQTopic	465
activemq::commands::ActiveMQDestination::DestinationFilter	1193
activemq::cmsutil::DestinationResolver	1211
activemq::cmsutil::DynamicDestinationResolver	1262
activemq::core::DispatchData	1229
activemq::core::Dispatcher	1230
activemq::core::ActiveMQConsumer	219
activemq::core::ActiveMQSession	353
decaf::lang::DYNAMIC_CAST_TOKEN	1261
decaf::util::Map< K, V, COMPARATOR >::Entry	1264
cms::ExceptionListener	1275
decaf::util::concurrent::Executor	1294
decaf::util::logging::Filter	1314
decaf::util::logging::Formatter	1372
decaf::util::logging::SimpleFormatter	2367
decaf::util::concurrent::Future< V >	1374
activemq::transport::correlator::FutureResponse	1377
decaf::security::GeneralSecurityException	1379
decaf::security::cert::CertificateException	793
decaf::security::cert::CertificateEncodingException	791
decaf::security::cert::CertificateExpiredException	795
decaf::security::cert::CertificateNotYetValidException	797
decaf::security::cert::CertificateParsingException	799
decaf::security::KeyException	1572
decaf::security::InvalidKeyException	1467
decaf::security::NoSuchAlgorithmException	1942
decaf::security::NoSuchProviderException	1948
decaf::security::SignatureException	2364
decaf::internal::util::HexStringParser	1386
activemq::wireformat::openwire::utils::HexTable	1388
decaf::lang::Iterable< E >	1487
decaf::util::Collection< E >	871
decaf::util::AbstractCollection< E >	123
decaf::util::List< E >	1591
decaf::util::AbstractList< E >	134
decaf::util::AbstractSequentialList< E >	140
decaf::util::StlList< E >	2416
decaf::util::Queue< E >	2154
decaf::util::AbstractQueue< E >	136
decaf::util::Set< E >	2320
decaf::util::AbstractSet< E >	141
decaf::util::StlSet< E >	2446
decaf::lang::Iterable< PrimitiveValueNode >	1487
decaf::util::Collection< PrimitiveValueNode >	871
decaf::util::AbstractCollection< PrimitiveValueNode >	123
decaf::util::List< PrimitiveValueNode >	1591
decaf::util::StlList< PrimitiveValueNode >	2416
activemq::util::PrimitiveList	2040
decaf::util::Iterator< T >	1489

decaf::util::Iterator< E >	1489
decaf::util::ListIterator< E >	1597
decaf::security::Key	1570
decaf::security::PublicKey	2153
decaf::util::concurrent::Lock	1616
decaf::util::concurrent::locks::Lock	1618
decaf::util::logging::Logger	1623
decaf::util::logging::LoggerHierarchy	1632
decaf::util::logging::LogManager	1640
decaf::util::logging::LogRecord	1645
decaf::util::logging::LogWriter	1650
activemq::util::LongSequenceGenerator	1685
decaf::util::logging::MarkBlockLogger	1711
activemq::wireformat::MarshalAware	1712
activemq::commands::DataStructure	1174
activemq::commands::BaseDataStructure	557
activemq::commands::ActiveMQDestination	229
activemq::commands::ActiveMQQueue	337
activemq::commands::ActiveMQTempDestination	399
activemq::commands::ActiveMQTopic	465
activemq::commands::BooleanExpression	578
activemq::commands::BrokerId	592
activemq::commands::Command	879
activemq::commands::BaseCommand	507
activemq::commands::BrokerError	586
activemq::commands::BrokerInfo	607
activemq::commands::ConnectionControl	945
activemq::commands::ConnectionError	962
activemq::commands::ConnectionInfo	997
activemq::commands::ConsumerControl	1028
activemq::commands::ConsumerInfo	1062
activemq::commands::ControlCommand	1083
activemq::commands::DestinationInfo	1194
activemq::commands::FlushCommand	1357
activemq::commands::KeepAliveInfo	1555
activemq::commands::Message	1737
activemq::commands::ActiveMQMessageTemplate< T >	294
activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >	294
activemq::commands::ActiveMQBytesMessage	163
activemq::commands::ActiveMQMessageTemplate< cms::MapMessage >	294
activemq::commands::ActiveMQMapMessage	255
activemq::commands::ActiveMQMessageTemplate< cms::Message >	294
activemq::commands::ActiveMQBlobMessage	146
activemq::commands::ActiveMQMessage	279
activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >	294
activemq::commands::ActiveMQObjectMessage	310
activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >	294
activemq::commands::ActiveMQStreamMessage	373
activemq::commands::ActiveMQMessageTemplate< cms::TextMessage >	294
activemq::commands::ActiveMQTextMessage	449
activemq::commands::MessageAck	1777

activemq::commands::MessageDispatch	1800
activemq::commands::MessageDispatchNotification	1823
activemq::commands::MessagePull	1893
activemq::commands::ProducerAck	2086
activemq::commands::ProducerInfo	2122
activemq::commands::RemoveInfo	2177
activemq::commands::RemoveSubscriptionInfo	2193
activemq::commands::ReplayCommand	2210
activemq::commands::Response	2231
activemq::commands::DataArrayResponse	1101
activemq::commands::DataResponse	1132
activemq::commands::ExceptionResponse	1276
activemq::commands::IntegerResponse	1442
activemq::state::Tracked	2572
activemq::commands::SessionInfo	2300
activemq::commands::ShutdownInfo	2349
activemq::commands::TransactionInfo	2589
activemq::commands::WireFormatInfo	2699
activemq::commands::ConnectionId	981
activemq::commands::ConsumerId	1045
activemq::commands::DiscoveryEvent	1213
activemq::commands::JournalQueueAck	1491
activemq::commands::JournalTopicAck	1507
activemq::commands::JournalTrace	1524
activemq::commands::JournalTransaction	1539
activemq::commands::MessageId	1843
activemq::commands::NetworkBridgeFilter	1924
activemq::commands::PartialCommand	1995
activemq::commands::LastPartialCommand	1575
activemq::commands::ProducerId	2105
activemq::commands::SessionId	2284
activemq::commands::SubscriptionInfo	2491
activemq::commands::TransactionId	2573
activemq::wireformat::openwire::marshal::v2::MarshallerFactory	1715
activemq::wireformat::openwire::marshal::v3::MarshallerFactory	1716
activemq::wireformat::openwire::marshal::v1::MarshallerFactory	1717
decaf::lang::Math	1718
cms::Message	1753
activemq::commands::ActiveMQMessageTemplate< cms::Message >	294
cms::BytesMessage	759
activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >	294
cms::MapMessage	1701
activemq::commands::ActiveMQMessageTemplate< cms::MapMessage >	294
cms::ObjectMessage	1960
activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >	294
cms::StreamMessage	2476
activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >	294
cms::TextMessage	2542
activemq::commands::ActiveMQMessageTemplate< cms::TextMessage >	294
activemq::cmsutil::MessageCreator	1799
cms::MessageListener	1860
activemq::wireformat::openwire::utils::MessagePropertyInterceptor	1885
decaf::lang::Number	1954

decaf::lang::Byte	664
decaf::lang::Character	801
decaf::lang::Double	1231
decaf::lang::Float	1328
decaf::lang::Integer	1428
decaf::lang::Long	1652
decaf::lang::Short	2321
decaf::util::concurrent::atomic::AtomicInteger	491
decaf::security_provider::unix::openssl::OpenSSLX500Principal	1961
activemq::wireformat::openwire::utils::OpenwireStringSupport	1990
decaf::lang::Pointer< T, REFCOUNTER >	2011
decaf::util::concurrent::PooledThreadListener	2035
decaf::util::concurrent::ThreadPool	2549
activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller	2061
activemq::util::PrimitiveValueNode::PrimitiveValue	2066
activemq::util::PrimitiveValueConverter	2068
activemq::util::PrimitiveValueNode	2070
decaf::security::Principal	2084
decaf::security::auth::x500::X500Principal	2727
activemq::cmsutil::ProducerCallback	2102
activemq::cmsutil::CmsTemplate::SendExecutor	2267
activemq::state::ProducerState	2139
decaf::util::Properties	2140
decaf::util::logging::PropertiesChangeListener	2149
decaf::util::Random	2160
decaf::io::Reader	2165
decaf::util::concurrent::locks::ReadWriteLock	2170
activemq::cmsutil::ResourceLifecycleManager	2228
activemq::transport::mock::ResponseBuilder	2235
activemq::wireformat::openwire::OpenWireResponseBuilder	1988
decaf::lang::Runnable	2256
activemq::threads::CompositeTaskRunner	908
activemq::threads::DedicatedTaskRunner	1183
activemq::transport::IOTransport	1480
decaf::lang::Thread	2544
activemq::transport::mock::InternalCommandListener	1457
decaf::util::concurrent::PooledThread	2032
decaf::lang::Runtime	2257
decaf::internal::DecafRuntime	1182
decaf::security_provider::SecurityProvider	2262
decaf::security_provider::SecurityProviderMap	2263
decaf::security_provider::SecurityProviderRegistrar	2265
decaf::net::ServerSocket	2268
activemq::cmsutil::SessionCallback	2283
activemq::cmsutil::CmsTemplate::ProducerExecutor	2103
activemq::cmsutil::CmsTemplate::ResolveProducerExecutor	2226
activemq::cmsutil::CmsTemplate::ReceiveExecutor	2172
activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor	2227
activemq::cmsutil::SessionPool	2316
activemq::state::SessionState	2318
decaf::util::logging::SimpleLogger	2369

decaf::net::SocketError	2378
decaf::net::SocketFactory	2382
activemq::commands::BrokerError::StackTraceElement	2398
cms::Startable	2413
activemq::transport::Transport	2608
cms::Connection	941
decaf::lang::STATIC_CAST_TOKEN	2414
activemq::core::ActiveMQConstants::StaticInitializer	2415
activemq::wireformat::stomp::StompCommandConstants	2452
activemq::wireformat::stomp::StompFrame	2456
activemq::wireformat::stomp::StompHelper	2461
cms::Stoppable	2471
cms::Connection	941
decaf::util::StringTokenizer	2488
decaf::util::concurrent::Synchronizable	2508
activemq::core::MessageDispatchChannel	1805
decaf::util::Collection< PrimitiveValueNode >	871
decaf::io::InputStream	1406
decaf::io::OutputStream	1992
decaf::util::Collection< E >	871
decaf::util::concurrent::Mutex	1921
decaf::util::Map< K, V, COMPARATOR >	1689
decaf::util::AbstractMap< K, V, COMPARATOR >	135
decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR >	913
decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >	918
decaf::util::StlMap< K, V, COMPARATOR >	2429
decaf::util::StlQueue< T >	2440
decaf::util::Map< std::string, PrimitiveValueNode, std::less< std::string > >	1689
decaf::util::StlMap< std::string, PrimitiveValueNode >	2429
activemq::util::PrimitiveMap	2051
activemq::core::Synchronization	2516
decaf::lang::System	2517
activemq::threads::Task	2520
activemq::core::ActiveMQSessionExecutor	369
activemq::threads::CompositeTask	906
activemq::transport::failover::BackupTransportPool	504
activemq::transport::failover::CloseTransportsTask	841
activemq::transport::failover::FailoverTransport	1296
activemq::threads::CompositeTaskRunner	908
decaf::util::concurrent::TaskListener	2521
activemq::threads::TaskRunner	2522
activemq::threads::CompositeTaskRunner	908
activemq::threads::DedicatedTaskRunner	1183
decaf::util::concurrent::ThreadFactory	2547
decaf::lang::Throwable	2555
decaf::lang::Exception	1268
activemq::exceptions::ActiveMQException	252
activemq::exceptions::BrokerException	590
decaf::io::IOException	1477
decaf::io::EOFException	1265
decaf::io::InterruptedIOException	1462

decaf::net::SocketTimeoutException	2395
decaf::io::UTFDataFormatException	2683
decaf::net::HttpRetryException	1390
decaf::net::MalformedURLException	1686
decaf::net::ProtocolException	2150
decaf::net::SocketException	2379
decaf::net::BindException	563
decaf::net::ConnectException	938
decaf::net::NoRouteToHostException	1939
decaf::net::PortUnreachableException	2037
decaf::net::UnknownHostException	2629
decaf::net::UnknownServiceException	2632
decaf::lang::exceptions::ClassCastException	835
decaf::lang::exceptions::IllegalArgumentException	1393
decaf::lang::exceptions::IllegalMonitorStateException	1396
decaf::lang::exceptions::IllegalStateException	1400
decaf::nio::InvalidMarkException	1470
decaf::lang::exceptions::IndexOutOfBoundsException	1403
decaf::lang::exceptions::InterruptedException	1459
decaf::lang::exceptions::InvalidStateException	1474
decaf::lang::exceptions::NoSuchElementException	1945
decaf::lang::exceptions::NullPointerException	1951
decaf::lang::exceptions::NumberFormatException	1957
decaf::lang::exceptions::RuntimeException	2259
decaf::lang::exceptions::UnsupportedOperationException	2635
decaf::nio::ReadOnlyBufferException	2167
decaf::net::URISyntaxException	2665
decaf::nio::BufferOverflowException	658
decaf::nio::BufferUnderflowException	661
decaf::util::concurrent::BrokenBarrierException	583
decaf::util::concurrent::CancellationException	784
decaf::util::concurrent::ExecutionException	1291
decaf::util::concurrent::RejectedExecutionException	2174
decaf::util::concurrent::TimeoutException	2559
activemq::state::TransactionState	2606
activemq::transport::TransportFactory	2614
activemq::transport::AbstractTransportFactory	143
activemq::transport::failover::FailoverTransportFactory	1308
activemq::transport::mock::MockTransportFactory	1918
activemq::transport::tcp::TcpTransportFactory	2535
activemq::transport::TransportListener	2624
activemq::core::ActiveMQConnectionSupport	209
activemq::core::ActiveMQConnection	190
activemq::transport::DefaultTransportListener	1185
activemq::transport::failover::BackupTransport	501
activemq::transport::mock::InternalCommandListener	1457
activemq::transport::failover::FailoverTransportListener	1311
activemq::transport::TransportFilter	2616
activemq::transport::TransportRegistry	2626
decaf::internal::net::URIEncoderDecoder	2649
decaf::internal::net::URIHelper	2652
activemq::transport::failover::URIPool	2659

activemq::util::URISupport	2662
decaf::internal::net::URIType	2669
decaf::net::URL	2677
decaf::net::URLDecoder	2679
decaf::net::URLEncoder	2680
activemq::util::Usage	2681
activemq::util::MemoryUsage	1733
activemq::wireformat::WireFormat	2693
activemq::wireformat::openwire::OpenWireFormat	1970
activemq::wireformat::stomp::StompWireFormat	2466
activemq::wireformat::WireFormatFactory	2697
activemq::wireformat::openwire::OpenWireFormatFactory	1982
activemq::wireformat::stomp::StompWireFormatFactory	2470
activemq::wireformat::WireFormatRegistry	2722
decaf::io::Writer	2725

Chapter 3

Data Structure Index

3.1 Data Structures

Here are the data structures with brief descriptions:

decaf::util::AbstractCollection< E > (This class provides a skeletal implementation of the Collection (p. 871) interface, to minimize the effort required to implement this interface)	123
decaf::util::AbstractList< E > (This class provides a skeletal implementation of the List (p. 1591) interface to minimize the effort required to implement this interface backed by a "random access" data store (such as an array))	134
decaf::util::AbstractMap< K, V, COMPARATOR > (This class provides a skeletal implementation of the Map (p. 1689) interface, to minimize the effort required to implement this interface)	135
decaf::util::AbstractQueue< E > (This class provides skeletal implementations of some Queue (p. 2154) operations)	136
decaf::util::AbstractSequentialList< E > (This class provides a skeletal implementation of the List (p. 1591) interface to minimize the effort required to implement this interface backed by a "sequential access" data store (such as a linked list))	140
decaf::util::AbstractSet< E > (This class provides a skeletal implementation of the Set (p. 2320) interface to minimize the effort required to implement this interface)	141
activemq::transport::AbstractTransportFactory (Abstract implementation of the TransportFactory (p. 2614) interface, providing the base functionality that's common to most of the TransportFactory (p. 2614) instances)	143
activemq::core::ActiveMQAckHandler (Interface class that is used to give CMS Messages an interface to Ack themselves with)	145
activemq::commands::ActiveMQBlobMessage	146
activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQBlobMessageMarshaller (p. 151))	151
activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQBlobMessageMarshaller (p. 155))	155
activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQBlobMessageMarshaller (p. 159))	159
activemq::commands::ActiveMQBytesMessage	163

activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQBytesMessageMarshaller (p. 178))	178
activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQBytesMessageMarshaller (p. 182))	182
activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQBytesMessageMarshaller (p. 186))	186
activemq::core::ActiveMQConnection (Concrete connection used for all connectors to the ActiveMQ broker)	190
activemq::core::ActiveMQConnectionFactory	200
activemq::core::ActiveMQConnectionMetaData (This class houses all the various settings and information that is used by an instance of an ActiveMQConnection (p. 190) class)	205
activemq::core::ActiveMQConnectionSupport	209
activemq::core::ActiveMQConstants (Class holding constant values for various ActiveMQ specific things Each constant is defined as an enumeration and has functions that convert back and forth between string and enum values)	216
activemq::core::ActiveMQConsumer	219
activemq::library::ActiveMQCPP	227
activemq::commands::ActiveMQDestination	229
activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller (Marshaling code for Open Wire Format for ActiveMQDestinationMarshaller (p. 240))	240
activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller (Marshaling code for Open Wire Format for ActiveMQDestinationMarshaller (p. 244))	244
activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller (Marshaling code for Open Wire Format for ActiveMQDestinationMarshaller (p. 248))	248
activemq::exceptions::ActiveMQException	252
activemq::commands::ActiveMQMapMessage	255
activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQMapMessageMarshaller (p. 267))	267
activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQMapMessageMarshaller (p. 271))	271
activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQMapMessageMarshaller (p. 275))	275
activemq::commands::ActiveMQMessage	279
activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQMessageMarshaller (p. 282))	282
activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQMessageMarshaller (p. 286))	286
activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQMessageMarshaller (p. 290))	290
activemq::commands::ActiveMQMessageTemplate< T >	294
activemq::commands::ActiveMQObjectMessage	310

activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQObjectMessageMarshaller (p. 313))	313
activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQObjectMessageMarshaller (p. 317))	317
activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQObjectMessageMarshaller (p. 321))	321
activemq::core::ActiveMQProducer	325
activemq::util::ActiveMQProperties (Implementation of the CMSProperties interface that delegates to a decaf::util::Properties (p. 2140) object)	332
activemq::commands::ActiveMQQueue	337
activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller (Marshaling code for Open Wire Format for ActiveMQQueueMarshaller (p. 341))	341
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller (Marshaling code for Open Wire Format for ActiveMQQueueMarshaller (p. 345))	345
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller (Marshaling code for Open Wire Format for ActiveMQQueueMarshaller (p. 349))	349
activemq::core::ActiveMQSession	353
activemq::core::ActiveMQSessionExecutor (Delegate dispatcher for a single session)	369
activemq::commands::ActiveMQStreamMessage	373
activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQStreamMessageMarshaller (p. 387))	387
activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQStreamMessageMarshaller (p. 391))	391
activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQStreamMessageMarshaller (p. 395))	395
activemq::commands::ActiveMQTempDestination	399
activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller (Marshaling code for Open Wire Format for ActiveMQTempDestinationMarshaller (p. 403))	403
activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller (Marshaling code for Open Wire Format for ActiveMQTempDestinationMarshaller (p. 407))	407
activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller (Marshaling code for Open Wire Format for ActiveMQTempDestinationMarshaller (p. 411))	411
activemq::commands::ActiveMQTempQueue	415
activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller (Marshaling code for Open Wire Format for ActiveMQTempQueueMarshaller (p. 420))	420
activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller (Marshaling code for Open Wire Format for ActiveMQTempQueueMarshaller (p. 424))	424
activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller (Marshaling code for Open Wire Format for ActiveMQTempQueueMarshaller (p. 428))	428

activemq::commands::ActiveMQTempTopic	432
activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller (Marshaling code for Open Wire Format for ActiveMQTempTopicMarshaller (p. 437))	437
activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller (Marshaling code for Open Wire Format for ActiveMQTempTopicMarshaller (p. 441))	441
activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller (Marshaling code for Open Wire Format for ActiveMQTempTopicMarshaller (p. 445))	445
activemq::commands::ActiveMQTextMessage	449
activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQTextMessageMarshaller (p. 453))	453
activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQTextMessageMarshaller (p. 457))	457
activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller (Marshaling code for Open Wire Format for ActiveMQTextMessageMarshaller (p. 461))	461
activemq::commands::ActiveMQTopic	465
activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller (Marshaling code for Open Wire Format for ActiveMQTopicMarshaller (p. 469))	469
activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller (Marshaling code for Open Wire Format for ActiveMQTopicMarshaller (p. 473))	473
activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller (Marshaling code for Open Wire Format for ActiveMQTopicMarshaller (p. 477))	477
activemq::core::ActiveMQTransactionContext (Transaction Management class, hold messages that are to be redelivered upon a request to roll-back)	481
decaf::lang::Appendable	484
decaf::internal::AprPool (Wraps an APR pool object so that classes in decaf (p. 94) can create a static member for use in static methods where apr function calls that need a pool are made)	486
decaf::util::concurrent::atomic::AtomicBoolean (A boolean value that may be updated atomically)	488
decaf::util::concurrent::atomic::AtomicInteger (An int value that may be updated atomically)	491
decaf::lang::AtomicRefCounter	496
decaf::util::concurrent::atomic::AtomicReference< T > (An Pointer reference that may be updated atomically)	498
activemq::transport::failover::BackupTransport	501
activemq::transport::failover::BackupTransportPool	504
activemq::commands::BaseCommand	507
activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller (Marshaling code for Open Wire Format for BaseCommandMarshaller (p. 514))	514
activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller (Marshaling code for Open Wire Format for BaseCommandMarshaller (p. 521))	521

activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller (Marshaling code for Open Wire Format for BaseCommandMarshaller (p. 528))	528
activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller (Base class for all Marshallers that marshal (p. 76) DataStructures to and from the wire using the OpenWire protocol)	535
activemq::commands::BaseDataStructure	557
binary_function	562
decaf::net::BindException	563
decaf::io::BlockingByteArrayInputStream (This is a blocking version of a byte buffer stream)	566
decaf::lang::Boolean	573
activemq::commands::BooleanExpression	578
activemq::wireformat::openwire::utils::BooleanStream (Manages the writing and reading of boolean data streams to and from a data source such as a DataInput- Stream or DataOutputStream)	580
decaf::util::concurrent::BrokenBarrierException	583
activemq::commands::BrokerError (This class represents an Exception sent from the Broker)	586
activemq::exceptions::BrokerException	590
activemq::commands::BrokerId	592
activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller (Marshaling code for Open Wire Format for BrokerIdMarshaller (p. 595))	595
activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller (Marshaling code for Open Wire Format for BrokerIdMarshaller (p. 599))	599
activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller (Marshaling code for Open Wire Format for BrokerIdMarshaller (p. 603))	603
activemq::commands::BrokerInfo	607
activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller (Marshal- ing code for Open Wire Format for BrokerInfoMarshaller (p. 615))	615
activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller (Marshal- ing code for Open Wire Format for BrokerInfoMarshaller (p. 619))	619
activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller (Marshal- ing code for Open Wire Format for BrokerInfoMarshaller (p. 623))	623
decaf::nio::Buffer (A container for data of a specific primitive type)	627
decaf::io::BufferedInputStream (A wrapper around another input stream that per- forms a buffered read, where it reads more data than it needs in order to reduce the number of io (p. 100) operations on the input stream)	633
decaf::io::BufferedOutputStream (Wrapper around another output stream that buffers output before writing to the target output stream)	638
decaf::net::BufferedSocket (Buffered Socket (p. 2371) class that wraps a Socket (p. 2371) derived object and provides Buffered input and Output Streams to improve the efficiency of the reads and writes)	641
decaf::internal::nio::BufferFactory (Factory class used by static methods in the de- caf::nio (p. 106) package to create the various default version of the NIO inter- faces)	648
decaf::nio::BufferOverflowException	658
decaf::nio::BufferUnderflowException	661
decaf::lang::Byte	664
decaf::internal::util::ByteArrayAdapter (This class adapts primitive type arrays to a base byte array so that the classes can inter-operate on the same base byte array without copying data)	673
decaf::internal::nio::ByteArrayBuffer (This class defines six categories of operations upon byte buffers:)	694

decaf::io::ByteArrayInputStream (Simple implementation of InputStream (p.1406) that wraps around an STL Vector <code>std::vector<unsigned char></code>) . . .	716
decaf::io::ByteArrayOutputStream	723
decaf::internal::nio::ByteArrayPerspective (This class extends ByteArray to create a reference counted byte array that can be held and used by several different ByteBuffers and allow them to know on destruction whose job it is to delete the perspective)	729
decaf::nio::ByteBuffer (This class defines six categories of operations upon byte buffers:)	734
cms::BytesMessage (A BytesMessage (p.759) object is used to send a message containing a stream of unsigned bytes)	759
activemq::cmsutil::CachedConsumer (A cached message consumer contained within a pooled session)	773
activemq::cmsutil::CachedProducer (A cached message producer contained within a pooled session)	777
decaf::util::concurrent::Callable< V >	783
decaf::util::concurrent::CancellationException	784
decaf::security::cert::Certificate (Base interface for all identity certificates)	787
decaf::security::cert::CertificateEncodingException	791
decaf::security::cert::CertificateException	793
decaf::security::cert::CertificateExpiredException	795
decaf::security::cert::CertificateNotYetValidException	797
decaf::security::cert::CertificateParsingException	799
decaf::lang::Character	801
decaf::internal::nio::CharArrayBuffer	809
decaf::nio::CharBuffer (This class defines four categories of operations upon character buffers:)	817
decaf::lang::CharSequence (A CharSequence (p.833) is a readable sequence of char values)	833
decaf::lang::exceptions::ClassCastException	835
cms::Closeable (Interface for a class that implements the close method)	838
decaf::io::Closeable (Interface for a class that implements the close method)	840
activemq::transport::failover::CloseTransportsTask	841
activemq::cmsutil::CmsAccessor (Base class for activemq.cmsutil.CmsTemplate (p.858) and other CMS-accessing gateway helpers, defining common properties such as the CMS cms.ConnectionFactory (p.978) to operate on)	843
activemq::cmsutil::CmsDestinationAccessor (Extends the CmsAccessor (p.843) to add support for resolving destination names)	847
cms::CMSException (CMS API Exception that is the base for all exceptions thrown from CMS classes)	850
cms::CMSProperties (Interface for a Java-like properties object)	853
cms::CMSSecurityException (This exception must be thrown when a provider rejects a user name/password submitted by a client)	857
activemq::cmsutil::CmsTemplate (CmsTemplate (p.858) simplifies performing synchronous CMS operations)	858
decaf::util::Collection< E > (The root interface in the collection hierarchy)	871
activemq::commands::Command	879
activemq::state::CommandVisitor (Interface for an Object that can visit the various Command Objects that are sent from and to this client)	885
activemq::state::CommandVisitorAdapter (Default Implementation of a CommandVisitor (p.885) that returns NULL for all calls)	893
decaf::lang::Comparable< T > (This interface imposes a total ordering on the objects of each class that implements it)	899

decaf::util::Comparator< T > (A comparison function, which imposes a total ordering on some collection of objects)	902
activemq::util::CompositeData (Represents a Composite URI)	904
activemq::threads::CompositeTask (Represents a single task that can be part of a set of Tasks that are contained in a CompositeTaskRunner (p. 908))	906
activemq::threads::CompositeTaskRunner (A Task (p. 2520) Runner that can contain one or more CompositeTasks that are each checked for pending work and run if any is present in the order that the tasks were added)	908
activemq::transport::CompositeTransport (A Composite Transport (p. 2608) is a Transport (p. 2608) implementation that is composed of several Transports)	911
decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR > (Interface for a Map (p. 1689) type that provides additional atomic (p. 118) putIfAbsent , remove , and replace methods alongside the already available Map (p. 1689) interface)	913
decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > (Map (p. 1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map)	918
decaf::util::concurrent::locks::Condition (Condition (p. 932) factors out the Mutex (p. 1921) monitor methods (wait , notify and notifyAll) into distinct objects to give the effect of having multiple wait-sets per object, by combining them with the use of arbitrary Lock (p. 1618) implementations)	932
decaf::net::ConnectException	938
cms::Connection (The client's connection to its provider)	941
activemq::commands::ConnectionControl	945
activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller (Marshaling code for Open Wire Format for ConnectionControlMarshaller (p. 950))	950
activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller (Marshaling code for Open Wire Format for ConnectionControlMarshaller (p. 954))	954
activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller (Marshaling code for Open Wire Format for ConnectionControlMarshaller (p. 958))	958
activemq::commands::ConnectionError	962
activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller (Marshaling code for Open Wire Format for ConnectionErrorMarshaller (p. 966))	966
activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller (Marshaling code for Open Wire Format for ConnectionErrorMarshaller (p. 970))	970
activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller (Marshaling code for Open Wire Format for ConnectionErrorMarshaller (p. 974))	974
cms::ConnectionFactory (Defines the interface for a factory that creates connection objects, the Connection (p. 941) objects returned implement the CMS Connection (p. 941) interface and hide the CMS Provider specific implementation details behind that interface)	978
activemq::commands::ConnectionId	981
activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller (Marshaling code for Open Wire Format for ConnectionIdMarshaller (p. 985))	985
activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller (Marshaling code for Open Wire Format for ConnectionIdMarshaller (p. 989))	989
activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller (Marshaling code for Open Wire Format for ConnectionIdMarshaller (p. 993))	993

activemq::commands::ConnectionInfo	997
activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller (Marshaling code for Open Wire Format for ConnectionInfoMarshaller (p. 1003))	1003
activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller (Marshaling code for Open Wire Format for ConnectionInfoMarshaller (p. 1007))	1007
activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller (Marshaling code for Open Wire Format for ConnectionInfoMarshaller (p. 1011))	1011
cms::ConnectionMetaData (A ConnectionMetaData (p. 1015) object provides in- formation describing the Connection (p. 941) object)	1015
activemq::state::ConnectionState	1019
activemq::state::ConnectionStateTracker	1022
activemq::commands::ConsumerControl	1028
activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller (Marshaling code for Open Wire Format for ConsumerControlMarshaller (p. 1033))	1033
activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller (Marshaling code for Open Wire Format for ConsumerControlMarshaller (p. 1037))	1037
activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (Marshaling code for Open Wire Format for ConsumerControlMarshaller (p. 1041))	1041
activemq::commands::ConsumerId	1045
activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller (Mar- shaling code for Open Wire Format for ConsumerIdMarshaller (p. 1050))	1050
activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller (Mar- shaling code for Open Wire Format for ConsumerIdMarshaller (p. 1054))	1054
activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller (Mar- shaling code for Open Wire Format for ConsumerIdMarshaller (p. 1058))	1058
activemq::commands::ConsumerInfo	1062
activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller (Mar- shaling code for Open Wire Format for ConsumerInfoMarshaller (p. 1070))	1070
activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller (Mar- shaling code for Open Wire Format for ConsumerInfoMarshaller (p. 1074))	1074
activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (Mar- shaling code for Open Wire Format for ConsumerInfoMarshaller (p. 1078))	1078
activemq::state::ConsumerState	1082
activemq::commands::ControlCommand	1083
activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller (Marshaling code for Open Wire Format for ControlCommandMarshaller (p. 1087))	1087
activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller (Marshaling code for Open Wire Format for ControlCommandMarshaller (p. 1091))	1091

activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (Marshaling code for Open Wire Format for ControlCommandMarshaller (p. 1095))	1095
decaf::util::concurrent::CountDownLatch	1099
activemq::commands::DataArrayResponse	1101
activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller (Marshaling code for Open Wire Format for DataArrayResponseMarshaller (p. 1104))	1104
activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller (Marshaling code for Open Wire Format for DataArrayResponseMarshaller (p. 1108))	1108
activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (Marshaling code for Open Wire Format for DataArrayResponseMarshaller (p. 1112))	1112
decaf::io::DataInputStream (A data input stream lets an application read primitive Java data types from an underlying input stream in a machine-independent way)	1116
decaf::io::DataOutputStream (A data output stream lets an application write prim- itive Java data types to an output stream in a portable way)	1125
activemq::commands::DataResponse	1132
activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (Mar- shaling code for Open Wire Format for DataResponseMarshaller (p. 1135))	1135
activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller (Mar- shaling code for Open Wire Format for DataResponseMarshaller (p. 1139))	1139
activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (Mar- shaling code for Open Wire Format for DataResponseMarshaller (p. 1143))	1143
activemq::wireformat::openwire::marshal::DataStreamMarshaller (Base class for all classes that marshal (p. 76) commands (p. 59) for Openwire)	1147
activemq::commands::DataStructure	1174
decaf::util::Date (Wrapper class around a time value in milliseconds)	1179
decaf::internal::DecafRuntime (Handles APR initialization and termination)	1182
activemq::threads::DedicatedTaskRunner	1183
activemq::transport::DefaultTransportListener	1185
decaf::util::concurrent::Delayed (A mix-in style interface for marking objects that should be acted upon after a given delay)	1187
cms::DeliveryMode (This is an Abstract class whose purpose is to provide a container for the delivery mode enumeration for CMS messages)	1188
cms::Destination (A Destination (p. 1190) object encapsulates a provider-specific ad- dress)	1190
activemq::commands::ActiveMQDestination::DestinationFilter	1193
activemq::commands::DestinationInfo	1194
activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (Marshaling code for Open Wire Format for DestinationInfoMarshaller (p. 1199))	1199
activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller (Marshaling code for Open Wire Format for DestinationInfoMarshaller (p. 1203))	1203
activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (Marshaling code for Open Wire Format for DestinationInfoMarshaller (p. 1207))	1207
activemq::cmsutil::DestinationResolver (Resolves a CMS destination name to a Destination)	1211

activemq::commands::DiscoveryEvent	1213
activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller (Marshaling code for Open Wire Format for DiscoveryEventMarshaller (p. 1217))	1217
activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller (Marshaling code for Open Wire Format for DiscoveryEventMarshaller (p. 1221))	1221
activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller (Marshaling code for Open Wire Format for DiscoveryEventMarshaller (p. 1225))	1225
activemq::core::DispatchData (Simple POJO that contains the information necessary to route a message to a specified consumer)	1229
activemq::core::Dispatcher (Interface for an object responsible for dispatching messages to consumers)	1230
decaf::lang::Double	1231
decaf::internal::nio::DoubleArrayBuffer	1242
decaf::nio::DoubleBuffer (This class defines four categories of operations upon double buffers:)	1250
decaf::lang::DYNAMIC_CAST_TOKEN	1261
activemq::cmsutil::DynamicDestinationResolver (Resolves a CMS destination name to a Destination)	1262
decaf::util::Map< K, V, COMPARATOR >::Entry	1264
decaf::io::EOFException	1265
decaf::lang::Exception	1268
cms::ExceptionListener (If a CMS provider detects a serious problem, it notifies the client application through an ExceptionListener (p. 1275) that is registered with the Connection (p. 941))	1275
activemq::commands::ExceptionResponse	1276
activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller (Marshaling code for Open Wire Format for ExceptionResponseMarshaller (p. 1279))	1279
activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller (Marshaling code for Open Wire Format for ExceptionResponseMarshaller (p. 1283))	1283
activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (Marshaling code for Open Wire Format for ExceptionResponseMarshaller (p. 1287))	1287
decaf::util::concurrent::ExecutionException	1291
decaf::util::concurrent::Executor (An object that executes submitted decaf.lang Runnable (p. 2256) tasks)	1294
activemq::transport::failover::FailoverTransport	1296
activemq::transport::failover::FailoverTransportFactory (Creates an instance of a FailoverTransport (p. 1296))	1308
activemq::transport::failover::FailoverTransportListener (Utility class used by the Transport (p. 2608) to perform the work of responding to events from the active Transport (p. 2608))	1311
decaf::util::logging::Filter (A Filter (p. 1314) can be used to provide fine grain control over what is logged, beyond the control provided by log levels)	1314
decaf::io::FilterInputStream (A FilterInputStream (p. 1315) contains some other input stream, which it uses as its basic source of data, possibly transforming the data along the way or providing additional functionality)	1315
decaf::io::FilterOutputStream (This class is the superclass of all classes that filter output streams)	1322
decaf::lang::Float	1328

decaf::internal::nio::FloatArrayBuffer	1339
decaf::nio::FloatBuffer (This class defines four categories of operations upon float buffers:)	1346
activemq::commands::FlushCommand	1357
activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller (Marshaling code for Open Wire Format for FlushCommandMarshaller (p. 1360))	1360
activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (Marshaling code for Open Wire Format for FlushCommandMarshaller (p. 1364))	1364
activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (Marshaling code for Open Wire Format for FlushCommandMarshaller (p. 1368))	1368
decaf::util::logging::Formatter (A Formatter (p. 1372) provides support for formatting LogRecords)	1372
decaf::util::concurrent::Future< V > (A Future (p. 1374) represents the result of an asynchronous computation)	1374
activemq::transport::correlator::FutureResponse (A container that holds a response object)	1377
decaf::security::GeneralSecurityException	1379
decaf::util::logging::Handler (A Handler (p. 1382) object takes log messages from a Logger (p. 1623) and exports them)	1382
decaf::internal::util::HexStringParser	1386
activemq::wireformat::openwire::utils::HexTable (Maps hexadecimal strings to the value of an index into the table, i.e)	1388
decaf::net::HttpRetryException	1390
decaf::lang::exceptions::IllegalArgumentException	1393
decaf::lang::exceptions::IllegalMonitorStateException	1396
cms::IllegalStateException (This exception is thrown when a method is invoked at an illegal or inappropriate time or if the provider is not in an appropriate state for the requested operation)	1399
decaf::lang::exceptions::IllegalStateException	1400
decaf::lang::exceptions::IndexOutOfBoundsException	1403
decaf::io::InputStream (Base interface for an input stream)	1406
decaf::internal::nio::IntArrayBuffer	1410
decaf::nio::IntBuffer (This class defines four categories of operations upon int buffers:)	1417
decaf::lang::Integer	1428
activemq::commands::IntegerResponse	1442
activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (Marshaling code for Open Wire Format for IntegerResponseMarshaller (p. 1445))	1445
activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller (Marshaling code for Open Wire Format for IntegerResponseMarshaller (p. 1449))	1449
activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (Marshaling code for Open Wire Format for IntegerResponseMarshaller (p. 1453))	1453
activemq::transport::mock::InternalCommandListener (Listens for Commands sent from the MockTransport (p. 1910))	1457
decaf::lang::exceptions::InterruptedException	1459
decaf::io::InterruptedException	1462
cms::InvalidClientIdException (This exception must be thrown when a client attempts to set a connection's client ID to a value that is rejected by a provider)	1465

cms::InvalidDestinationException (This exception must be thrown when a destination either is not understood by a provider or is no longer valid)	1466
decaf::security::InvalidKeyException	1467
decaf::nio::InvalidMarkException	1470
cms::InvalidSelectorException (This exception must be thrown when a CMS client attempts to give a provider a message selector with invalid syntax)	1473
decaf::lang::exceptions::InvalidStateException	1474
decaf::io::IOException	1477
activemq::transport::IOTransport (Implementation of the Transport (p.2608) interface that performs marshaling of commands (p.59) to IO streams)	1480
decaf::lang::Iterable< E > (Implementing this interface allows an object to be cast to an Iterable (p.1487) type for generic collections API calls)	1487
decaf::util::Iterator< T > (Defines an object that can be used to iterate over the elements of a collection)	1489
activemq::commands::JournalQueueAck	1491
activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller (Marshaling code for Open Wire Format for JournalQueueAckMarshaller (p.1495))	1495
activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller (Marshaling code for Open Wire Format for JournalQueueAckMarshaller (p.1499))	1499
activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller (Marshaling code for Open Wire Format for JournalQueueAckMarshaller (p.1503))	1503
activemq::commands::JournalTopicAck	1507
activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller (Marshaling code for Open Wire Format for JournalTopicAckMarshaller (p.1512))	1512
activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller (Marshaling code for Open Wire Format for JournalTopicAckMarshaller (p.1516))	1516
activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller (Marshaling code for Open Wire Format for JournalTopicAckMarshaller (p.1520))	1520
activemq::commands::JournalTrace	1524
activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller (Marshaling code for Open Wire Format for JournalTraceMarshaller (p.1527))	1527
activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller (Marshaling code for Open Wire Format for JournalTraceMarshaller (p.1531))	1531
activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller (Marshaling code for Open Wire Format for JournalTraceMarshaller (p.1535))	1535
activemq::commands::JournalTransaction	1539
activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller (Marshaling code for Open Wire Format for JournalTransactionMarshaller (p.1543))	1543
activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller (Marshaling code for Open Wire Format for JournalTransactionMarshaller (p.1547))	1547
activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller (Marshaling code for Open Wire Format for JournalTransactionMarshaller (p.1551))	1551

activemq::commands::KeepAliveInfo	1555
activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (Marshaling code for Open Wire Format for KeepAliveInfoMarshaller (p. 1558))	1558
activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (Marshaling code for Open Wire Format for KeepAliveInfoMarshaller (p. 1562))	1562
activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller (Marshaling code for Open Wire Format for KeepAliveInfoMarshaller (p. 1566))	1566
decaf::security::Key (The Key (p. 1570) interface is the top-level interface for all keys)	1570
decaf::security::KeyException	1572
activemq::commands::LastPartialCommand	1575
activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller (Marshaling code for Open Wire Format for LastPartialCommandMarshaller (p. 1578))	1578
activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller (Marshaling code for Open Wire Format for LastPartialCommandMarshaller (p. 1582))	1582
activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller (Marshaling code for Open Wire Format for LastPartialCommandMarshaller (p. 1586))	1586
std::less< decaf::lang::Pointer< T > > (An override of the less function object so that the Pointer objects can be stored in STL Maps, etc)	1590
decaf::util::List< E > (An ordered collection (also known as a sequence))	1591
decaf::util::ListIterator< E > (An iterator for lists that allows the programmer to traverse the list in either direction, modify the list during iteration, and obtain the iterator's current position in the list)	1597
activemq::commands::LocalTransactionId	1600
activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller (Marshaling code for Open Wire Format for LocalTransactionIdMarshaller (p. 1604))	1604
activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller (Marshaling code for Open Wire Format for LocalTransactionIdMarshaller (p. 1608))	1608
activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller (Marshaling code for Open Wire Format for LocalTransactionIdMarshaller (p. 1612))	1612
decaf::util::concurrent::Lock (A wrapper class around a given synchronization mechanism that provides automatic release upon destruction)	1616
decaf::util::concurrent::locks::Lock (Lock (p. 1618) implementations provide more extensive locking operations than can be obtained using synchronized statements)	1618
decaf::util::logging::Logger	1623
decaf::util::logging::LoggerHierarchy	1632
activemq::io::LoggingInputStream	1633
activemq::io::LoggingOutputStream (OutputStream filter that just logs the data being written)	1635
activemq::transport::logging::LoggingTransport (A transport (p. 67) filter that logs commands (p. 59) as they are sent/received)	1637
decaf::util::logging::LogManager (There is a single global LogManager (p. 1640) object that is used to maintain a set of shared state about Loggers and log services)	1640
decaf::util::logging::LogRecord	1645
decaf::util::logging::LogWriter	1650

decaf::lang::Long	1652
decaf::internal::nio::LongArrayBuffer	1666
decaf::nio::LongBuffer (This class defines four categories of operations upon long long buffers:)	1674
activemq::util::LongSequenceGenerator (This class is used to generate a sequence of long long values that are incremented each time a new value is requested)	1685
decaf::net::MalformedURLException	1686
decaf::util::Map< K, V, COMPARATOR > (Map (p.1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map)	1689
cms::MapMessage (A MapMessage (p.1701) object is used to send a set of name-value pairs)	1701
decaf::util::logging::MarkBlockLogger (Defines a class that can be used to mark the entry and exit from scoped blocks)	1711
activemq::wireformat::MarshalAware	1712
activemq::wireformat::openwire::marshal::v2::MarshallerFactory (Used to create marshallers for a specific version of the wire protocol)	1715
activemq::wireformat::openwire::marshal::v3::MarshallerFactory (Used to create marshallers for a specific version of the wire protocol)	1716
activemq::wireformat::openwire::marshal::v1::MarshallerFactory (Used to create marshallers for a specific version of the wire protocol)	1717
decaf::lang::Math (The class Math (p.1718) contains methods for performing basic numeric operations such as the elementary exponential, logarithm, square root, and trigonometric functions)	1718
activemq::util::MemoryUsage	1733
activemq::commands::Message	1737
cms::Message (Root of all messages)	1753
activemq::commands::MessageAck	1777
activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller (Marshaling code for Open Wire Format for MessageAckMarshaller (p.1783))	1783
activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller (Marshaling code for Open Wire Format for MessageAckMarshaller (p.1787))	1787
activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller (Marshaling code for Open Wire Format for MessageAckMarshaller (p.1791))	1791
cms::MessageConsumer (A client uses a MessageConsumer (p.1795) to received messages from a destination)	1795
activemq::cmsutil::MessageCreator (Creates the user-defined message to be sent by the CmsTemplate (p.858))	1799
activemq::commands::MessageDispatch	1800
activemq::core::MessageDispatchChannel	1805
activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller (Marshaling code for Open Wire Format for MessageDispatchMarshaller (p.1811))	1811
activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller (Marshaling code for Open Wire Format for MessageDispatchMarshaller (p.1815))	1815
activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller (Marshaling code for Open Wire Format for MessageDispatchMarshaller (p.1819))	1819
activemq::commands::MessageDispatchNotification	1823

activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller (Marshaling code for Open Wire Format for MessageDispatchNotificationMarshaller (p. 1829))	1829
activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller (Marshaling code for Open Wire Format for MessageDispatchNotificationMarshaller (p. 1833))	1833
activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller (Marshaling code for Open Wire Format for MessageDispatchNotificationMarshaller (p. 1837))	1837
cms::MessageEOFException (This exception must be thrown when an unexpected end of stream has been reached when a StreamMessage (p. 2476) or BytesMessage (p. 759) is being read)	1841
cms::MessageFormatException (This exception must be thrown when a CMS client attempts to use a data type not supported by a message or attempts to read data in a message as the wrong type)	1842
activemq::commands::MessageId	1843
activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller (Marshaling code for Open Wire Format for MessageIdMarshaller (p. 1848))	1848
activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller (Marshaling code for Open Wire Format for MessageIdMarshaller (p. 1852))	1852
activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller (Marshaling code for Open Wire Format for MessageIdMarshaller (p. 1856))	1856
cms::MessageListener (A MessageListener (p. 1860) object is used to receive asynchronously delivered messages)	1860
activemq::wireformat::openwire::marshal::v2::MessageMarshaller (Marshaling code for Open Wire Format for MessageMarshaller (p. 1861))	1861
activemq::wireformat::openwire::marshal::v3::MessageMarshaller (Marshaling code for Open Wire Format for MessageMarshaller (p. 1866))	1866
activemq::wireformat::openwire::marshal::v1::MessageMarshaller (Marshaling code for Open Wire Format for MessageMarshaller (p. 1871))	1871
cms::MessageNotReadableException (This exception must be thrown when a CMS client attempts to read a write-only message)	1876
cms::MessageNotWriteableException (This exception must be thrown when a CMS client attempts to write to a read-only message)	1877
cms::MessageProducer (A client uses a MessageProducer (p. 1878) object to send messages to a Destination (p. 1190))	1878
activemq::wireformat::openwire::utils::MessagePropertyInterceptor (Used the base ActiveMQMessage class to intercept calls to get and set properties in order to capture the calls that use the reserved JMS properties and get and set them in the OpenWire Message properties)	1885
activemq::commands::MessagePull	1893
activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (Marshaling code for Open Wire Format for MessagePullMarshaller (p. 1898))	1898
activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (Marshaling code for Open Wire Format for MessagePullMarshaller (p. 1902))	1902
activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (Marshaling code for Open Wire Format for MessagePullMarshaller (p. 1906))	1906
activemq::transport::mock::MockTransport (The MockTransport (p. 1910) defines a base level Transport (p. 2608) class that is intended to be used in place of an a regular protocol Transport (p. 2608) such as TCP)	1910

activemq::transport::mock::MockTransportFactory (Manufactures MockTrans- ports, which are objects that read from input streams and write to output streams)	1918
decaf::util::concurrent::Mutex (Creates a pthread_mutex_t object)	1921
activemq::commands::NetworkBridgeFilter	1924
activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller (Marshaling code for Open Wire Format for NetworkBridgeFilterMar- shaller (p.1927))	1927
activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller (Marshaling code for Open Wire Format for NetworkBridgeFilterMar- shaller (p.1931))	1931
activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller (Marshaling code for Open Wire Format for NetworkBridgeFilterMar- shaller (p.1935))	1935
decaf::net::NoRouteToHostException	1939
decaf::security::NoSuchAlgorithmException	1942
decaf::lang::exceptions::NoSuchElementException	1945
decaf::security::NoSuchProviderException	1948
decaf::lang::exceptions::NullPointerException	1951
decaf::lang::Number (The abstract class Number (p.1954) is the superclass of classes Byte (p.664), Double (p.1231), Float (p.1328), Integer (p.1428), Long (p.1652), and Short (p.2321))	1954
decaf::lang::exceptions::NumberFormatException	1957
cms::ObjectMessage (Place holder for interaction with JMS systems that support Java, the C++ client is not responsible for deserializing the contained Object) . . .	1960
decaf::security_provider::unix::openssl::OpenSSLX500Principal (The OpenSSLX500Principal (p.1961) wraps around an OpenSSL X509_NAME structure)	1961
decaf::security_provider::unix::openssl::OpenSSLX509Certificate	1964
activemq::wireformat::openwire::OpenWireFormat	1970
activemq::wireformat::openwire::OpenWireFormatFactory	1982
activemq::wireformat::openwire::OpenWireFormatNegotiator	1984
activemq::wireformat::openwire::OpenWireResponseBuilder	1988
activemq::wireformat::openwire::utils::OpenWireStringSupport	1990
decaf::io::OutputStream (Base interface for an output stream)	1992
activemq::commands::PartialCommand	1995
activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller (Marshaling code for Open Wire Format for PartialCommandMarshaller (p.1999))	1999
activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller (Marshaling code for Open Wire Format for PartialCommandMarshaller (p.2003))	2003
activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller (Marshaling code for Open Wire Format for PartialCommandMarshaller (p.2007))	2007
decaf::lang::Pointer< T, REFCOUNTER > (Decaf's implementation of a Smart Pointer (p.2011) that is a template on a Type and is Thread (p.2544) Safe if the default Reference Counter is used)	2011
decaf::lang::PointerComparator< T, R > (This implementation of Comparator is designed to allows objects in a Collection to be sorted or tested for equality based on the value of the Object being Pointed to and not the value of the contained pointer in the Pointer (p.2011) instance)	2018
activemq::cmsutil::PooledSession (A pooled session object that wraps around a dele- gate session)	2019

decaf::util::concurrent::PooledThread	2032
decaf::util::concurrent::PooledThreadListener (Abstract Listener Interface for users of ThreadPool (p. 2549))	2035
decaf::net::PortUnreachableException	2037
activemq::util::PrimitiveList (List of primitives)	2040
activemq::util::PrimitiveMap (Map of named primitives)	2051
activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller (This class wraps the functionality needed to marshal (p. 76) a primitive map to the Openwire Format's expectation of what the map looks like on the wire)	2061
activemq::util::PrimitiveValueNode::PrimitiveValue (Define a union type comprised of the various types)	2066
activemq::util::PrimitiveValueConverter (Class controls the conversion of data contained in a PrimitiveValueNode (p. 2070) from one type to another)	2068
activemq::util::PrimitiveValueNode (Class that wraps around a single value of one of the many types)	2070
decaf::security::Principal (Base interface for a principal, which can represent an individual or organization)	2084
activemq::commands::ProducerAck	2086
activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (Marshaling code for Open Wire Format for ProducerAckMarshaller (p. 2090))	2090
activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (Marshaling code for Open Wire Format for ProducerAckMarshaller (p. 2094))	2094
activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (Marshaling code for Open Wire Format for ProducerAckMarshaller (p. 2098))	2098
activemq::cmsutil::ProducerCallback (Callback for sending a message to a CMS destination)	2102
activemq::cmsutil::CmsTemplate::ProducerExecutor	2103
activemq::commands::ProducerId	2105
activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller (Marshaling code for Open Wire Format for ProducerIdMarshaller (p. 2110))	2110
activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller (Marshaling code for Open Wire Format for ProducerIdMarshaller (p. 2114))	2114
activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller (Marshaling code for Open Wire Format for ProducerIdMarshaller (p. 2118))	2118
activemq::commands::ProducerInfo	2122
activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (Marshaling code for Open Wire Format for ProducerInfoMarshaller (p. 2127))	2127
activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (Marshaling code for Open Wire Format for ProducerInfoMarshaller (p. 2131))	2131
activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (Marshaling code for Open Wire Format for ProducerInfoMarshaller (p. 2135))	2135
activemq::state::ProducerState	2139
decaf::util::Properties (Java-like properties class for mapping string names to string values)	2140

decaf::util::logging::PropertiesChangeListener (Defines the interface that classes can use to listen for change events on Properties (p. 2140))	2149
decaf::net::ProtocolException	2150
decaf::security::PublicKey (A public key)	2153
decaf::util::Queue< E > (A kind of collection provides advanced operations than other basic collections, such as insertion, extraction, and inspection)	2154
cms::Queue (An interface encapsulating a provider-specific queue name)	2157
cms::QueueBrowser (This class implements in interface for browsing the messages in a Queue (p. 2157) without removing them)	2158
decaf::util::Random (Random (p. 2160) Value Generator which is used to generate a stream of pseudorandom numbers)	2160
decaf::io::Reader	2165
decaf::nio::ReadOnlyBufferException	2167
decaf::util::concurrent::locks::ReadWriteLock (A ReadWriteLock (p. 2170) maintains a pair of associated locks (p. 119), one for read-only operations and one for writing)	2170
activemq::cmsutil::CmsTemplate::ReceiveExecutor	2172
decaf::util::concurrent::RejectedExecutionException	2174
activemq::commands::RemoveInfo	2177
activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (Marshaling code for Open Wire Format for RemoveInfoMarshaller (p. 2181))	2181
activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (Marshaling code for Open Wire Format for RemoveInfoMarshaller (p. 2185))	2185
activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (Marshaling code for Open Wire Format for RemoveInfoMarshaller (p. 2189))	2189
activemq::commands::RemoveSubscriptionInfo	2193
activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller (Marshaling code for Open Wire Format for RemoveSubscriptionInfoMarshaller (p. 2198))	2198
activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller (Marshaling code for Open Wire Format for RemoveSubscriptionInfoMarshaller (p. 2202))	2202
activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller (Marshaling code for Open Wire Format for RemoveSubscriptionInfoMarshaller (p. 2206))	2206
activemq::commands::ReplayCommand	2210
activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller (Marshaling code for Open Wire Format for ReplayCommandMarshaller (p. 2214))	2214
activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller (Marshaling code for Open Wire Format for ReplayCommandMarshaller (p. 2218))	2218
activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller (Marshaling code for Open Wire Format for ReplayCommandMarshaller (p. 2222))	2222
activemq::cmsutil::CmsTemplate::ResolveProducerExecutor	2226
activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor	2227
activemq::cmsutil::ResourceLifecycleManager (Manages the lifecycle of a set of CMS resources)	2228
activemq::commands::Response	2231

activemq::transport::mock::ResponseBuilder (Interface for all Protocols to implement that defines the behavior of the Broker in response to messages of that protocol)	2235
activemq::transport::correlator::ResponseCorrelator (This type of transport (p. 67) filter is responsible for correlating asynchronous responses with requests)	2237
activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (Marshaling code for Open Wire Format for ResponseMarshaller (p. 2241))	2241
activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (Marshaling code for Open Wire Format for ResponseMarshaller (p. 2246))	2246
activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (Marshaling code for Open Wire Format for ResponseMarshaller (p. 2251))	2251
decaf::lang::Runnable (Interface for a runnable object - defines a task that can be run by a thread)	2256
decaf::lang::Runtime	2257
decaf::lang::exceptions::RuntimeException	2259
decaf::security_provider::SecurityProvider	2262
decaf::security_provider::SecurityProviderMap (Lookup Map for Connector Factories)	2263
decaf::security_provider::SecurityProviderRegistrar (Registers the passed in provider into the provider map, this class can manage the lifetime of the registered provider (default behaviour))	2265
activemq::cmsutil::CmsTemplate::SendExecutor	2267
decaf::net::ServerSocket (A server socket class (for testing purposes))	2268
cms::Session (A Session (p. 2270) object is a single-threaded context for producing and consuming messages)	2270
activemq::cmsutil::SessionCallback (Callback for executing any number of operations on a provided CMS Session)	2283
activemq::commands::SessionId	2284
activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller (Marshaling code for Open Wire Format for SessionIdMarshaller (p. 2288))	2288
activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller (Marshaling code for Open Wire Format for SessionIdMarshaller (p. 2292))	2292
activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller (Marshaling code for Open Wire Format for SessionIdMarshaller (p. 2296))	2296
activemq::commands::SessionInfo	2300
activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (Marshaling code for Open Wire Format for SessionInfoMarshaller (p. 2304))	2304
activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (Marshaling code for Open Wire Format for SessionInfoMarshaller (p. 2308))	2308
activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (Marshaling code for Open Wire Format for SessionInfoMarshaller (p. 2312))	2312
activemq::cmsutil::SessionPool (A pool of CMS sessions from the same connection and with the same acknowledge mode)	2316
activemq::state::SessionState	2318
decaf::util::Set< E > (A collection that contains no duplicate elements)	2320
decaf::lang::Short	2321
decaf::internal::nio::ShortArrayBuffer	2330
decaf::nio::ShortBuffer (This class defines four categories of operations upon short buffers:)	2338
activemq::commands::ShutdownInfo	2349
activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (Marshaling code for Open Wire Format for ShutdownInfoMarshaller (p. 2352))	2352

activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (Marshaling code for Open Wire Format for ShutdownInfoMarshaller (p. 2356))	2356
activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (Marshaling code for Open Wire Format for ShutdownInfoMarshaller (p. 2360))	2360
decaf::security::SignatureException	2364
decaf::util::logging::SimpleFormatter (Print a brief summary of the LogRecord (p. 1645) in a human readable format)	2367
decaf::util::logging::SimpleLogger	2369
decaf::net::Socket	2371
decaf::net::SocketError (Static utility class to simplify handling of error codes for socket operations)	2378
decaf::net::SocketException (Exception for errors when manipulating sockets)	2379
decaf::net::SocketFactory (Socket (p. 2371) Factory implementation for use in Creating Sockets)	2382
decaf::net::SocketInputStream (Input stream for performing reads on a socket)	2384
decaf::net::SocketOutputStream (Output stream for performing write operations on a socket)	2390
decaf::net::SocketTimeoutException	2395
activemq::commands::BrokerError::StackTraceElement	2398
decaf::internal::io::StandardErrorOutputStream (Wrapper Around the Standard error Output facility on the current platform)	2399
decaf::internal::io::StandardInputStream	2403
decaf::internal::io::StandardOutputStream	2409
cms::Startable (Interface for a class that implements the start method)	2413
decaf::lang::STATIC_CAST_TOKEN	2414
activemq::core::ActiveMQConstants::StaticInitializer	2415
decaf::util::StlList< E > (List (p. 1591) class that wraps the STL list object to provide a simpler interface and additional methods not provided by the STL type)	2416
decaf::util::StlMap< K, V, COMPARATOR > (Map (p. 1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map)	2429
decaf::util::StlQueue< T > (The Queue (p. 2154) class accepts messages with an psuh(m) command where m is the message to be queued)	2440
decaf::util::StlSet< E > (Set (p. 2320) template that wraps around a std::set to provide a more user-friendly interface and to provide common functions that do not exist in std::set)	2446
activemq::wireformat::stomp::StompCommandConstants	2452
activemq::wireformat::stomp::StompFrame (A Stomp-level message frame that encloses all messages to and from the broker)	2456
activemq::wireformat::stomp::StompHelper (Utility Methods used when marshaling to and from StompFrame's)	2461
activemq::wireformat::stomp::StompWireFormat	2466
activemq::wireformat::stomp::StompWireFormatFactory (Factory used to create the Stomp Wire Format instance)	2470
cms::Stoppable (Interface for a class that implements the stop method)	2471
decaf::util::logging::StreamHandler	2472
cms::StreamMessage (Interface for a StreamMessage (p. 2476))	2476
decaf::util::StringTokenizer	2488
activemq::commands::SubscriptionInfo	2491
activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller (Marshaling code for Open Wire Format for SubscriptionInfoMarshaller (p. 2496))	2496

activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller (Marshaling code for Open Wire Format for SubscriptionInfoMarshaller (p. 2500))	2500
activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller (Marshaling code for Open Wire Format for SubscriptionInfoMarshaller (p. 2504))	2504
decaf::util::concurrent::Synchronizable (The interface for all synchronizable objects (that is, objects that can be locked and unlocked))	2508
activemq::core::Synchronization (Transacted Object Synchronization (p. 2516), used to sync the events of a Transaction with the items in the Transaction)	2516
decaf::lang::System	2517
activemq::threads::Task (Represents a unit of work that requires one or more iterations to complete)	2520
decaf::util::concurrent::TaskListener	2521
activemq::threads::TaskRunner	2522
decaf::net::TcpSocket (Platform-independent implementation of the socket interface)	2524
activemq::transport::tcp::TcpTransport (Implements a TCP/IP based transport (p. 67) filter, this transport (p. 67) is meant to wrap an instance of an IO-Transport (p. 1480))	2532
activemq::transport::tcp::TcpTransportFactory (Factory Responsible for creating the TcpTransport (p. 2532))	2535
cms::TemporaryQueue (Defines a Temporary Queue (p. 2157) based Destination (p. 1190))	2538
cms::TemporaryTopic (Defines a Temporary Topic (p. 2571) based Destination (p. 1190))	2540
cms::TextMessage (Interface for a text message)	2542
decaf::lang::Thread (Basic thread class - mimics the Java Thread (p. 2544))	2544
decaf::util::concurrent::ThreadFactory (Public interface ThreadFactory (p. 2547))	2547
decaf::util::concurrent::ThreadPool (Defines a Thread Pool object that implements the functionality of pooling threads to perform user tasks)	2549
decaf::lang::Throwable (This class represents an error that has occurred)	2555
decaf::util::concurrent::TimeoutException	2559
decaf::util::concurrent::TimeUnit (A TimeUnit (p. 2562) represents time durations at a given unit of granularity and provides utility methods to convert across units, and to perform timing and delay operations in these units)	2562
cms::Topic (An interface encapsulating a provider-specific topic name)	2571
activemq::state::Tracked	2572
activemq::commands::TransactionId	2573
activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller (Mar- shaling code for Open Wire Format for TransactionIdMarshaller (p. 2577))	2577
activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller (Mar- shaling code for Open Wire Format for TransactionIdMarshaller (p. 2581))	2581
activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller (Mar- shaling code for Open Wire Format for TransactionIdMarshaller (p. 2585))	2585
activemq::commands::TransactionInfo	2589
activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (Marshaling code for Open Wire Format for TransactionInfoMarshaller (p. 2594))	2594

activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (Marshaling code for Open Wire Format for TransactionInfoMarshaller (p. 2598))	2598
activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (Marshaling code for Open Wire Format for TransactionInfoMarshaller (p. 2602))	2602
activemq::state::TransactionState	2606
activemq::transport::Transport (Interface for a transport (p. 67) layer for command objects)	2608
activemq::transport::TransportFactory (Defines the interface for Factories that cre- ate Transports or TransportFilters)	2614
activemq::transport::TransportFilter (A filter on the transport (p. 67) layer) . .	2616
activemq::transport::TransportListener (A listener of asynchronous exceptions (p. 62) from a command transport (p. 67) object)	2624
activemq::transport::TransportRegistry (Registry of all Transport (p. 2608) Fac- tories that are available to the client at runtime)	2626
decaf::net::UnknownHostException	2629
decaf::net::UnknownServiceException	2632
decaf::lang::exceptions::UnsupportedOperationException	2635
decaf::net::URI (This class represents an instance of a URI (p. 2638) as defined by RFC 2396)	2638
decaf::internal::net::URIEncoderDecoder	2649
decaf::internal::net::URIHelper (Helper class used by the URI classes in encoding and decoding of URIs)	2652
activemq::transport::failover::URIPool	2659
activemq::util::URISupport	2662
decaf::net::URISyntaxException	2665
decaf::internal::net::URIType (Basic type object that holds data that composes a given URI)	2669
decaf::net::URL (Class URL (p. 2677) represents a Uniform Resource Locator, a pointer to a "resource" on the World Wide Web)	2677
decaf::net::URLDecoder	2679
decaf::net::URLEncoder	2680
activemq::util::Usage	2681
decaf::io::UTFDataFormatException (Thrown from classes that attempt to read or write a UTF-8 encoded string and an encoding error is encountered)	2683
decaf::util::UUID (A class that represents an immutable universally unique identifier (UUID (p. 2686)))	2686
activemq::wireformat::WireFormat (Provides a mechanism to marshal commands (p. 59) into and out of packets or into and out of streams, Channels and Data- grams)	2693
activemq::wireformat::WireFormatFactory (The WireFormatFactory (p. 2697) is the interface that all WireFormatFactory (p. 2697) classes must extend) .	2697
activemq::commands::WireFormatInfo	2699
activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller (Marshaling code for Open Wire Format for WireFormatInfoMarshaller (p. 2709))	2709
activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller (Marshaling code for Open Wire Format for WireFormatInfoMarshaller (p. 2713))	2713
activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller (Marshaling code for Open Wire Format for WireFormatInfoMarshaller (p. 2717))	2717

activemq::wireformat::WireFormatNegotiator (Defines a WireFormatNegotiator (p. 2721) which allows a WireFormat (p. 2693) to)	2721
activemq::wireformat::WireFormatRegistry (Registry of all WireFormat (p. 2693) Factories that are available to the client at runtime)	2722
decaf::io::Writer	2725
decaf::security::auth::x500::X500Principal	2727
decaf::security::cert::X509Certificate (Base interface for all identity certificates)	2728
activemq::commands::XATransactionId	2731
activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller (Marshaling code for Open Wire Format for XATransactionIdMarshaller (p. 2736))	2736
activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller (Marshaling code for Open Wire Format for XATransactionIdMarshaller (p. 2740))	2740
activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller (Marshaling code for Open Wire Format for XATransactionIdMarshaller (p. 2744))	2744

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

src/main/activemq/cmsutil/	CachedConsumer.h	2749
src/main/activemq/cmsutil/	CachedProducer.h	2750
src/main/activemq/cmsutil/	CmsAccessor.h	2751
src/main/activemq/cmsutil/	CmsDestinationAccessor.h	2752
src/main/activemq/cmsutil/	CmsTemplate.h	2753
src/main/activemq/cmsutil/	DestinationResolver.h	2754
src/main/activemq/cmsutil/	DynamicDestinationResolver.h	2755
src/main/activemq/cmsutil/	MessageCreator.h	2756
src/main/activemq/cmsutil/	PooledSession.h	2757
src/main/activemq/cmsutil/	ProducerCallback.h	2758
src/main/activemq/cmsutil/	ResourceLifecycleManager.h	2759
src/main/activemq/cmsutil/	SessionCallback.h	2760
src/main/activemq/cmsutil/	SessionPool.h	2761
src/main/activemq/commands/	ActiveMQBlobMessage.h	2762
src/main/activemq/commands/	ActiveMQBytesMessage.h	2763
src/main/activemq/commands/	ActiveMQDestination.h	2764
src/main/activemq/commands/	ActiveMQMapMessage.h	2765
src/main/activemq/commands/	ActiveMQMessage.h	2766
src/main/activemq/commands/	ActiveMQMessageTemplate.h	2767
src/main/activemq/commands/	ActiveMQObjectMessage.h	2768
src/main/activemq/commands/	ActiveMQQueue.h	2769
src/main/activemq/commands/	ActiveMQStreamMessage.h	2770
src/main/activemq/commands/	ActiveMQTempDestination.h	2771
src/main/activemq/commands/	ActiveMQTempQueue.h	2772
src/main/activemq/commands/	ActiveMQTempTopic.h	2773
src/main/activemq/commands/	ActiveMQTextMessage.h	2774
src/main/activemq/commands/	ActiveMQTopic.h	2775
src/main/activemq/commands/	BaseCommand.h	2776
src/main/activemq/commands/	BaseDataStructure.h	2777
src/main/activemq/commands/	BooleanExpression.h	2778
src/main/activemq/commands/	BrokerError.h	2779
src/main/activemq/commands/	BrokerId.h	2780
src/main/activemq/commands/	BrokerInfo.h	2781

src/main/activemq/commands/	Command.h	2782
src/main/activemq/commands/	ConnectionControl.h	2783
src/main/activemq/commands/	ConnectionError.h	2784
src/main/activemq/commands/	ConnectionId.h	2785
src/main/activemq/commands/	ConnectionInfo.h	2786
src/main/activemq/commands/	ConsumerControl.h	2787
src/main/activemq/commands/	ConsumerId.h	2788
src/main/activemq/commands/	ConsumerInfo.h	2789
src/main/activemq/commands/	ControlCommand.h	2790
src/main/activemq/commands/	DataArrayResponse.h	2791
src/main/activemq/commands/	DataResponse.h	2792
src/main/activemq/commands/	DataStructure.h	2793
src/main/activemq/commands/	DestinationInfo.h	2794
src/main/activemq/commands/	DiscoveryEvent.h	2795
src/main/activemq/commands/	ExceptionResponse.h	2796
src/main/activemq/commands/	FlushCommand.h	2797
src/main/activemq/commands/	IntegerResponse.h	2798
src/main/activemq/commands/	JournalQueueAck.h	2799
src/main/activemq/commands/	JournalTopicAck.h	2800
src/main/activemq/commands/	JournalTrace.h	2801
src/main/activemq/commands/	JournalTransaction.h	2802
src/main/activemq/commands/	KeepAliveInfo.h	2803
src/main/activemq/commands/	LastPartialCommand.h	2804
src/main/activemq/commands/	LocalTransactionId.h	2805
src/main/activemq/commands/	Message.h	2806
src/main/activemq/commands/	MessageAck.h	2808
src/main/activemq/commands/	MessageDispatch.h	2809
src/main/activemq/commands/	MessageDispatchNotification.h	2810
src/main/activemq/commands/	MessageId.h	2811
src/main/activemq/commands/	MessagePull.h	2812
src/main/activemq/commands/	NetworkBridgeFilter.h	2813
src/main/activemq/commands/	PartialCommand.h	2814
src/main/activemq/commands/	ProducerAck.h	2815
src/main/activemq/commands/	ProducerId.h	2816
src/main/activemq/commands/	ProducerInfo.h	2817
src/main/activemq/commands/	RemoveInfo.h	2818
src/main/activemq/commands/	RemoveSubscriptionInfo.h	2819
src/main/activemq/commands/	ReplayCommand.h	2820
src/main/activemq/commands/	Response.h	2821
src/main/activemq/commands/	SessionId.h	2822
src/main/activemq/commands/	SessionInfo.h	2823
src/main/activemq/commands/	ShutdownInfo.h	2824
src/main/activemq/commands/	SubscriptionInfo.h	2825
src/main/activemq/commands/	TransactionId.h	2826
src/main/activemq/commands/	TransactionInfo.h	2827
src/main/activemq/commands/	WireFormatInfo.h	2828
src/main/activemq/commands/	XATransactionId.h	2829
src/main/activemq/core/	ActiveMQAckHandler.h	2830
src/main/activemq/core/	ActiveMQConnection.h	2831
src/main/activemq/core/	ActiveMQConnectionFactory.h	2832
src/main/activemq/core/	ActiveMQConnectionMetaData.h	2833
src/main/activemq/core/	ActiveMQConnectionSupport.h	2834
src/main/activemq/core/	ActiveMQConstants.h	2835
src/main/activemq/core/	ActiveMQConsumer.h	2836

src/main/activemq/core/ActiveMQProducer.h	2837
src/main/activemq/core/ActiveMQSession.h	2838
src/main/activemq/core/ActiveMQSessionExecutor.h	2839
src/main/activemq/core/ActiveMQTransactionContext.h	2840
src/main/activemq/core/DispatchData.h	2841
src/main/activemq/core/Dispatcher.h	2842
src/main/activemq/core/MessageDispatchChannel.h	2843
src/main/activemq/core/Synchronization.h	2844
src/main/activemq/exceptions/ActiveMQException.h	2845
src/main/activemq/exceptions/BrokerException.h	2846
src/main/activemq/exceptions/ExceptionDefines.h	2847
src/main/activemq/io/LoggingInputStream.h	2853
src/main/activemq/io/LoggingOutputStream.h	2854
src/main/activemq/library/ActiveMQCPP.h	2855
src/main/activemq/state/CommandVisitor.h	2856
src/main/activemq/state/CommandVisitorAdapter.h	2857
src/main/activemq/state/ConnectionState.h	2859
src/main/activemq/state/ConnectionStateTracker.h	2860
src/main/activemq/state/ConsumerState.h	2861
src/main/activemq/state/ProducerState.h	2862
src/main/activemq/state/SessionState.h	2863
src/main/activemq/state/Tracked.h	2864
src/main/activemq/state/TransactionState.h	2865
src/main/activemq/threads/CompositeTask.h	2866
src/main/activemq/threads/CompositeTaskRunner.h	2867
src/main/activemq/threads/DedicatedTaskRunner.h	2868
src/main/activemq/threads/Task.h	2869
src/main/activemq/threads/TaskRunner.h	2870
src/main/activemq/transport/AbstractTransportFactory.h	2871
src/main/activemq/transport/CompositeTransport.h	2872
src/main/activemq/transport/DefaultTransportListener.h	2875
src/main/activemq/transport/IOTransport.h	2883
src/main/activemq/transport/Transport.h	2891
src/main/activemq/transport/TransportFactory.h	2892
src/main/activemq/transport/TransportFilter.h	2893
src/main/activemq/transport/TransportListener.h	2894
src/main/activemq/transport/TransportRegistry.h	2895
src/main/activemq/transport/correlator/FutureResponse.h	2873
src/main/activemq/transport/correlator/ResponseCorrelator.h	2874
src/main/activemq/transport/failover/BackupTransport.h	2876
src/main/activemq/transport/failover/BackupTransportPool.h	2877
src/main/activemq/transport/failover/CloseTransportsTask.h	2878
src/main/activemq/transport/failover/FailoverTransport.h	2879
src/main/activemq/transport/failover/FailoverTransportFactory.h	2880
src/main/activemq/transport/failover/FailoverTransportListener.h	2881
src/main/activemq/transport/failover/URIPool.h	2882
src/main/activemq/transport/logging/LoggingTransport.h	2884
src/main/activemq/transport/mock/InternalCommandListener.h	2885
src/main/activemq/transport/mock/MockTransport.h	2886
src/main/activemq/transport/mock/MockTransportFactory.h	2887
src/main/activemq/transport/mock/ResponseBuilder.h	2888
src/main/activemq/transport/tcp/TcpTransport.h	2889
src/main/activemq/transport/tcp/TcpTransportFactory.h	2890
src/main/activemq/util/ActiveMQProperties.h	2896

src/main/activemq/util/	CompositeData.h	2897
src/main/activemq/util/	Config.h	2898
src/main/activemq/util/	LongSequenceGenerator.h	2901
src/main/activemq/util/	MemoryUsage.h	2902
src/main/activemq/util/	PrimitiveList.h	2903
src/main/activemq/util/	PrimitiveMap.h	2904
src/main/activemq/util/	PrimitiveValueConverter.h	2905
src/main/activemq/util/	PrimitiveValueNode.h	2906
src/main/activemq/util/	URISupport.h	2907
src/main/activemq/util/	Usage.h	2908
src/main/activemq/wireformat/	MarshalAware.h	2909
src/main/activemq/wireformat/	WireFormat.h	3112
src/main/activemq/wireformat/	WireFormatFactory.h	3113
src/main/activemq/wireformat/	WireFormatNegotiator.h	3114
src/main/activemq/wireformat/	WireFormatRegistry.h	3115
src/main/activemq/wireformat/openwire/	OpenWireFormat.h	3099
src/main/activemq/wireformat/openwire/	OpenWireFormatFactory.h	3100
src/main/activemq/wireformat/openwire/	OpenWireFormatNegotiator.h	3101
src/main/activemq/wireformat/openwire/	OpenWireResponseBuilder.h	3102
src/main/activemq/wireformat/openwire/marshal/	BaseDataStreamMarshaller.h	2910
src/main/activemq/wireformat/openwire/marshal/	DataStreamMarshaller.h	2911
src/main/activemq/wireformat/openwire/marshal/	PrimitiveTypesMarshaller.h	2912
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQBlobMessageMarshaller.h	2913
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQBytesMessageMarshaller.h	2916
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQDestinationMarshaller.h	2919
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQMapMessageMarshaller.h	2922
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQMessageMarshaller.h	2925
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQObjectMessageMarshaller.h	2928
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQQueueMarshaller.h	2931
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQStreamMessageMarshaller.h	2934
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQTempDestinationMarshaller.h	2937
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQTempQueueMarshaller.h	2940
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQTempTopicMarshaller.h	2943
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQTextMessageMarshaller.h	2946
src/main/activemq/wireformat/openwire/marshal/v1/	ActiveMQTopicMarshaller.h	2949
src/main/activemq/wireformat/openwire/marshal/v1/	BaseCommandMarshaller.h	2952
src/main/activemq/wireformat/openwire/marshal/v1/	BrokerIdMarshaller.h	2955
src/main/activemq/wireformat/openwire/marshal/v1/	BrokerInfoMarshaller.h	2958
src/main/activemq/wireformat/openwire/marshal/v1/	ConnectionControlMarshaller.h	2961
src/main/activemq/wireformat/openwire/marshal/v1/	ConnectionErrorMarshaller.h	2964

src/main/activemq/wireformat/openwire/marshal/v1/	ConnectionIdMarshaller.h	2967
src/main/activemq/wireformat/openwire/marshal/v1/	ConnectionInfoMarshaller.h	2970
src/main/activemq/wireformat/openwire/marshal/v1/	ConsumerControlMarshaller.h	2973
src/main/activemq/wireformat/openwire/marshal/v1/	ConsumerIdMarshaller.h	2976
src/main/activemq/wireformat/openwire/marshal/v1/	ConsumerInfoMarshaller.h	2979
src/main/activemq/wireformat/openwire/marshal/v1/	ControlCommandMarshaller.h	2982
src/main/activemq/wireformat/openwire/marshal/v1/	DataArrayResponseMarshaller.h	2985
src/main/activemq/wireformat/openwire/marshal/v1/	DataResponseMarshaller.h	2988
src/main/activemq/wireformat/openwire/marshal/v1/	DestinationInfoMarshaller.h	2991
src/main/activemq/wireformat/openwire/marshal/v1/	DiscoveryEventMarshaller.h	2994
src/main/activemq/wireformat/openwire/marshal/v1/	ExceptionResponseMarshaller.h	2997
src/main/activemq/wireformat/openwire/marshal/v1/	FlushCommandMarshaller.h	3000
src/main/activemq/wireformat/openwire/marshal/v1/	IntegerResponseMarshaller.h	3003
src/main/activemq/wireformat/openwire/marshal/v1/	JournalQueueAckMarshaller.h	3006
src/main/activemq/wireformat/openwire/marshal/v1/	JournalTopicAckMarshaller.h	3009
src/main/activemq/wireformat/openwire/marshal/v1/	JournalTraceMarshaller.h	3012
src/main/activemq/wireformat/openwire/marshal/v1/	JournalTransactionMarshaller.h	3015
src/main/activemq/wireformat/openwire/marshal/v1/	KeepAliveInfoMarshaller.h	3018
src/main/activemq/wireformat/openwire/marshal/v1/	LastPartialCommandMarshaller.h	3021
src/main/activemq/wireformat/openwire/marshal/v1/	LocalTransactionIdMarshaller.h	3024
src/main/activemq/wireformat/openwire/marshal/v1/	MarshallerFactory.h	3027
src/main/activemq/wireformat/openwire/marshal/v1/	MessageAckMarshaller.h	3030
src/main/activemq/wireformat/openwire/marshal/v1/	MessageDispatchMarshaller.h	3033
src/main/activemq/wireformat/openwire/marshal/v1/	MessageDispatchNotificationMarshaller.h	3036
src/main/activemq/wireformat/openwire/marshal/v1/	MessageIdMarshaller.h	3039
src/main/activemq/wireformat/openwire/marshal/v1/	MessageMarshaller.h	3042
src/main/activemq/wireformat/openwire/marshal/v1/	MessagePullMarshaller.h	3045
src/main/activemq/wireformat/openwire/marshal/v1/	NetworkBridgeFilterMarshaller.h	3048
src/main/activemq/wireformat/openwire/marshal/v1/	PartialCommandMarshaller.h	3051
src/main/activemq/wireformat/openwire/marshal/v1/	ProducerAckMarshaller.h	3054
src/main/activemq/wireformat/openwire/marshal/v1/	ProducerIdMarshaller.h	3057
src/main/activemq/wireformat/openwire/marshal/v1/	ProducerInfoMarshaller.h	3060
src/main/activemq/wireformat/openwire/marshal/v1/	RemoveInfoMarshaller.h	3063
src/main/activemq/wireformat/openwire/marshal/v1/	RemoveSubscriptionInfoMarshaller.h	3066
src/main/activemq/wireformat/openwire/marshal/v1/	ReplayCommandMarshaller.h	3069
src/main/activemq/wireformat/openwire/marshal/v1/	ResponseMarshaller.h	3072
src/main/activemq/wireformat/openwire/marshal/v1/	SessionIdMarshaller.h	3075
src/main/activemq/wireformat/openwire/marshal/v1/	SessionInfoMarshaller.h	3078

src/main/activemq/wireformat/openwire/marshal/v1/ ShutdownInfoMarshaller.h	3081
src/main/activemq/wireformat/openwire/marshal/v1/ SubscriptionInfoMarshaller.h	3084
src/main/activemq/wireformat/openwire/marshal/v1/ TransactionIdMarshaller.h	3087
src/main/activemq/wireformat/openwire/marshal/v1/ TransactionInfoMarshaller.h	3090
src/main/activemq/wireformat/openwire/marshal/v1/ WireFormatInfoMarshaller.h	3093
src/main/activemq/wireformat/openwire/marshal/v1/ XATransactionIdMarshaller.h	3096
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQBlobMessageMarshaller.h	2914
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQBytesMessageMarshaller.h	2917
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQDestinationMarshaller.h	2920
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQMapMessageMarshaller.h	2923
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQMessageMarshaller.h	2926
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQObjectMessageMarshaller.h	2929
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQQueueMarshaller.h	2932
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQStreamMessageMarshaller.h	2935
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQTempDestinationMarshaller.h	2938
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQTempQueueMarshaller.h	2941
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQTempTopicMarshaller.h	2944
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQTextMessageMarshaller.h	2947
src/main/activemq/wireformat/openwire/marshal/v2/ ActiveMQTopicMarshaller.h	2950
src/main/activemq/wireformat/openwire/marshal/v2/ BaseCommandMarshaller.h	2953
src/main/activemq/wireformat/openwire/marshal/v2/ BrokerIdMarshaller.h	2956
src/main/activemq/wireformat/openwire/marshal/v2/ BrokerInfoMarshaller.h	2959
src/main/activemq/wireformat/openwire/marshal/v2/ ConnectionControlMarshaller.h	2962
src/main/activemq/wireformat/openwire/marshal/v2/ ConnectionErrorMarshaller.h	2965
src/main/activemq/wireformat/openwire/marshal/v2/ ConnectionIdMarshaller.h	2968
src/main/activemq/wireformat/openwire/marshal/v2/ ConnectionInfoMarshaller.h	2971
src/main/activemq/wireformat/openwire/marshal/v2/ ConsumerControlMarshaller.h	2974
src/main/activemq/wireformat/openwire/marshal/v2/ ConsumerIdMarshaller.h	2977
src/main/activemq/wireformat/openwire/marshal/v2/ ConsumerInfoMarshaller.h	2980
src/main/activemq/wireformat/openwire/marshal/v2/ ControlCommandMarshaller.h	2983
src/main/activemq/wireformat/openwire/marshal/v2/ DataArrayResponseMarshaller.h	2986
src/main/activemq/wireformat/openwire/marshal/v2/ DataResponseMarshaller.h	2989
src/main/activemq/wireformat/openwire/marshal/v2/ DestinationInfoMarshaller.h	2992
src/main/activemq/wireformat/openwire/marshal/v2/ DiscoveryEventMarshaller.h	2995

src/main/activemq/wireformat/openwire/marshal/v2/ExceptionResponseMarshaller.h	
2998	
src/main/activemq/wireformat/openwire/marshal/v2/FlushCommandMarshaller.h	3001
src/main/activemq/wireformat/openwire/marshal/v2/IntegerResponseMarshaller.h	
3004	
src/main/activemq/wireformat/openwire/marshal/v2/JournalQueueAckMarshaller.h	
3007	
src/main/activemq/wireformat/openwire/marshal/v2/JournalTopicAckMarshaller.h	
3010	
src/main/activemq/wireformat/openwire/marshal/v2/JournalTraceMarshaller.h	3013
src/main/activemq/wireformat/openwire/marshal/v2/JournalTransactionMarshaller.h	
3016	
src/main/activemq/wireformat/openwire/marshal/v2/KeepAliveInfoMarshaller.h	3019
src/main/activemq/wireformat/openwire/marshal/v2/LastPartialCommandMarshaller.h	
3022	
src/main/activemq/wireformat/openwire/marshal/v2/LocalTransactionIdMarshaller.h	
3025	
src/main/activemq/wireformat/openwire/marshal/v2/MarshallerFactory.h	3028
src/main/activemq/wireformat/openwire/marshal/v2/MessageAckMarshaller.h	3031
src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchMarshaller.h	
3034	
src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchNotificationMarshaller.h	
3037	
src/main/activemq/wireformat/openwire/marshal/v2/MessageIdMarshaller.h	3040
src/main/activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h	3043
src/main/activemq/wireformat/openwire/marshal/v2/MessagePullMarshaller.h	3046
src/main/activemq/wireformat/openwire/marshal/v2/NetworkBridgeFilterMarshaller.h	
3049	
src/main/activemq/wireformat/openwire/marshal/v2/PartialCommandMarshaller.h	
3052	
src/main/activemq/wireformat/openwire/marshal/v2/ProducerAckMarshaller.h	3055
src/main/activemq/wireformat/openwire/marshal/v2/ProducerIdMarshaller.h	3058
src/main/activemq/wireformat/openwire/marshal/v2/ProducerInfoMarshaller.h	3061
src/main/activemq/wireformat/openwire/marshal/v2/RemoveInfoMarshaller.h	3064
src/main/activemq/wireformat/openwire/marshal/v2/RemoveSubscriptionInfoMarshaller.h	
3067	
src/main/activemq/wireformat/openwire/marshal/v2/ReplayCommandMarshaller.h	
3070	
src/main/activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h	3073
src/main/activemq/wireformat/openwire/marshal/v2/SessionIdMarshaller.h	3076
src/main/activemq/wireformat/openwire/marshal/v2/SessionInfoMarshaller.h	3079
src/main/activemq/wireformat/openwire/marshal/v2/ShutdownInfoMarshaller.h	3082
src/main/activemq/wireformat/openwire/marshal/v2/SubscriptionInfoMarshaller.h	
3085	
src/main/activemq/wireformat/openwire/marshal/v2/TransactionIdMarshaller.h	3088
src/main/activemq/wireformat/openwire/marshal/v2/TransactionInfoMarshaller.h	3091
src/main/activemq/wireformat/openwire/marshal/v2/WireFormatInfoMarshaller.h	3094
src/main/activemq/wireformat/openwire/marshal/v2/XATransactionIdMarshaller.h	
3097	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBlobMessageMarshaller.h	
2915	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBytesMessageMarshaller.h	
2918	

src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQDestinationMarshaller.h	
2921	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMapMessageMarshaller.h	
2924	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMessageMarshaller.h	
2927	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQObjectMessageMarshaller.h	
2930	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQQueueMarshaller.h	
2933	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQStreamMessageMarshaller.h	
2936	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempDestinationMarshaller.h	
2939	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempQueueMarshaller.h	
2942	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempTopicMarshaller.h	
2945	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTextMessageMarshaller.h	
2948	
src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTopicMarshaller.h	2951
src/main/activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h	2954
src/main/activemq/wireformat/openwire/marshal/v3/BrokerIdMarshaller.h	2957
src/main/activemq/wireformat/openwire/marshal/v3/BrokerInfoMarshaller.h	2960
src/main/activemq/wireformat/openwire/marshal/v3/ConnectionControlMarshaller.h	
2963	
src/main/activemq/wireformat/openwire/marshal/v3/ConnectionErrorMarshaller.h	
2966	
src/main/activemq/wireformat/openwire/marshal/v3/ConnectionIdMarshaller.h	2969
src/main/activemq/wireformat/openwire/marshal/v3/ConnectionInfoMarshaller.h	2972
src/main/activemq/wireformat/openwire/marshal/v3/ConsumerControlMarshaller.h	
2975	
src/main/activemq/wireformat/openwire/marshal/v3/ConsumerIdMarshaller.h	2978
src/main/activemq/wireformat/openwire/marshal/v3/ConsumerInfoMarshaller.h	2981
src/main/activemq/wireformat/openwire/marshal/v3/ControlCommandMarshaller.h	
2984	
src/main/activemq/wireformat/openwire/marshal/v3/DataArrayResponseMarshaller.h	
2987	
src/main/activemq/wireformat/openwire/marshal/v3/DataResponseMarshaller.h	2990
src/main/activemq/wireformat/openwire/marshal/v3/DestinationInfoMarshaller.h	2993
src/main/activemq/wireformat/openwire/marshal/v3/DiscoveryEventMarshaller.h	2996
src/main/activemq/wireformat/openwire/marshal/v3/ExceptionResponseMarshaller.h	
2999	
src/main/activemq/wireformat/openwire/marshal/v3/FlushCommandMarshaller.h	3002
src/main/activemq/wireformat/openwire/marshal/v3/IntegerResponseMarshaller.h	
3005	
src/main/activemq/wireformat/openwire/marshal/v3/JournalQueueAckMarshaller.h	
3008	
src/main/activemq/wireformat/openwire/marshal/v3/JournalTopicAckMarshaller.h	
3011	
src/main/activemq/wireformat/openwire/marshal/v3/JournalTraceMarshaller.h	3014
src/main/activemq/wireformat/openwire/marshal/v3/JournalTransactionMarshaller.h	
3017	
src/main/activemq/wireformat/openwire/marshal/v3/KeepAliveInfoMarshaller.h	3020

src/main/activemq/wireformat/openwire/marshall/v3/ LastPartialCommandMarshaller.h	
3023	
src/main/activemq/wireformat/openwire/marshall/v3/ LocalTransactionIdMarshaller.h	
3026	
src/main/activemq/wireformat/openwire/marshall/v3/ MarshallerFactory.h	3029
src/main/activemq/wireformat/openwire/marshall/v3/ MessageAckMarshaller.h . .	3032
src/main/activemq/wireformat/openwire/marshall/v3/ MessageDispatchMarshaller.h	
3035	
src/main/activemq/wireformat/openwire/marshall/v3/ MessageDispatchNotificationMarshaller.h	
3038	
src/main/activemq/wireformat/openwire/marshall/v3/ MessageIdMarshaller.h . . .	3041
src/main/activemq/wireformat/openwire/marshall/v3/ MessageMarshaller.h	3044
src/main/activemq/wireformat/openwire/marshall/v3/ MessagePullMarshaller.h . .	3047
src/main/activemq/wireformat/openwire/marshall/v3/ NetworkBridgeFilterMarshaller.h	
3050	
src/main/activemq/wireformat/openwire/marshall/v3/ PartialCommandMarshaller.h	
3053	
src/main/activemq/wireformat/openwire/marshall/v3/ ProducerAckMarshaller.h . .	3056
src/main/activemq/wireformat/openwire/marshall/v3/ ProducerIdMarshaller.h . . .	3059
src/main/activemq/wireformat/openwire/marshall/v3/ ProducerInfoMarshaller.h . .	3062
src/main/activemq/wireformat/openwire/marshall/v3/ RemoveInfoMarshaller.h . .	3065
src/main/activemq/wireformat/openwire/marshall/v3/ RemoveSubscriptionInfoMarshaller.h	
3068	
src/main/activemq/wireformat/openwire/marshall/v3/ ReplayCommandMarshaller.h	
3071	
src/main/activemq/wireformat/openwire/marshall/v3/ ResponseMarshaller.h	3074
src/main/activemq/wireformat/openwire/marshall/v3/ SessionIdMarshaller.h	3077
src/main/activemq/wireformat/openwire/marshall/v3/ SessionInfoMarshaller.h . . .	3080
src/main/activemq/wireformat/openwire/marshall/v3/ ShutdownInfoMarshaller.h .	3083
src/main/activemq/wireformat/openwire/marshall/v3/ SubscriptionInfoMarshaller.h	
3086	
src/main/activemq/wireformat/openwire/marshall/v3/ TransactionIdMarshaller.h .	3089
src/main/activemq/wireformat/openwire/marshall/v3/ TransactionInfoMarshaller.h	3092
src/main/activemq/wireformat/openwire/marshall/v3/ WireFormatInfoMarshaller.h	3095
src/main/activemq/wireformat/openwire/marshall/v3/ XATransactionIdMarshaller.h	
3098	
src/main/activemq/wireformat/openwire/utis/ BooleanStream.h	3103
src/main/activemq/wireformat/openwire/utis/ HexTable.h	3104
src/main/activemq/wireformat/openwire/utis/ MessagePropertyInterceptor.h . . .	3105
src/main/activemq/wireformat/openwire/utis/ OpenwireStringSupport.h	3106
src/main/activemq/wireformat/stomp/ StompCommandConstants.h	3107
src/main/activemq/wireformat/stomp/ StompFrame.h	3108
src/main/activemq/wireformat/stomp/ StompHelper.h	3109
src/main/activemq/wireformat/stomp/ StompWireFormat.h	3110
src/main/activemq/wireformat/stomp/ StompWireFormatFactory.h	3111
src/main/cms/ BytesMessage.h	3116
src/main/cms/ Closeable.h	3117
src/main/cms/ CMSException.h	3119
src/main/cms/ CMSPProperties.h	3120
src/main/cms/ CMSSecurityException.h	3121
src/main/cms/ Config.h	2899
src/main/cms/ Connection.h	3122
src/main/cms/ ConnectionFactory.h	3123
src/main/cms/ ConnectionMetaData.h	3124

src/main/cms/DeliveryMode.h	3125
src/main/cms/Destination.h	3126
src/main/cms/ExceptionListener.h	3127
src/main/cms/IllegalStateException.h	3128
src/main/cms/InvalidClientIdException.h	3130
src/main/cms/InvalidDestinationException.h	3131
src/main/cms/InvalidSelectorException.h	3132
src/main/cms/MapMessage.h	3133
src/main/cms/Message.h	2807
src/main/cms/MessageConsumer.h	3134
src/main/cms/MessageEOFException.h	3135
src/main/cms/MessageFormatException.h	3136
src/main/cms/MessageListener.h	3137
src/main/cms/MessageNotReadableException.h	3138
src/main/cms/MessageNotWriteableException.h	3139
src/main/cms/MessageProducer.h	3140
src/main/cms/ObjectMessage.h	3141
src/main/cms/Queue.h	3142
src/main/cms/QueueBrowser.h	3144
src/main/cms/Session.h	3145
src/main/cms/Startable.h	3146
src/main/cms/Stopable.h	3147
src/main/cms/StreamMessage.h	3148
src/main/cms/TemporaryQueue.h	3149
src/main/cms/TemporaryTopic.h	3150
src/main/cms/TextMessage.h	3151
src/main/cms/Topic.h	3152
src/main/decaf/internal/AprPool.h	3153
src/main/decaf/internal/DecafRuntime.h	3154
src/main/decaf/internal/io/StandardErrorOutputStream.h	3155
src/main/decaf/internal/io/StandardInputStream.h	3156
src/main/decaf/internal/io/StandardOutputStream.h	3157
src/main/decaf/internal/net/URIEncoderDecoder.h	3158
src/main/decaf/internal/net/URIHelper.h	3159
src/main/decaf/internal/net/URIType.h	3160
src/main/decaf/internal/nio/BufferFactory.h	3161
src/main/decaf/internal/nio/ByteBuffer.h	3162
src/main/decaf/internal/nio/ByteArrayPerspective.h	3163
src/main/decaf/internal/nio/CharArrayBuffer.h	3164
src/main/decaf/internal/nio/DoubleArrayBuffer.h	3165
src/main/decaf/internal/nio/FloatArrayBuffer.h	3166
src/main/decaf/internal/nio/IntArrayBuffer.h	3167
src/main/decaf/internal/nio/LongArrayBuffer.h	3168
src/main/decaf/internal/nio/ShortArrayBuffer.h	3169
src/main/decaf/internal/util/ByteArrayAdapter.h	3170
src/main/decaf/internal/util/HexStringParser.h	3171
src/main/decaf/io/BlockingByteArrayInputStream.h	3172
src/main/decaf/io/BufferedInputStream.h	3173
src/main/decaf/io/BufferedOutputStream.h	3174
src/main/decaf/io/ByteArrayInputStream.h	3175
src/main/decaf/io/ByteArrayOutputStream.h	3176
src/main/decaf/io/Closeable.h	3118
src/main/decaf/io/DataInputStream.h	3177
src/main/decaf/io/DataOutputStream.h	3178

src/main/decaf/io/EOFException.h	3179
src/main/decaf/io/FilterInputStream.h	3180
src/main/decaf/io/FilterOutputStream.h	3181
src/main/decaf/io/InputStream.h	3182
src/main/decaf/io/InterruptedIOException.h	3183
src/main/decaf/io/IOException.h	3184
src/main/decaf/io/OutputStream.h	3185
src/main/decaf/io/Reader.h	3186
src/main/decaf/io/UTFDataFormatException.h	3187
src/main/decaf/io/Writer.h	3188
src/main/decaf/lang/Appendable.h	3189
src/main/decaf/lang/Boolean.h	3190
src/main/decaf/lang/Byte.h	3191
src/main/decaf/lang/Character.h	3192
src/main/decaf/lang/CharSequence.h	3193
src/main/decaf/lang/Comparable.h	3194
src/main/decaf/lang/Double.h	3195
src/main/decaf/lang/Exception.h	3196
src/main/decaf/lang/Float.h	3208
src/main/decaf/lang/Integer.h	3209
src/main/decaf/lang/Iterable.h	3210
src/main/decaf/lang/Long.h	3211
src/main/decaf/lang/Math.h	3212
src/main/decaf/lang/Number.h	3213
src/main/decaf/lang/Pointer.h	3214
src/main/decaf/lang/Runnable.h	3215
src/main/decaf/lang/Runtime.h	3216
src/main/decaf/lang/Short.h	3217
src/main/decaf/lang/System.h	3218
src/main/decaf/lang/Thread.h	3219
src/main/decaf/lang/Throwable.h	3220
src/main/decaf/lang/exceptions/ClassCastException.h	3197
src/main/decaf/lang/exceptions/ExceptionDefines.h	2850
src/main/decaf/lang/exceptions/IllegalArgumentException.h	3198
src/main/decaf/lang/exceptions/IllegalMonitorStateException.h	3199
src/main/decaf/lang/exceptions/IllegalStateException.h	3129
src/main/decaf/lang/exceptions/IndexOutOfBoundsException.h	3200
src/main/decaf/lang/exceptions/InterruptedException.h	3201
src/main/decaf/lang/exceptions/InvalidStateException.h	3202
src/main/decaf/lang/exceptions/NoSuchElementException.h	3203
src/main/decaf/lang/exceptions/NullPointerException.h	3204
src/main/decaf/lang/exceptions/NumberFormatException.h	3205
src/main/decaf/lang/exceptions/RuntimeException.h	3206
src/main/decaf/lang/exceptions/UnsupportedOperationException.h	3207
src/main/decaf/net/BindException.h	3221
src/main/decaf/net/BufferedSocket.h	3222
src/main/decaf/net/ConnectException.h	3223
src/main/decaf/net/HttpRetryException.h	3224
src/main/decaf/net/MalformedURLException.h	3225
src/main/decaf/net/NoRouteToHostException.h	3226
src/main/decaf/net/PortUnreachableException.h	3227
src/main/decaf/net/ProtocolException.h	3228
src/main/decaf/net/ServerSocket.h	3229
src/main/decaf/net/Socket.h	3230

src/main/decaf/net/	SocketError.h	3231
src/main/decaf/net/	SocketException.h	3232
src/main/decaf/net/	SocketFactory.h	3233
src/main/decaf/net/	SocketInputStream.h	3234
src/main/decaf/net/	SocketOutputStream.h	3235
src/main/decaf/net/	SocketTimeoutException.h	3236
src/main/decaf/net/	TcpSocket.h	3237
src/main/decaf/net/	UnknownHostException.h	3238
src/main/decaf/net/	UnknownServiceException.h	3239
src/main/decaf/net/	URI.h	3240
src/main/decaf/net/	URISyntaxException.h	3241
src/main/decaf/net/	URL.h	3242
src/main/decaf/net/	URLDecoder.h	3243
src/main/decaf/net/	URLEncoder.h	3244
src/main/decaf/nio/	Buffer.h	3245
src/main/decaf/nio/	BufferOverflowException.h	3246
src/main/decaf/nio/	BufferUnderflowException.h	3247
src/main/decaf/nio/	ByteBuffer.h	3248
src/main/decaf/nio/	CharBuffer.h	3249
src/main/decaf/nio/	DoubleBuffer.h	3250
src/main/decaf/nio/	FloatBuffer.h	3251
src/main/decaf/nio/	IntBuffer.h	3252
src/main/decaf/nio/	InvalidMarkException.h	3253
src/main/decaf/nio/	LongBuffer.h	3254
src/main/decaf/nio/	ReadOnlyBufferException.h	3255
src/main/decaf/nio/	ShortBuffer.h	3256
src/main/decaf/security/	GeneralSecurityException.h	3265
src/main/decaf/security/	InvalidKeyException.h	3266
src/main/decaf/security/	Key.h	3267
src/main/decaf/security/	KeyException.h	3268
src/main/decaf/security/	NoSuchAlgorithmException.h	3269
src/main/decaf/security/	NoSuchProviderException.h	3270
src/main/decaf/security/	Principal.h	3271
src/main/decaf/security/	PublicKey.h	3272
src/main/decaf/security/	SignatureException.h	3273
src/main/decaf/security/auth/x500/	X500Principal.h	3257
src/main/decaf/security/cert/	Certificate.h	3258
src/main/decaf/security/cert/	CertificateEncodingException.h	3259
src/main/decaf/security/cert/	CertificateException.h	3260
src/main/decaf/security/cert/	CertificateExpiredException.h	3261
src/main/decaf/security/cert/	CertificateNotYetValidException.h	3262
src/main/decaf/security/cert/	CertificateParsingException.h	3263
src/main/decaf/security/cert/	X509Certificate.h	3264
src/main/decaf/security_provider/	SecurityProvider.h	3274
src/main/decaf/security_provider/	SecurityProviderMap.h	3275
src/main/decaf/security_provider/	SecurityProviderRegistrar.h	3276
src/main/decaf/security_provider/unix/openssl/	OpenSSLX500Principal.h	3277
src/main/decaf/security_provider/unix/openssl/	OpenSSLX509Certificate.h	3278
src/main/decaf/util/	AbstractCollection.h	3279
src/main/decaf/util/	AbstractList.h	3280
src/main/decaf/util/	AbstractMap.h	3281
src/main/decaf/util/	AbstractQueue.h	3282
src/main/decaf/util/	AbstractSequentialList.h	3283
src/main/decaf/util/	AbstractSet.h	3284

src/main/decaf/util/Collection.h	3285
src/main/decaf/util/Comparator.h	3286
src/main/decaf/util/Config.h	2900
src/main/decaf/util/Date.h	3315
src/main/decaf/util/Iterator.h	3316
src/main/decaf/util/List.h	3317
src/main/decaf/util/ListIterator.h	3318
src/main/decaf/util/Map.h	3336
src/main/decaf/util/Properties.h	3337
src/main/decaf/util/Queue.h	3143
src/main/decaf/util/Random.h	3338
src/main/decaf/util/Set.h	3339
src/main/decaf/util/StlList.h	3340
src/main/decaf/util/StlMap.h	3341
src/main/decaf/util/StlQueue.h	3342
src/main/decaf/util/StlSet.h	3343
src/main/decaf/util/StringTokenizer.h	3344
src/main/decaf/util/UUID.h	3345
src/main/decaf/util/concurrent/BrokenBarrierException.h	3290
src/main/decaf/util/concurrent/Callable.h	3291
src/main/decaf/util/concurrent/CancellationException.h	3292
src/main/decaf/util/concurrent/Concurrent.h	3293
src/main/decaf/util/concurrent/ConcurrentMap.h	3294
src/main/decaf/util/concurrent/ConcurrentStlMap.h	3295
src/main/decaf/util/concurrent/CountDownLatch.h	3296
src/main/decaf/util/concurrent/Delayed.h	3297
src/main/decaf/util/concurrent/ExecutionException.h	3298
src/main/decaf/util/concurrent/Executor.h	3299
src/main/decaf/util/concurrent/Future.h	3300
src/main/decaf/util/concurrent/Lock.h	3301
src/main/decaf/util/concurrent/Mutex.h	3305
src/main/decaf/util/concurrent/PooledThread.h	3306
src/main/decaf/util/concurrent/PooledThreadListener.h	3307
src/main/decaf/util/concurrent/RejectedExecutionException.h	3308
src/main/decaf/util/concurrent/Synchronizable.h	3309
src/main/decaf/util/concurrent/TaskListener.h	3310
src/main/decaf/util/concurrent/ThreadFactory.h	3311
src/main/decaf/util/concurrent/ThreadPool.h	3312
src/main/decaf/util/concurrent/TimeoutException.h	3313
src/main/decaf/util/concurrent/TimeUnit.h	3314
src/main/decaf/util/concurrent/atomic/AtomicBoolean.h	3287
src/main/decaf/util/concurrent/atomic/AtomicInteger.h	3288
src/main/decaf/util/concurrent/atomic/AtomicReference.h	3289
src/main/decaf/util/concurrent/locks/Condition.h	3303
src/main/decaf/util/concurrent/locks/Lock.h	3302
src/main/decaf/util/concurrent/locks/ReadWriteLock.h	3304
src/main/decaf/util/logging/ConsoleHandler.h	3319
src/main/decaf/util/logging/Filter.h	3320
src/main/decaf/util/logging/Formatter.h	3321
src/main/decaf/util/logging/Handler.h	3322
src/main/decaf/util/logging/Logger.h	3323
src/main/decaf/util/logging/LoggerCommon.h	3324
src/main/decaf/util/logging/LoggerDefines.h	3325
src/main/decaf/util/logging/LoggerHierarchy.h	3327

src/main/decaf/util/logging/ LogManager.h	3328
src/main/decaf/util/logging/ LogRecord.h	3329
src/main/decaf/util/logging/ LogWriter.h	3330
src/main/decaf/util/logging/ MarkBlockLogger.h	3331
src/main/decaf/util/logging/ PropertiesChangeListener.h	3332
src/main/decaf/util/logging/ SimpleFormatter.h	3333
src/main/decaf/util/logging/ SimpleLogger.h	3334
src/main/decaf/util/logging/ StreamHandler.h	3335

Chapter 5

Namespace Documentation

5.1 activemq Namespace Reference

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Namespaces

- namespace **cmsutil**
- namespace **commands**
- namespace **core**
- namespace **exceptions**
- namespace **io**
- namespace **library**
- namespace **state**
- namespace **threads**
- namespace **transport**
- namespace **util**
- namespace **wireformat**

5.1.1 Detailed Description

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5.2 activemq::cmsutil Namespace Reference

Data Structures

- class **CachedConsumer**
A cached message consumer contained within a pooled session.
- class **CachedProducer**
A cached message producer contained within a pooled session.
- class **CmsAccessor**
Base class for `activemq.cmsutil.CmsTemplate` (p. 858) and other CMS-accessing gateway helpers, defining common properties such as the CMS `cms.ConnectionFactory` (p. 978) to operate on.
- class **CmsDestinationAccessor**
Extends the `CmsAccessor` (p. 843) to add support for resolving destination names.
- class **CmsTemplate**
`CmsTemplate` (p. 858) simplifies performing synchronous CMS operations.
- class **DestinationResolver**
Resolves a CMS destination name to a `Destination`.
- class **DynamicDestinationResolver**
Resolves a CMS destination name to a `Destination`.
- class **MessageCreator**
Creates the user-defined message to be sent by the `CmsTemplate` (p. 858).
- class **PooledSession**
A pooled session object that wraps around a delegate session.
- class **ProducerCallback**
Callback for sending a message to a CMS destination.
- class **ResourceLifecycleManager**
Manages the lifecycle of a set of CMS resources.
- class **SessionCallback**
Callback for executing any number of operations on a provided CMS Session.
- class **SessionPool**
A pool of CMS sessions from the same connection and with the same acknowledge mode.

5.3 activemq::commands Namespace Reference

Data Structures

- class **ActiveMQBlobMessage**
- class **ActiveMQBytesMessage**
- class **ActiveMQDestination**
- class **ActiveMQMapMessage**
- class **ActiveMQMessage**
- class **ActiveMQMessageTemplate**
- class **ActiveMQObjectMessage**
- class **ActiveMQQueue**
- class **ActiveMQStreamMessage**
- class **ActiveMQTempDestination**
- class **ActiveMQTempQueue**
- class **ActiveMQTempTopic**
- class **ActiveMQTextMessage**
- class **ActiveMQTopic**
- class **BaseCommand**
- class **BaseDataStructure**
- class **BooleanExpression**
- class **BrokerError**

This class represents an Exception sent from the Broker.

- class **BrokerId**
- class **BrokerInfo**
- class **Command**
- class **ConnectionControl**
- class **ConnectionError**
- class **ConnectionId**
- class **ConnectionInfo**
- class **ConsumerControl**
- class **ConsumerId**
- class **ConsumerInfo**
- class **ControlCommand**
- class **DataArrayResponse**
- class **DataResponse**
- class **DataStructure**
- class **DestinationInfo**
- class **DiscoveryEvent**
- class **ExceptionResponse**
- class **FlushCommand**
- class **IntegerResponse**
- class **JournalQueueAck**
- class **JournalTopicAck**
- class **JournalTrace**
- class **JournalTransaction**
- class **KeepAliveInfo**
- class **LastPartialCommand**
- class **LocalTransactionId**

- class **Message**
- class **MessageAck**
- class **MessageDispatch**
- class **MessageDispatchNotification**
- class **MessageId**
- class **MessagePull**
- class **NetworkBridgeFilter**
- class **PartialCommand**
- class **ProducerAck**
- class **ProducerId**
- class **ProducerInfo**
- class **RemoveInfo**
- class **RemoveSubscriptionInfo**
- class **ReplayCommand**
- class **Response**
- class **SessionId**
- class **SessionInfo**
- class **ShutdownInfo**
- class **SubscriptionInfo**
- class **TransactionId**
- class **TransactionInfo**
- class **WireFormatInfo**
- class **XATransactionId**

5.4 activemq::core Namespace Reference

Data Structures

- class **ActiveMQAckHandler**

Interface class that is used to give CMS Messages an interface to Ack themselves with.

- class **ActiveMQConnection**

Concrete connection used for all connectors to the ActiveMQ broker.

- class **ActiveMQConnectionFactory**

- class **ActiveMQConnectionMetaData**

*This class houses all the various settings and information that is used by an instance of an **ActiveMQConnection** (p. 190) class.*

- class **ActiveMQConnectionSupport**

- class **ActiveMQConstants**

Class holding constant values for various ActiveMQ specific things Each constant is defined as an enumeration and has functions that convert back and forth between string and enum values.

- class **ActiveMQConsumer**

- class **ActiveMQProducer**

- class **ActiveMQSession**

- class **ActiveMQSessionExecutor**

Delegate dispatcher for a single session.

- class **ActiveMQTransactionContext**

Transaction Management class, hold messages that are to be redelivered upon a request to roll-back.

- class **DispatchData**

Simple POJO that contains the information necessary to route a message to a specified consumer.

- class **Dispatcher**

Interface for an object responsible for dispatching messages to consumers.

- class **MessageDispatchChannel**

- class **Synchronization**

*Transacted Object **Synchronization** (p. 2516), used to sync the events of a Transaction with the items in the Transaction.*

5.5 activemq::exceptions Namespace Reference

Data Structures

- class **ActiveMQException**
- class **BrokerException**

5.6 activemq::io Namespace Reference

Data Structures

- class **LoggingInputStream**
- class **LoggingOutputStream**

OutputStream filter that just logs the data being written.

5.7 activemq::library Namespace Reference

Data Structures

- class `ActiveMQCPP`

5.8 activemq::state Namespace Reference

Data Structures

- class **CommandVisitor**

Interface for an Object that can visit the various Command Objects that are sent from and to this client.

- class **CommandVisitorAdapter**

*Default Implementation of a **CommandVisitor** (p. 885) that returns NULL for all calls.*

- class **ConnectionState**
- class **ConnectionStateTracker**
- class **ConsumerState**
- class **ProducerState**
- class **SessionState**
- class **Tracked**
- class **TransactionState**

5.9 activemq::threads Namespace Reference

Data Structures

- class **CompositeTask**

Represents a single task that can be part of a set of Tasks that are contained in a `CompositeTaskRunner` (p. 908).

- class **CompositeTaskRunner**

*A **Task** (p. 2520) Runner that can contain one or more `CompositeTasks` that are each checked for pending work and run if any is present in the order that the tasks were added.*

- class **DedicatedTaskRunner**

- class **Task**

Represents a unit of work that requires one or more iterations to complete.

- class **TaskRunner**

5.10 activemq::transport Namespace Reference

Namespaces

- namespace **correlator**
- namespace **failover**
- namespace **logging**
- namespace **mock**
- namespace **tcp**

Data Structures

- class **AbstractTransportFactory**
*Abstract implementation of the **TransportFactory** (p. 2614) interface, providing the base functionality that's common to most of the **TransportFactory** (p. 2614) instances.*
- class **CompositeTransport**
*A Composite **Transport** (p. 2608) is a **Transport** (p. 2608) implementation that is composed of several **Transports**.*
- class **DefaultTransportListener**
- class **IOTransport**
*Implementation of the **Transport** (p. 2608) interface that performs marshaling of **commands** (p. 59) to IO streams.*
- class **Transport**
*Interface for a **transport** (p. 67) layer for command objects.*
- class **TransportFactory**
*Defines the interface for **Factories** that create **Transports** or **TransportFilters**.*
- class **TransportFilter**
*A filter on the **transport** (p. 67) layer.*
- class **TransportListener**
*A listener of asynchronous **exceptions** (p. 62) from a command **transport** (p. 67) object.*
- class **TransportRegistry**
*Registry of all **Transport** (p. 2608) **Factories** that are available to the client at runtime.*

5.11 activemq::transport::correlator Namespace Reference

Data Structures

- class **FutureResponse**

A container that holds a response object.

- class **ResponseCorrelator**

*This type of **transport** (p. 67) filter is responsible for correlating asynchronous responses with requests.*

5.12 activemq::transport::failover Namespace Reference

Data Structures

- class **BackupTransport**
- class **BackupTransportPool**
- class **CloseTransportsTask**
- class **FailoverTransport**
- class **FailoverTransportFactory**

*Creates an instance of a **FailoverTransport** (p. 1296).*

- class **FailoverTransportListener**

*Utility class used by the **Transport** (p. 2608) to perform the work of responding to events from the active **Transport** (p. 2608).*

- class **URIPool**

5.13 activemq::transport::logging Namespace Reference

Data Structures

- class **LoggingTransport**

*A **transport** (p. 67) filter that logs **commands** (p. 59) as they are sent/received.*

5.14 activemq::transport::mock Namespace Reference

Data Structures

- class **InternalCommandListener**

*Listens for Commands sent from the **MockTransport** (p. 1910).*

- class **MockTransport**

*The **MockTransport** (p. 1910) defines a base level **Transport** (p. 2608) class that is intended to be used in place of an a regular protocol **Transport** (p. 2608) such as TCP.*

- class **MockTransportFactory**

Manufactures MockTransports, which are objects that read from input streams and write to output streams.

- class **ResponseBuilder**

Interface for all Protocols to implement that defines the behavior of the Broker in response to messages of that protocol.

5.15 activemq::transport::tcp Namespace Reference

Data Structures

- class **TcpTransport**

*Implements a TCP/IP based **transport** (p. 67) filter, this **transport** (p. 67) is meant to wrap an instance of an **IOTransport** (p. 1480).*

- class **TcpTransportFactory**

*Factory Responsible for creating the **TcpTransport** (p. 2532).*

5.16 activemq::util Namespace Reference

Data Structures

- class **ActiveMQProperties**

*Implementation of the CMSProperties interface that delegates to a **decaf::util::Properties** (p. 2140) object.*

- class **CompositeData**

Represents a Composite URI.

- class **LongSequenceGenerator**

This class is used to generate a sequence of long long values that are incremented each time a new value is requested.

- class **MemoryUsage**

- class **PrimitiveList**

List of primitives.

- class **PrimitiveMap**

Map of named primitives.

- class **PrimitiveValueConverter**

*Class controls the conversion of data contained in a **PrimitiveValueNode** (p. 2070) from one type to another.*

- class **PrimitiveValueNode**

Class that wraps around a single value of one of the many types.

- class **URISupport**

- class **Usage**

5.17 activemq::wireformat Namespace Reference

Namespaces

- namespace **openwire**
- namespace **stomp**

Data Structures

- class **MarshalAware**
- class **WireFormat**
*Provides a mechanism to marshal **commands** (p. 59) into and out of packets or into and out of streams, Channels and Datagrams.*
- class **WireFormatFactory**
*The **WireFormatFactory** (p. 2697) is the interface that all **WireFormatFactory** (p. 2697) classes must extend.*
- class **WireFormatNegotiator**
*Defines a **WireFormatNegotiator** (p. 2721) which allows a **WireFormat** (p. 2693) to.*
- class **WireFormatRegistry**
*Registry of all **WireFormat** (p. 2693) Factories that are available to the client at runtime.*

5.18 activemq::wireformat::openwire Namespace Reference

Namespaces

- namespace **marshal**
- namespace **utils**

Data Structures

- class **OpenWireFormat**
- class **OpenWireFormatFactory**
- class **OpenWireFormatNegotiator**
- class **OpenWireResponseBuilder**

5.19 activemq::wireformat::openwire::marshal Namespace Reference

Namespaces

- namespace **v1**
- namespace **v2**
- namespace **v3**

Data Structures

- class **BaseDataStreamMarshaller**
*Base class for all Marshallers that **marshal** (p. 76) DataStructures to and from the wire using the OpenWire protocol.*
- class **DataStreamMarshaller**
*Base class for all classes that **marshal** (p. 76) **commands** (p. 59) for Openwire.*
- class **PrimitiveTypesMarshaller**
*This class wraps the functionality needed to **marshal** (p. 76) a primitive map to the Openwire Format's expectation of what the map looks like on the wire.*

5.20 activemq:wireformat::openwire::marshal:v1 Namespace Reference

Data Structures

- class **ActiveMQBlobMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 155).*
- class **ActiveMQBytesMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 182).*
- class **ActiveMQDestinationMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 244).*
- class **ActiveMQMapMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 271).*
- class **ActiveMQMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 286).*
- class **ActiveMQObjectMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 317).*
- class **ActiveMQQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 345).*
- class **ActiveMQStreamMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 391).*
- class **ActiveMQTempDestinationMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 407).*
- class **ActiveMQTempQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 424).*
- class **ActiveMQTempTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 441).*
- class **ActiveMQTextMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 457).*
- class **ActiveMQTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 473).*
- class **BaseCommandMarshaller**
*Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 521).*
- class **BrokerIdMarshaller**

*Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 599).*

- class **BrokerInfoMarshaller**

*Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 619).*

- class **ConnectionControlMarshaller**

*Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 954).*

- class **ConnectionErrorMarshaller**

*Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p. 970).*

- class **ConnectionIdMarshaller**

*Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 989).*

- class **ConnectionInfoMarshaller**

*Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1007).*

- class **ConsumerControlMarshaller**

*Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p. 1037).*

- class **ConsumerIdMarshaller**

*Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p. 1054).*

- class **ConsumerInfoMarshaller**

*Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1074).*

- class **ControlCommandMarshaller**

*Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1087).*

- class **DataArrayResponseMarshaller**

*Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1108).*

- class **DataResponseMarshaller**

*Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1139).*

- class **DestinationInfoMarshaller**

*Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1203).*

- class **DiscoveryEventMarshaller**

*Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1221).*

- class **ExceptionResponseMarshaller**

*Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1283).*

- class **FlushCommandMarshaller**

*Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p. 1360).*

- class **IntegerResponseMarshaller**

*Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p. 1449).*

- class **JournalQueueAckMarshaller**
*Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p. 1499).*
- class **JournalTopicAckMarshaller**
*Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p. 1520).*
- class **JournalTraceMarshaller**
*Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1535).*
- class **JournalTransactionMarshaller**
*Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p. 1551).*
- class **KeepAliveInfoMarshaller**
*Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1566).*
- class **LastPartialCommandMarshaller**
*Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1582).*
- class **LocalTransactionIdMarshaller**
*Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p. 1612).*
- class **MarshallerFactory**
Used to create marshallers for a specific version of the wire protocol.
- class **MessageAckMarshaller**
*Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1791).*
- class **MessageDispatchMarshaller**
*Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1819).*
- class **MessageDispatchNotificationMarshaller**
*Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p. 1833).*
- class **MessageIdMarshaller**
*Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1848).*
- class **MessageMarshaller**
*Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1871).*
- class **MessagePullMarshaller**
*Marshaling code for Open Wire Format for **MessagePullMarshaller** (p. 1906).*
- class **NetworkBridgeFilterMarshaller**
*Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1935).*
- class **PartialCommandMarshaller**
*Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2007).*
- class **ProducerAckMarshaller**

*Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2094).*

- class **ProducerIdMarshaller**

*Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2118).*

- class **ProducerInfoMarshaller**

*Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2135).*

- class **RemoveInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2185).*

- class **RemoveSubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2206).*

- class **ReplayCommandMarshaller**

*Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2222).*

- class **ResponseMarshaller**

*Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2251).*

- class **SessionIdMarshaller**

*Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2288).*

- class **SessionInfoMarshaller**

*Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2304).*

- class **ShutdownInfoMarshaller**

*Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2356).*

- class **SubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2496).*

- class **TransactionIdMarshaller**

*Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2577).*

- class **TransactionInfoMarshaller**

*Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2602).*

- class **WireFormatInfoMarshaller**

*Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2717).*

- class **XATransactionIdMarshaller**

*Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2736).*

5.21 activemq:wireformat::openwire::marshal:v2 Namespace Reference

Data Structures

- class **ActiveMQBlobMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 159).*
- class **ActiveMQBytesMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 186).*
- class **ActiveMQDestinationMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 248).*
- class **ActiveMQMapMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 275).*
- class **ActiveMQMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 290).*
- class **ActiveMQObjectMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 321).*
- class **ActiveMQQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 349).*
- class **ActiveMQStreamMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 395).*
- class **ActiveMQTempDestinationMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 411).*
- class **ActiveMQTempQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 428).*
- class **ActiveMQTempTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 445).*
- class **ActiveMQTextMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 461).*
- class **ActiveMQTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 477).*
- class **BaseCommandMarshaller**
*Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 528).*
- class **BrokerIdMarshaller**

*Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 603).*

- class **BrokerInfoMarshaller**

*Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 623).*

- class **ConnectionControlMarshaller**

*Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 958).*

- class **ConnectionErrorMarshaller**

*Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p. 974).*

- class **ConnectionIdMarshaller**

*Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 993).*

- class **ConnectionInfoMarshaller**

*Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1011).*

- class **ConsumerControlMarshaller**

*Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p. 1041).*

- class **ConsumerIdMarshaller**

*Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p. 1058).*

- class **ConsumerInfoMarshaller**

*Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1078).*

- class **ControlCommandMarshaller**

*Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1095).*

- class **DataArrayResponseMarshaller**

*Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1112).*

- class **DataResponseMarshaller**

*Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1143).*

- class **DestinationInfoMarshaller**

*Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1207).*

- class **DiscoveryEventMarshaller**

*Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1225).*

- class **ExceptionResponseMarshaller**

*Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1287).*

- class **FlushCommandMarshaller**

*Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p. 1368).*

- class **IntegerResponseMarshaller**

*Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p. 1445).*

- class **JournalQueueAckMarshaller**
*Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p. 1495).*
- class **JournalTopicAckMarshaller**
*Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p. 1512).*
- class **JournalTraceMarshaller**
*Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1527).*
- class **JournalTransactionMarshaller**
*Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p. 1543).*
- class **KeepAliveInfoMarshaller**
*Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1562).*
- class **LastPartialCommandMarshaller**
*Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1586).*
- class **LocalTransactionIdMarshaller**
*Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p. 1604).*
- class **MarshallerFactory**
Used to create marshallers for a specific version of the wire protocol.
- class **MessageAckMarshaller**
*Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1783).*
- class **MessageDispatchMarshaller**
*Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1811).*
- class **MessageDispatchNotificationMarshaller**
*Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p. 1829).*
- class **MessageIdMarshaller**
*Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1856).*
- class **MessageMarshaller**
*Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1861).*
- class **MessagePullMarshaller**
*Marshaling code for Open Wire Format for **MessagePullMarshaller** (p. 1898).*
- class **NetworkBridgeFilterMarshaller**
*Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1931).*
- class **PartialCommandMarshaller**
*Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 1999).*
- class **ProducerAckMarshaller**

*Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2098).*

- class **ProducerIdMarshaller**

*Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2110).*

- class **ProducerInfoMarshaller**

*Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2127).*

- class **RemoveInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2181).*

- class **RemoveSubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2198).*

- class **ReplayCommandMarshaller**

*Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2214).*

- class **ResponseMarshaller**

*Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2241).*

- class **SessionIdMarshaller**

*Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2296).*

- class **SessionInfoMarshaller**

*Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2308).*

- class **ShutdownInfoMarshaller**

*Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2352).*

- class **SubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2504).*

- class **TransactionIdMarshaller**

*Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2585).*

- class **TransactionInfoMarshaller**

*Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2594).*

- class **WireFormatInfoMarshaller**

*Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2713).*

- class **XATransactionIdMarshaller**

*Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2744).*

5.22 activemq::wireformat::openwire::marshal::v3 Namespace Reference

Data Structures

- class **ActiveMQBlobMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 151).*
- class **ActiveMQBytesMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 178).*
- class **ActiveMQDestinationMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 240).*
- class **ActiveMQMapMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 267).*
- class **ActiveMQMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 282).*
- class **ActiveMQObjectMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 313).*
- class **ActiveMQQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 341).*
- class **ActiveMQStreamMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 387).*
- class **ActiveMQTempDestinationMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 403).*
- class **ActiveMQTempQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 420).*
- class **ActiveMQTempTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 437).*
- class **ActiveMQTextMessageMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 453).*
- class **ActiveMQTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 469).*
- class **BaseCommandMarshaller**
*Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 514).*
- class **BrokerIdMarshaller**

*Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 595).*

- class **BrokerInfoMarshaller**

*Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 615).*

- class **ConnectionControlMarshaller**

*Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 950).*

- class **ConnectionErrorMarshaller**

*Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p. 966).*

- class **ConnectionIdMarshaller**

*Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 985).*

- class **ConnectionInfoMarshaller**

*Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1003).*

- class **ConsumerControlMarshaller**

*Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p. 1033).*

- class **ConsumerIdMarshaller**

*Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p. 1050).*

- class **ConsumerInfoMarshaller**

*Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1070).*

- class **ControlCommandMarshaller**

*Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1091).*

- class **DataArrayResponseMarshaller**

*Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1104).*

- class **DataResponseMarshaller**

*Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1135).*

- class **DestinationInfoMarshaller**

*Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1199).*

- class **DiscoveryEventMarshaller**

*Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1217).*

- class **ExceptionResponseMarshaller**

*Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1279).*

- class **FlushCommandMarshaller**

*Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p. 1364).*

- class **IntegerResponseMarshaller**

*Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p. 1453).*

- class **JournalQueueAckMarshaller**
*Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p. 1503).*
- class **JournalTopicAckMarshaller**
*Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p. 1516).*
- class **JournalTraceMarshaller**
*Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1531).*
- class **JournalTransactionMarshaller**
*Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p. 1547).*
- class **KeepAliveInfoMarshaller**
*Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1558).*
- class **LastPartialCommandMarshaller**
*Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1578).*
- class **LocalTransactionIdMarshaller**
*Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p. 1608).*
- class **MarshallerFactory**
Used to create marshallers for a specific version of the wire protocol.
- class **MessageAckMarshaller**
*Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1787).*
- class **MessageDispatchMarshaller**
*Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1815).*
- class **MessageDispatchNotificationMarshaller**
*Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p. 1837).*
- class **MessageIdMarshaller**
*Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1852).*
- class **MessageMarshaller**
*Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1866).*
- class **MessagePullMarshaller**
*Marshaling code for Open Wire Format for **MessagePullMarshaller** (p. 1902).*
- class **NetworkBridgeFilterMarshaller**
*Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1927).*
- class **PartialCommandMarshaller**
*Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2003).*
- class **ProducerAckMarshaller**

*Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2090).*

- class **ProducerIdMarshaller**

*Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2114).*

- class **ProducerInfoMarshaller**

*Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2131).*

- class **RemoveInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2189).*

- class **RemoveSubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2202).*

- class **ReplayCommandMarshaller**

*Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2218).*

- class **ResponseMarshaller**

*Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2246).*

- class **SessionIdMarshaller**

*Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2292).*

- class **SessionInfoMarshaller**

*Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2312).*

- class **ShutdownInfoMarshaller**

*Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2360).*

- class **SubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2500).*

- class **TransactionIdMarshaller**

*Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2581).*

- class **TransactionInfoMarshaller**

*Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2598).*

- class **WireFormatInfoMarshaller**

*Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2709).*

- class **XATransactionIdMarshaller**

*Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2740).*

5.23 activemq::wireformat::openwire::utils Namespace Reference

Data Structures

- class **BooleanStream**

Manages the writing and reading of boolean data streams to and from a data source such as a `DataInputStream` or `DataOutputStream`.

- class **HexTable**

*The **HexTable** (p. 1388) class maps hexadecimal strings to the value of an index into the table, i.e.*

- class **MessagePropertyInterceptor**

Used the base `ActiveMQMessage` class to intercept calls to get and set properties in order to capture the calls that use the reserved JMS properties and get and set them in the `OpenWireMessage` properties.

- class **OpenwireStringSupport**

5.24 activemq::wireformat::stomp Namespace Reference

Data Structures

- class **StompCommandConstants**
- class **StompFrame**

A Stomp-level message frame that encloses all messages to and from the broker.

- class **StompHelper**

Utility Methods used when marshaling to and from StompFrame's.

- class **StompWireFormat**
- class **StompWireFormatFactory**

Factory used to create the Stomp Wire Format instance.

5.25 cms Namespace Reference

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Data Structures

- class **BytesMessage**

*A **BytesMessage** (p. 759) object is used to send a message containing a stream of unsigned bytes.*

- class **Closeable**

Interface for a class that implements the close method.

- class **CMSException**

CMS API Exception that is the base for all exceptions thrown from CMS classes.

- class **CMSProperties**

Interface for a Java-like properties object.

- class **CMSSecurityException**

This exception must be thrown when a provider rejects a user name/password submitted by a client.

- class **Connection**

The client's connection to its provider.

- class **ConnectionFactory**

*Defines the interface for a factory that creates connection objects, the **Connection** (p. 941) objects returned implement the CMS **Connection** (p. 941) interface and hide the CMS Provider specific implementation details behind that interface.*

- class **ConnectionMetaData**

*A **ConnectionMetaData** (p. 1015) object provides information describing the **Connection** (p. 941) object.*

- class **DeliveryMode**

This is an Abstract class whose purpose is to provide a container for the delivery mode enumeration for CMS messages.

- class **Destination**

*A **Destination** (p. 1190) object encapsulates a provider-specific address.*

- class **ExceptionListener**

*If a CMS provider detects a serious problem, it notifies the client application through an **ExceptionListener** (p. 1275) that is registered with the **Connection** (p. 941).*

- class **IllegalStateException**

This exception is thrown when a method is invoked at an illegal or inappropriate time or if the provider is not in an appropriate state for the requested operation.

- class **InvalidClientIdException**

This exception must be thrown when a client attempts to set a connection's client ID to a value that is rejected by a provider.

- class **InvalidDestinationException**

This exception must be thrown when a destination either is not understood by a provider or is no longer valid.

- class **InvalidSelectorException**

This exception must be thrown when a CMS client attempts to give a provider a message selector with invalid syntax.

- class **MapMessage**

*A **MapMessage** (p. 1701) object is used to send a set of name-value pairs.*

- class **Message**

Root of all messages.

- class **MessageConsumer**

*A client uses a **MessageConsumer** (p. 1795) to received messages from a destination.*

- class **MessageEOFException**

*This exception must be thrown when an unexpected end of stream has been reached when a **StreamMessage** (p. 2476) or **BytesMessage** (p. 759) is being read.*

- class **MessageFormatException**

This exception must be thrown when a CMS client attempts to use a data type not supported by a message or attempts to read data in a message as the wrong type.

- class **MessageListener**

*A **MessageListener** (p. 1860) object is used to receive asynchronously delivered messages.*

- class **MessageNotReadableException**

This exception must be thrown when a CMS client attempts to read a write-only message.

- class **MessageNotWriteableException**

This exception must be thrown when a CMS client attempts to write to a read-only message.

- class **MessageProducer**

*A client uses a **MessageProducer** (p. 1878) object to send messages to a **Destination** (p. 1190).*

- class **ObjectMessage**

Place holder for interaction with JMS systems that support Java, the C++ client is not responsible for deserializing the contained Object.

- class **Queue**

An interface encapsulating a provider-specific queue name.

- class **QueueBrowser**

*This class implements in interface for browsing the messages in a **Queue** (p. 2157) without removing them.*

- class **Session**
*A **Session** (p. 2270) object is a single-threaded context for producing and consuming messages.*
- class **Startable**
Interface for a class that implements the start method.
- class **Stoppable**
Interface for a class that implements the stop method.
- class **StreamMessage**
*Interface for a **StreamMessage** (p. 2476).*
- class **TemporaryQueue**
*Defines a Temporary **Queue** (p. 2157) based **Destination** (p. 1190).*
- class **TemporaryTopic**
*Defines a Temporary **Topic** (p. 2571) based **Destination** (p. 1190).*
- class **TextMessage**
Interface for a text message.
- class **Topic**
An interface encapsulating a provider-specific topic name.

5.25.1 Detailed Description

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5.26 decaf Namespace Reference

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Namespaces

- namespace **internal**
- namespace **io**
- namespace **lang**
- namespace **net**
- namespace **nio**
- namespace **security**
- namespace **security_provider**
- namespace **util**

5.26.1 Detailed Description

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5.27 decaf::internal Namespace Reference

Namespaces

- namespace **io**
- namespace **net**
- namespace **nio**
- namespace **util**

Data Structures

- class **AprPool**
*Wraps an APR pool object so that classes in **decaf** (p. 94) can create a static member for use in static methods where *apr* function calls that need a pool are made.*
- class **DecafRuntime**
Handles APR initialization and termination.

5.28 decaf::internal::io Namespace Reference

Data Structures

- class **StandardErrorOutputStream**

Wrapper Around the Standard error Output facility on the current platform.

- class **StandardInputStream**
- class **StandardOutputStream**

5.29 decaf::internal::net Namespace Reference

Data Structures

- class **URIEncoderDecoder**
- class **URIHelper**

Helper class used by the URI classes in encoding and decoding of URI's.

- class **URIType**

Basic type object that holds data that composes a given URI.

5.30 decaf::internal::nio Namespace Reference

Data Structures

- class **BufferFactory**

*Factory class used by static methods in the **decaf::nio** (p. 106) package to create the various default version of the NIO interfaces.*

- class **ByteBuffer**

This class defines six categories of operations upon byte buffers:.

- class **ByteArrayPerspective**

*This class extends **ByteArray** to create a reference counted byte array that can be held and used by several different **ByteBuffers** and allow them to know on destruction whose job it is to delete the perspective.*

- class **CharArrayBuffer**
- class **DoubleArrayBuffer**
- class **FloatArrayBuffer**
- class **IntArrayBuffer**
- class **LongArrayBuffer**
- class **ShortArrayBuffer**

5.31 decaf::internal::util Namespace Reference

Data Structures

- class **ByteArrayAdapter**

This class adapts primitive type arrays to a base byte array so that the classes can inter-operate on the same base byte array without copying data.

- class **HexStringParser**

5.32 decaf::io Namespace Reference

Data Structures

- class **BlockingByteArrayInputStream**
This is a blocking version of a byte buffer stream.
- class **BufferedInputStream**
*A wrapper around another input stream that performs a buffered read, where it reads more data than it needs in order to reduce the number of **io** (p. 100) operations on the input stream.*
- class **BufferedOutputStream**
Wrapper around another output stream that buffers output before writing to the target output stream.
- class **ByteArrayInputStream**
*Simple implementation of **InputStream** (p. 1406) that wraps around an STL Vector `std::vector<unsigned char>`.*
- class **ByteArrayOutputStream**
- class **Closeable**
Interface for a class that implements the close method.
- class **DataInputStream**
A data input stream lets an application read primitive Java data types from an underlying input stream in a machine-independent way.
- class **DataOutputStream**
A data output stream lets an application write primitive Java data types to an output stream in a portable way.
- class **EOFException**
- class **FilterInputStream**
*A **FilterInputStream** (p. 1315) contains some other input stream, which it uses as its basic source of data, possibly transforming the data along the way or providing additional functionality.*
- class **FilterOutputStream**
This class is the superclass of all classes that filter output streams.
- class **InputStream**
Base interface for an input stream.
- class **InterruptedIOException**
- class **IOException**
- class **OutputStream**
Base interface for an output stream.
- class **Reader**
- class **UTFDataFormatException**
Thrown from classes that attempt to read or write a UTF-8 encoded string and an encoding error is encountered.

- class **Writer**

5.33 decaf::lang Namespace Reference

Namespaces

- namespace **exceptions**

Data Structures

- class **Appendable**
- class **Boolean**
- class **Byte**
- class **Character**
- class **CharSequence**

*A **CharSequence** (p. 833) is a readable sequence of char values.*

- class **Comparable**

This interface imposes a total ordering on the objects of each class that implements it.

- class **Double**
- class **Exception**
- class **Float**
- class **Integer**
- class **Iterable**

*Implementing this interface allows an object to be cast to an **Iterable** (p. 1487) type for generic collections API calls.*

- class **Long**
- class **Math**

*The class **Math** (p. 1718) contains methods for performing basic numeric operations such as the elementary exponential, logarithm, square root, and trigonometric functions.*

- class **Number**

*The abstract class **Number** (p. 1954) is the superclass of classes **Byte** (p. 664), **Double** (p. 1231), **Float** (p. 1328), **Integer** (p. 1428), **Long** (p. 1652), and **Short** (p. 2321).*

- class **AtomicRefCounter**
- struct **STATIC_CAST_TOKEN**
- struct **DYNAMIC_CAST_TOKEN**
- class **Pointer**

*Decaf's implementation of a Smart **Pointer** (p. 2011) that is a template on a Type and is **Thread** (p. 2544) Safe if the default Reference Counter is used.*

- class **PointerComparator**

*This implementation of Comparator is designed to allows objects in a Collection to be sorted or tested for equality based on the value of the Object being Pointed to and not the value of the contained pointer in the **Pointer** (p. 2011) instance.*

- class **Runnable**

Interface for a runnable object - defines a task that can be run by a thread.

- class **Runtime**
- class **Short**
- class **System**
- class **Thread**

*Basic thread class - mimics the Java **Thread** (p. 2544).*

- class **Throwable**

This class represents an error that has occurred.

Functions

- template<typename T , typename R , typename U >
bool **operator**== (const **Pointer**< T, R > &left, const U *right)
- template<typename T , typename R , typename U >
bool **operator**== (const U *left, const **Pointer**< T, R > &right)
- template<typename T , typename R , typename U >
bool **operator**!= (const **Pointer**< T, R > &left, const U *right)
- template<typename T , typename R , typename U >
bool **operator**!= (const U *left, const **Pointer**< T, R > &right)

5.33.1 Function Documentation

5.33.1.1 template<typename T , typename R , typename U > bool
 decaf::lang::operator!= (const U * *left*, const **Pointer**< T, R > & *right*)
 [inline]

References decaf::lang::Pointer< T, REFCOUNTER >::get().

5.33.1.2 template<typename T , typename R , typename U > bool
 decaf::lang::operator!= (const **Pointer**< T, R > & *left*, const U * *right*)
 [inline]

References decaf::lang::Pointer< T, REFCOUNTER >::get().

5.33.1.3 template<typename T , typename R , typename U > bool
 decaf::lang::operator== (const U * *left*, const **Pointer**< T, R > & *right*)
 [inline]

References decaf::lang::Pointer< T, REFCOUNTER >::get().

5.33.1.4 template<typename T , typename R , typename U > bool
 decaf::lang::operator== (const **Pointer**< T, R > & *left*, const U * *right*)
 [inline]

References decaf::lang::Pointer< T, REFCOUNTER >::get().

5.34 decaf::lang::exceptions Namespace Reference

Data Structures

- class **ClassCastException**
- class **IllegalArgumentException**
- class **IllegalMonitorStateException**
- class **IllegalStateException**
- class **IndexOutOfBoundsException**
- class **InterruptedException**
- class **InvalidStateException**
- class **NoSuchElementException**
- class **NullPointerException**
- class **NumberFormatException**
- class **RuntimeException**
- class **UnsupportedOperationException**

5.35 decaf::net Namespace Reference

Data Structures

- class **BindException**
- class **BufferedSocket**

*Buffered **Socket** (p. 2371) class that wraps a **Socket** (p. 2371) derived object and provides Buffered input and Output Streams to improve the efficiency of the reads and writes.*

- class **ConnectException**
- class **HttpRetryException**
- class **MalformedURLErrorException**
- class **NoRouteToHostException**
- class **PortUnreachableException**
- class **ProtocolException**
- class **ServerSocket**

A server socket class (for testing purposes).

- class **Socket**
- class **SocketError**

Static utility class to simplify handling of error codes for socket operations.

- class **SocketException**

Exception for errors when manipulating sockets.

- class **SocketFactory**

***Socket** (p. 2371) Factory implementation for use in Creating Sockets.*

- class **SocketInputStream**

Input stream for performing reads on a socket.

- class **SocketOutputStream**

Output stream for performing write operations on a socket.

- class **SocketTimeoutException**
- class **TcpSocket**

Platform-independent implementation of the socket interface.

- class **UnknownHostException**
- class **UnknownServiceException**
- class **URI**

*This class represents an instance of a **URI** (p. 2638) as defined by RFC 2396.*

- class **URISyntaxException**
- class **URL**

*Class **URL** (p. 2677) represents a Uniform Resource Locator, a pointer to a "resource" on the World Wide Web.*

- class **URLDecoder**
- class **URLEncoder**

5.36 decaf::nio Namespace Reference

Data Structures

- class **Buffer**

A container for data of a specific primitive type.

- class **BufferOverflowException**
- class **BufferUnderflowException**
- class **ByteBuffer**

This class defines six categories of operations upon byte buffers:.

- class **CharBuffer**

This class defines four categories of operations upon character buffers:.

- class **DoubleBuffer**

This class defines four categories of operations upon double buffers:.

- class **FloatBuffer**

This class defines four categories of operations upon float buffers:.

- class **IntBuffer**

This class defines four categories of operations upon int buffers:.

- class **InvalidMarkException**

- class **LongBuffer**

This class defines four categories of operations upon long long buffers:.

- class **ReadOnlyBufferException**

- class **ShortBuffer**

This class defines four categories of operations upon short buffers:.

5.37 decaf::security Namespace Reference

Namespaces

- namespace **auth**
- namespace **cert**

Data Structures

- class **GeneralSecurityException**
- class **InvalidKeyException**
- class **Key**

*The **Key** (p. 1570) interface is the top-level interface for all keys.*

- class **KeyException**
- class **NoSuchAlgorithmException**
- class **NoSuchProviderException**
- class **Principal**

Base interface for a principal, which can represent an individual or organization.

- class **PublicKey**

A public key.

- class **SignatureException**

5.38 decaf::security::auth Namespace Reference

Namespaces

- namespace **x500**

5.39 decaf::security::auth::x500 Namespace Reference

Data Structures

- class **X500Principal**

5.40 decaf::security::cert Namespace Reference

Data Structures

- class **Certificate**
Base interface for all identity certificates.
- class **CertificateEncodingException**
- class **CertificateException**
- class **CertificateExpiredException**
- class **CertificateNotYetValidException**
- class **CertificateParsingException**
- class **X509Certificate**
Base interface for all identity certificates.

5.41 decaf::security_provider Namespace Reference

Namespaces

- namespace **unix**

Data Structures

- class **SecurityProvider**
- class **SecurityProviderMap**

Lookup Map for Connector Factories.

- class **SecurityProviderRegistrar**

Registers the passed in provider into the provider map, this class can manage the lifetime of the registered provider (default behaviour).

5.42 decaf::security_provider::unix Namespace Reference

Namespaces

- namespace `openssl`

5.43 decaf::security_provider::unix::openssl Namespace Reference

Data Structures

- class **OpenSSLX500Principal**
The `OpenSSLX500Principal` (p. 1961) wraps around an `OpenSSL X509_NAME` structure.
- class **OpenSSLX509Certificate**

5.44 decaf::util Namespace Reference

Namespaces

- namespace **concurrent**
- namespace **logging**

Data Structures

- class **AbstractCollection**

*This class provides a skeletal implementation of the **Collection** (p. 871) interface, to minimize the effort required to implement this interface.*

- class **AbstractList**

*This class provides a skeletal implementation of the **List** (p. 1591) interface to minimize the effort required to implement this interface backed by a "random access" data store (such as an array).*

- class **AbstractMap**

*This class provides a skeletal implementation of the **Map** (p. 1689) interface, to minimize the effort required to implement this interface.*

- class **AbstractQueue**

*This class provides skeletal implementations of some **Queue** (p. 2154) operations.*

- class **AbstractSequentialList**

*This class provides a skeletal implementation of the **List** (p. 1591) interface to minimize the effort required to implement this interface backed by a "sequential access" data store (such as a linked list).*

- class **AbstractSet**

*This class provides a skeletal implementation of the **Set** (p. 2320) interface to minimize the effort required to implement this interface.*

- class **Collection**

The root interface in the collection hierarchy.

- class **Comparator**

A comparison function, which imposes a total ordering on some collection of objects.

- class **Date**

Wrapper class around a time value in milliseconds.

- class **Iterator**

Defines an object that can be used to iterate over the elements of a collection.

- class **List**

An ordered collection (also known as a sequence).

- class **ListIterator**

An iterator for lists that allows the programmer to traverse the list in either direction, modify the list during iteration, and obtain the iterator's current position in the list.

- class **Map**

***Map** (p. 1689) template that wraps around a `std::map` to provide a more user-friendly interface and to provide common functions that do not exist in `std::map`.*

- class **Properties**

Java-like properties class for mapping string names to string values.

- class **Queue**

A kind of collection provides advanced operations than other basic collections, such as insertion, extraction, and inspection.

- class **Random**

***Random** (p. 2160) Value Generator which is used to generate a stream of pseudorandom numbers.*

- class **Set**

A collection that contains no duplicate elements.

- class **StlList**

***List** (p. 1591) class that wraps the STL list object to provide a simpler interface and additional methods not provided by the STL type.*

- class **StlMap**

***Map** (p. 1689) template that wraps around a `std::map` to provide a more user-friendly interface and to provide common functions that do not exist in `std::map`.*

- class **StlQueue**

*The **Queue** (p. 2154) class accepts messages with an `psuh(m)` command where `m` is the message to be queued.*

- class **StlSet**

***Set** (p. 2320) template that wraps around a `std::set` to provide a more user-friendly interface and to provide common functions that do not exist in `std::set`.*

- class **StringTokenizer**

- class **UUID**

*A class that represents an immutable universally unique identifier (**UUID** (p. 2686)).*

5.45 decaf::util::concurrent Namespace Reference

Namespaces

- namespace **atomic**
- namespace **locks**

Data Structures

- class **BrokenBarrierException**
- class **Callable**
- class **CancellationException**
- class **ConcurrentMap**

*Interface for a **Map** (p. 1689) type that provides additional **atomic** (p. 118) **putIfAbsent**, **remove**, and **replace** methods alongside the already available **Map** (p. 1689) interface.*

- class **ConcurrentStlMap**

***Map** (p. 1689) template that wraps around a **std::map** to provide a more user-friendly interface and to provide common functions that do not exist in **std::map**.*

- class **CountDownLatch**
- class **Delayed**

A mix-in style interface for marking objects that should be acted upon after a given delay.

- class **ExecutionException**
- class **Executor**

*An object that executes submitted **decaf.lang Runnable** (p. 2256) tasks.*

- class **Future**

*A **Future** (p. 1374) represents the result of an asynchronous computation.*

- class **Lock**

A wrapper class around a given synchronization mechanism that provides automatic release upon destruction.

- class **Mutex**

*Creates a **pthread_mutex_t** object.*

- class **PooledThread**
- class **PooledThreadListener**

*Abstract Listener Interface for users of **ThreadPool** (p. 2549).*

- class **RejectedExecutionException**
- class **Synchronizable**

The interface for all synchronizable objects (that is, objects that can be locked and unlocked).

- class **TaskListener**
- class **ThreadFactory**

*public interface **ThreadFactory** (p. 2547)*

- class **ThreadPool**

Defines a Thread Pool object that implements the functionality of pooling threads to perform user tasks.

- class **TimeoutException**
- class **TimeUnit**

*A **TimeUnit** (p. 2562) represents time durations at a given unit of granularity and provides utility methods to convert across units, and to perform timing and delay operations in these units.*

5.46 decaf::util::concurrent::atomic Namespace Reference

Data Structures

- class **AtomicBoolean**
A boolean value that may be updated atomically.
- class **AtomicInteger**
An int value that may be updated atomically.
- class **AtomicReference**
An Pointer reference that may be updated atomically.

5.47 decaf::util::concurrent::locks Namespace Reference

Data Structures

- class **Condition**

***Condition** (p. 932) factors out the **Mutex** (p. 1921) monitor methods (wait, notify and notifyAll) into distinct objects to give the effect of having multiple wait-sets per object, by combining them with the use of arbitrary **Lock** (p. 1618) implementations.*

- class **Lock**

***Lock** (p. 1618) implementations provide more extensive locking operations than can be obtained using synchronized statements.*

- class **ReadWriteLock**

*A **ReadWriteLock** (p. 2170) maintains a pair of associated **locks** (p. 119), one for read-only operations and one for writing.*

5.48 decaf::util::logging Namespace Reference

Data Structures

- class **Filter**

A **Filter** (p. 1314) can be used to provide fine grain control over what is logged, beyond the control provided by log levels.

- class **Formatter**

A **Formatter** (p. 1372) provides support for formatting *LogRecords*.

- class **Handler**

A **Handler** (p. 1382) object takes log messages from a **Logger** (p. 1623) and exports them.

- class **Logger**

- class **LoggerHierarchy**

- class **LogManager**

There is a single global **LogManager** (p. 1640) object that is used to maintain a set of shared state about *Loggers* and log services.

- class **LogRecord**

- class **LogWriter**

- class **MarkBlockLogger**

Defines a class that can be used to mark the entry and exit from scoped blocks.

- class **PropertiesChangeListener**

Defines the interface that classes can use to listen for change events on **Properties** (p. 2140).

- class **SimpleFormatter**

Print a brief summary of the **LogRecord** (p. 1645) in a human readable format.

- class **SimpleLogger**

- class **StreamHandler**

Enumerations

- enum **Level** {

Off, **Null**, **Markblock**, **Debug**,

Info, **Warn**, **Error**, **Fatal**,

Throwing }

Defines an enumeration for logging levels.

5.48.1 Enumeration Type Documentation

5.48.1.1 enum decaf::util::logging::Level

Defines an enumeration for **logging** (p. 120) levels.

Enumerator:

Off

Null

Markblock

Debug

Info

Warn

Error

Fatal

Throwing

5.49 std Namespace Reference

Data Structures

- struct `less< decaf::lang::Pointer< T > >`

An override of the less function object so that the Pointer objects can be stored in STL Maps, etc.

Chapter 6

Data Structure Documentation

6.1 decaf::util::AbstractCollection< E > Class Template Reference

This class provides a skeletal implementation of the **Collection** (p. 871) interface, to minimize the effort required to implement this interface.

#include <src/main/decaf/util/AbstractCollection.h> Inheritance diagram for decaf::util::AbstractCollection< E >:

Public Member Functions

- virtual ~**AbstractCollection** ()
- **AbstractCollection**< E > & **operator=** (const **AbstractCollection**< E > &collection)
Assignment Operator, copy element from the source collection to this collection after clearing any element stored in this collection.
- virtual bool **add** (const E &value DECAF_UNUSED)
throw (lang::exceptions::UnsupportedOperationException,
lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException)
Ensures that this collection contains the specified element (optional operation).
- virtual bool **addAll** (const **Collection**< E > &collection)
throw (lang::exceptions::UnsupportedOperationException,
lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException)
Adds all of the elements in the specified collection to this collection (optional operation).
- virtual void **clear** () throw (lang::exceptions::UnsupportedOperationException)
Removes all of the elements from this collection (optional operation).
- virtual void **copy** (const **Collection**< E > &collection)
*Renders this **Collection** (p. 871) as a Copy of the given **Collection** (p. 871).*

- virtual bool **contains** (const E &value) const throw (lang::Exception)
Returns true if this collection contains the specified element.
- virtual bool **containsAll** (const **Collection**< E > &collection) const throw (lang::Exception)
Returns true if this collection contains all of the elements in the specified collection.
- virtual bool **equals** (const **Collection**< E > &collection) const
*Answers true if this **Collection** (p. 871) and the one given are the same size and if each element contained in the **Collection** (p. 871) given is equal to an element contained in this collection.*
- virtual bool **isEmpty** () const
Returns true if this collection contains no elements.
- virtual bool **remove** (const E &value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)
Removes a single instance of the specified element from this collection, if it is present (optional operation).
- virtual bool **removeAll** (const **Collection**< E > &collection) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)
Removes all of this collection's elements that are also contained in the specified collection (optional operation).
- virtual bool **retainAll** (const **Collection**< E > &collection) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)
Retains only the elements in this collection that are contained in the specified collection (optional operation).
- virtual std::vector< E > **toArray** () const
*Answers an STL vector containing copies of all elements contained in this **Collection** (p. 871).*
- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

Protected Attributes

- `util::concurrent::Mutex mutex`

6.1.1 Detailed Description

`template<typename E> class decaf::util::AbstractCollection< E >`

This class provides a skeletal implementation of the **Collection** (p. 871) interface, to minimize the effort required to implement this interface. To implement an unmodifiable collection, the programmer needs only to extend this class and provide implementations for the iterator and size methods. (The iterator returned by the iterator method must implement `hasNext` and `next`.)

To implement a modifiable collection, the programmer must additionally override this class's `add` method (which otherwise throws an `UnsupportedOperationException`), and the iterator returned by the iterator method must additionally implement its `remove` method.

The programmer should generally provide a void (no argument) and **Collection** (p. 871) constructor, as per the recommendation in the **Collection** (p. 871) interface specification.

The documentation for each non-abstract method in this class describes its implementation in detail. Each of these methods may be overridden if the collection being implemented admits a more efficient implementation.

Since:

1.0

6.1.2 Constructor & Destructor Documentation

6.1.2.1 `template<typename E> virtual decaf::util::AbstractCollection< E >::~~AbstractCollection () [inline, virtual]`

6.1.3 Member Function Documentation

6.1.3.1 `template<typename E> virtual bool decaf::util::AbstractCollection< E >::add (const E &value DECAF_UNUSED) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException) [inline, virtual]`

Ensures that this collection contains the specified element (optional operation). Returns true if this collection changed as a result of the call. (Returns false if this collection does not permit duplicates and already contains the specified element.)

Collections that support this operation may place limitations on what elements may be added to this collection. **Collection** (p. 871) classes should clearly specify in their documentation any restrictions on what elements may be added.

If a collection refuses to add a particular element for any reason other than that it already contains the element, it must throw an exception (rather than returning false). This preserves the invariant that a collection always contains the specified element after this call returns.

This implementation always throws an `UnsupportedOperationException`.

Parameters:

value - The element that must be ensured to be in this collection.

Returns:

true if the collection was changed as a result of this call.

Exceptions:

UnsupportedOperationException if the add operation is not supported by this collection

IllegalArgumentException if some property of the element prevents it from being added to this collection

IllegalStateException if the element cannot be added at this time due to insertion restrictions

Referenced by `decaf::util::AbstractCollection< Pointer< BackupTransport > >::addAll()`, `decaf::util::AbstractCollection< Pointer< BackupTransport > >::copy()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::operator=()`.

```
6.1.3.2  template<typename E> virtual bool decaf::util::AbstractCollection<
        E >::addAll (const Collection< E > & collection) throw
        ( lang::exceptions::UnsupportedOperationException,
          lang::exceptions::IllegalArgumentException,
          lang::exceptions::IllegalStateException ) [inline,
          virtual]
```

Adds all of the elements in the specified collection to this collection (optional operation). The behavior of this operation is undefined if the specified collection is modified while the operation is in progress. (This implies that the behavior of this call is undefined if the specified collection is this collection, and this collection is nonempty.)

This implementation iterates over the specified collection, and adds each object returned by the iterator to this collection, in turn.

Note that this implementation will throw an `UnsupportedOperationException` unless `add` is overridden (assuming the specified collection is non-empty).

Parameters:

collection - The **Collection** (p. 871) whose elements are to be added to this **Collection** (p. 871).

Returns:

true if the collection was changed as a result of this call.

Exceptions:

UnsupportedOperationException if the `addAll` operation is not supported by this collection

IllegalArgumentException if some property of the element prevents it from being added to this collection

IllegalStateException if the element cannot be added at this time due to insertion restrictions

Reimplemented in `decaf::util::AbstractQueue< E >` (p. 137).

6.1.3.3 `template<typename E> virtual void decaf::util::AbstractCollection< E >::clear () throw (lang::exceptions::UnsupportedOperationException)`
`[inline, virtual]`

Removes all of the elements from this collection (optional operation). The collection will be empty after this method returns.

This implementation iterates over this collection, removing each element using the **Iterator.remove** (p.1490) operation. Most implementations will probably choose to override this method for efficiency.

Note that this implementation will throw an `UnsupportedOperationException` if the iterator returned by this collection's iterator method does not implement the remove method and this collection is non-empty.

Exceptions:

UnsupportedOperationException if the clear operation is not supported by this collection

Implements `decaf::util::Collection< E >` (p. 874).

Reimplemented in `decaf::util::AbstractQueue< E >` (p.138), `decaf::util::StlList< E >` (p. 2423), `decaf::util::StlSet< E >` (p. 2449), `decaf::util::StlList< CompositeTask * >` (p. 2423), `decaf::util::StlList< URI >` (p. 2423), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2423), `decaf::util::StlList< PrimitiveValueNode >` (p. 2423), `decaf::util::StlList< Pointer< Command > >` (p. 2423), `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2423), `decaf::util::StlSet< Pointer< Synchronization > >` (p. 2449), and `decaf::util::StlSet< ActiveMQSession * >` (p. 2449).

Referenced by `decaf::util::AbstractCollection< Pointer< BackupTransport > >::copy()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::operator=()`.

6.1.3.4 `template<typename E> virtual bool decaf::util::AbstractCollection< E >::contains (const E & value) const throw (lang::Exception)`
`[inline, virtual]`

Returns true if this collection contains the specified element. This implementation iterates over the elements in the collection, checking each element in turn for equality with the specified element.

Parameters:

value - the value whose presence is to be queried for in this **Collection** (p. 871).

Returns:

true if the value is contained in this collection

Exceptions:

Exception if an error occurs,

Implements `decaf::util::Collection< E >` (p. 875).

Reimplemented in `decaf::util::StlList< E >` (p. 2423), `decaf::util::StlSet< E >` (p. 2450), `decaf::util::StlList< CompositeTask * >` (p. 2423), `decaf::util::StlList< URI >` (p. 2423), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2423), `decaf::util::StlList< PrimitiveValueNode >` (p. 2423), `decaf::util::StlList< Pointer< Command > >` (p. 2423),

`decaf::util::StlList< Pointer< BackupTransport > >` (p. 2423), `decaf::util::StlSet< Pointer< Synchronization > >` (p. 2450), and `decaf::util::StlSet< ActiveMQSession * >` (p. 2450).

Referenced by `decaf::util::AbstractCollection< Pointer< BackupTransport > >::containsAll()`.

6.1.3.5 `template<typename E> virtual bool decaf::util::AbstractCollection< E >::containsAll (const Collection< E > & collection) const throw (lang::Exception) [inline, virtual]`

Returns true if this collection contains all of the elements in the specified collection. This implementation iterates over the specified collection, checking each element returned by the iterator in turn to see if it's contained in this collection. If all elements are so contained true is returned, otherwise false.

Parameters:

collection collection to be checked for containment in this collection

Returns:

true if this collection contains all of the elements in the specified collection.

Exceptions:

Exception if an error occurs,

Referenced by `decaf::util::AbstractCollection< Pointer< BackupTransport > >::equals()`.

6.1.3.6 `template<typename E> virtual void decaf::util::AbstractCollection< E >::copy (const Collection< E > & collection) [inline, virtual]`

Renders this **Collection** (p. 871) as a Copy of the given **Collection** (p. 871). This implementation iterates over the contents of the given collection adding each to this collection after first calling this Collection's clear method.

Parameters:

collection - the collection to mirror.

6.1.3.7 `template<typename E> virtual bool decaf::util::AbstractCollection< E >::equals (const Collection< E > & collection) const [inline, virtual]`

Answers true if this **Collection** (p. 871) and the one given are the same size and if each element contained in the **Collection** (p. 871) given is equal to an element contained in this collection.

Parameters:

collection - The **Collection** (p. 871) to be compared to this one.

Returns:

true if this **Collection** (p. 871) is equal to the one given.

6.1.3.8 `template<typename E> virtual bool decaf::util::AbstractCollection< E >::isEmpty () const [inline, virtual]`

Returns true if this collection contains no elements. This implementation returns `size()` (p. 878) `== 0`.

Returns:

true if the size method return 0.

Implements `decaf::util::Collection< E >` (p. 876).

Reimplemented in `decaf::util::StlList< E >` (p. 2425), `decaf::util::StlSet< E >` (p. 2450), `decaf::util::StlList< CompositeTask * >` (p. 2425), `decaf::util::StlList< URI >` (p. 2425), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2425), `decaf::util::StlList< PrimitiveValueNode >` (p. 2425), `decaf::util::StlList< Pointer< Command > >` (p. 2425), `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2425), `decaf::util::StlSet< Pointer< Synchronization > >` (p. 2450), and `decaf::util::StlSet< ActiveMQSession * >` (p. 2450).

6.1.3.9 `template<typename E> virtual void decaf::util::AbstractCollection< E >::lock () throw (lang::Exception) [inline, virtual]`

Locks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2508).

6.1.3.10 `template<typename E> virtual void decaf::util::AbstractCollection< E >::notify () throw (lang::Exception) [inline, virtual]`

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2510).

6.1.3.11 `template<typename E> virtual void decaf::util::AbstractCollection< E >::notifyAll () throw (lang::Exception) [inline, virtual]`

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2511).

6.1.3.12 `template<typename E> AbstractCollection<E>&
decaf::util::AbstractCollection< E >::operator= (const
AbstractCollection< E > & collection) [inline]`

Assignment Operator, copy element from the source collection to this collection after clearing any element stored in this collection.

Parameters:

collection - the collection to copy

Returns:

a reference to this collection

6.1.3.13 `template<typename E> virtual bool decaf::util::AbstractCollection<
E >::remove (const E & value) throw (
lang::exceptions::UnsupportedOperationException,
lang::exceptions::IllegalArgumentException) [inline, virtual]`

Removes a single instance of the specified element from this collection, if it is present (optional operation). More formally, removes the first element *e* such that *e* == *o*, if this collection contains one or more such elements. Returns true if this collection contained the specified element (or equivalently, if this collection changed as a result of the call).

This implementation iterates over the collection looking for the specified element. If it finds the element, it removes the element from the collection using the iterator's remove method.

Note that this implementation throws an `UnsupportedOperationException` if the iterator returned by this collection's iterator method does not implement the remove method and this collection contains the specified object.

Parameters:

value - element to be removed from this collection, if present

Returns:

true if an element was removed as a result of this call

Exceptions:

UnsupportedOperationException if the remove operation is not supported by this collection.

IllegalArgumentException If the value is not a valid entry for this **Collection** (p. 871).

Implements `decaf::util::Collection< E >` (p. 876).

Reimplemented in `decaf::util::StlList< E >` (p. 2427), `decaf::util::StlSet< E >` (p. 2451), `decaf::util::StlList< CompositeTask * >` (p. 2427), `decaf::util::StlList< URI >` (p. 2427), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2427), `decaf::util::StlList< PrimitiveValueNode >` (p. 2427), `decaf::util::StlList< Pointer< Command > >` (p. 2427), `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2427), `decaf::util::StlSet< Pointer< Synchronization > >` (p. 2451), and `decaf::util::StlSet< ActiveMQSession * >` (p. 2451).


```

6.1.3.14  template<typename E> virtual bool decaf::util::AbstractCollection<
            E >::removeAll (const Collection< E > & collection)
            throw ( lang::exceptions::UnsupportedOperationException,
                    lang::exceptions::IllegalArgumentException ) [inline, virtual]

```

Removes all of this collection's elements that are also contained in the specified collection (optional operation). After this call returns, this collection will contain no elements in common with the specified collection.

This implementation iterates over this collection, checking each element returned by the iterator in turn to see if it's contained in the specified collection. If it's so contained, it's removed from this collection with the iterator's remove method.

Note that this implementation will throw an `UnsupportedOperationException` if the iterator returned by the iterator method does not implement the remove method and this collection contains one or more elements in common with the specified collection.

Parameters:

collection - collection containing elements to be removed from this collection

Returns:

true if this collection changed as a result of the call

Exceptions:

UnsupportedOperationException if the remove operation is not supported by this collection

IllegalArgumentException.

Reimplemented in `decaf::util::AbstractSet< E >` (p. 141), `decaf::util::AbstractSet< Pointer< Synchronization > >` (p. 141), and `decaf::util::AbstractSet< ActiveMQSession * >` (p. 141).

```

6.1.3.15  template<typename E> virtual bool decaf::util::AbstractCollection<
            E >::retainAll (const Collection< E > & collection)
            throw ( lang::exceptions::UnsupportedOperationException,
                    lang::exceptions::IllegalArgumentException ) [inline, virtual]

```

Retains only the elements in this collection that are contained in the specified collection (optional operation). In other words, removes from this collection all of its elements that are not contained in the specified collection.

This implementation iterates over this collection, checking each element returned by the iterator in turn to see if it's contained in the specified collection. If it's not so contained, it's removed from this collection with the iterator's remove method.

Note that this implementation will throw an `UnsupportedOperationException` if the iterator returned by the iterator method does not implement the remove method and this collection contains one or more elements not present in the specified collection.

Parameters:

collection - collection containing elements to be retained in this collection

Returns:

true if this collection changed as a result of the call

Exceptions:

UnsupportedOperationException if the remove operation is not supported by this collection

IllegalArgumentException.

6.1.3.16 `template<typename E> virtual std::vector<E>
decaf::util::AbstractCollection< E >::toArray () const [inline, virtual]`

Answers an STL vector containing copies of all elements contained in this **Collection** (p. 871). All the elements in the array will not be referenced by the collection. The elements in the returned array will be sorted to the same order as those returned by the iterator of this collection itself if the collection guarantees the order.

Returns:

an vector of copies of all the elements from this **Collection** (p. 871)

Implements `decaf::util::Collection< E >` (p. 878).

6.1.3.17 `template<typename E> virtual void decaf::util::AbstractCollection< E
>::unlock () throw (lang::Exception) [inline, virtual]`

Unlocks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2512).

6.1.3.18 `template<typename E> virtual void decaf::util::AbstractCollection< E
>::wait (unsigned long milliseconds) throw (lang::Exception) [inline,
virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2513).

6.1.3.19 `template<typename E> virtual void decaf::util::AbstractCollection< E >::wait () throw (lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2514).

6.1.4 Field Documentation

6.1.4.1 `template<typename E> util::concurrent::Mutex decaf::util::AbstractCollection< E >::mutex [mutable, protected]`

Referenced by `decaf::util::AbstractCollection< Pointer< BackupTransport > >::lock()`, `decaf::util::AbstractCollection< Pointer< BackupTransport > >::notify()`, `decaf::util::AbstractCollection< Pointer< BackupTransport > >::notifyAll()`, `decaf::util::AbstractCollection< Pointer< BackupTransport > >::unlock()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::wait()`.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/AbstractCollection.h`

6.2 decaf::util::AbstractList< E > Class Template Reference

This class provides a skeletal implementation of the **List** (p. 1591) interface to minimize the effort required to implement this interface backed by a "random access" data store (such as an array).

#include <src/main/decaf/util/AbstractList.h> Inheritance diagram for decaf::util::AbstractList< E >:

Public Member Functions

- virtual ~**AbstractList** ()

6.2.1 Detailed Description

template<typename E> class decaf::util::AbstractList< E >

This class provides a skeletal implementation of the **List** (p. 1591) interface to minimize the effort required to implement this interface backed by a "random access" data store (such as an array). For sequential access data (such as a linked list), **AbstractSequentialList** (p. 140) should be used in preference to this class.

To implement an unmodifiable list, the programmer needs only to extend this class and provide implementations for the `get(int)` and `size()` (p. 878) methods.

To implement a modifiable list, the programmer must additionally override the `set(int, E)` method (which otherwise throws an `UnsupportedOperationException`). If the list is variable-size the programmer must additionally override the `add(int, E)` and `remove(int)` methods.

The programmer should generally provide a void (no argument) and collection constructor, as per the recommendation in the **Collection** (p. 871) interface specification.

Unlike the other abstract collection implementations, the programmer does not have to provide an iterator implementation; the iterator and list iterator are implemented by this class, on top of the "random access" methods: `get(int)`, `set(int, E)`, `add(int, E)` and `remove(int)`.

The documentation for each non-abstract method in this class describes its implementation in detail. Each of these methods may be overridden if the collection being implemented admits a more efficient implementation.

Since:

1.0

6.2.2 Constructor & Destructor Documentation

6.2.2.1 template<typename E > virtual decaf::util::AbstractList< E >::~~AbstractList () [inline, virtual]

The documentation for this class was generated from the following file:

- src/main/decaf/util/**AbstractList.h**

6.3 decaf::util::AbstractMap< K, V, COMPARATOR > Class Template Reference

This class provides a skeletal implementation of the **Map** (p.1689) interface, to minimize the effort required to implement this interface.

#include <src/main/decaf/util/AbstractMap.h> Inheritance diagram for decaf::util::AbstractMap< K, V, COMPARATOR >:

Public Member Functions

- virtual ~AbstractMap ()

6.3.1 Detailed Description

template<typename K, typename V, typename COMPARATOR> class decaf::util::AbstractMap< K, V, COMPARATOR >

This class provides a skeletal implementation of the **Map** (p.1689) interface, to minimize the effort required to implement this interface. To implement an unmodifiable map, the programmer needs only to extend this class and provide an implementation for the entrySet method, which returns a set-view of the map's mappings. Typically, the returned set will, in turn, be implemented atop **AbstractSet** (p.141). This set should not support the add or remove methods, and its iterator should not support the remove method.

To implement a modifiable map, the programmer must additionally override this class's put method (which otherwise throws an UnsupportedOperationException), and the iterator returned by entrySet().iterator() must additionally implement its remove method.

The programmer should generally provide a void (no argument) and map constructor, as per the recommendation in the **Map** (p.1689) interface specification.

The documentation for each non-abstract method in this class describes its implementation in detail. Each of these methods may be overridden if the map being implemented admits a more efficient implementation.

Since:

1.0

6.3.2 Constructor & Destructor Documentation

6.3.2.1 template<typename K , typename V , typename COMPARATOR > virtual decaf::util::AbstractMap< K, V, COMPARATOR >::~~AbstractMap () [inline, virtual]

The documentation for this class was generated from the following file:

- src/main/decaf/util/AbstractMap.h

6.4 decaf::util::AbstractQueue< E > Class Template Reference

This class provides skeletal implementations of some **Queue** (p.2154) operations.

```
#include <src/main/decaf/util/AbstractQueue.h> Inheritance diagram for
decaf::util::AbstractQueue< E >:
```

Public Member Functions

- **AbstractQueue** ()
- virtual **~AbstractQueue** ()
- virtual bool **add** (const E &value) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IllegalArgumentException)

Inserts the specified element into this queue if it is possible to do so immediately without violating capacity restrictions, returning true upon success and throwing an IllegalStateException if no space is currently available.

- virtual bool **addAll** (const **Collection**< E > &collection) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)

Adds all the elements of a collection to the queue.

- virtual E **remove** () throw (decaf::lang::exceptions::NoSuchElementException)

Retrieves and removes the head of this queue.

- virtual const E & **element** () const throw (decaf::lang::exceptions::NoSuchElementException)

Retrieves, but does not remove, the head of this queue.

- virtual void **clear** () throw (lang::exceptions::UnsupportedOperationException)

Removes all elements of the queue.

6.4.1 Detailed Description

```
template<typename E> class decaf::util::AbstractQueue< E >
```

This class provides skeletal implementations of some **Queue** (p.2154) operations. Methods add, remove, and element are based on offer, poll, and peek, respectively but throw exceptions instead of indicating failure via false or null returns.

A **Queue** (p. 2154) implementation that extends this class must minimally define a method **Queue** (p.2154). **offer(E)** which does not permit insertion of null elements, along with methods **Queue** (p.2154). **peek()** (p.2156), **Queue.poll()** (p.2156), **Collection.size()** (p.878), and a **Collection.iterator()** (p.1487) supporting **Iterator.remove()** (p.1490). Typically, additional methods will be overridden as well. If these requirements cannot be met, consider instead subclassing **AbstractCollection** (p.123).

Since:

1.0

6.4.2 Constructor & Destructor Documentation

6.4.2.1 `template<typename E > decaf::util::AbstractQueue< E >::AbstractQueue()` [inline]

6.4.2.2 `template<typename E > virtual decaf::util::AbstractQueue< E >::~~AbstractQueue()` [inline, virtual]

6.4.3 Member Function Documentation

6.4.3.1 `template<typename E > virtual bool decaf::util::AbstractQueue< E >::add (const E & value) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IllegalArgumentException)` [inline, virtual]

Inserts the specified element into this queue if it is possible to do so immediately without violating capacity restrictions, returning true upon success and throwing an `IllegalStateException` if no space is currently available. This implementation returns true if offer succeeds, else throws an `IllegalStateException`.

Parameters:

value - the element to offer to the **Queue** (p. 2154).

Returns:

true if the add succeeds.

Exceptions:

IllegalArgumentException if the element cannot be added.

Implements `decaf::util::Collection< E >` (p. 873).

References `decaf::util::Queue< E >::offer()`.

6.4.3.2 `template<typename E > virtual bool decaf::util::AbstractQueue< E >::addAll (const Collection< E > & collection) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)` [inline, virtual]

Adds all the elements of a collection to the queue. If the collection is the queue itself, then an `IllegalArgumentException` will be thrown out. If during the process, some runtime exception is thrown out, then part of the elements in the collection that have successfully added will remain in the queue.

The result of the method is undefined if the collection is modified during the process of the method.

Parameters:

collection - the collection to be added to the queue.

Returns:

true if the operation succeeds.

Exceptions:

IllegalArgumentException If the collection to be added to the queue is the queue itself.

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 126).

6.4.3.3 `template<typename E > virtual void decaf::util::AbstractQueue< E >::clear
() throw (lang::exceptions::UnsupportedOperationException) [inline,
virtual]`

Removes all elements of the queue. This implementation repeatedly invokes poll until it returns the empty marker.

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 127).

References **decaf::util::Queue< E >::getEmptyMarker()**, and **decaf::util::Queue< E >::poll()**.

6.4.3.4 `template<typename E > virtual const E&
decaf::util::AbstractQueue< E >::element () const throw (
decaf::lang::exceptions::NoSuchElementException) [inline, virtual]`

Retrieves, but does not remove, the head of this queue. This method differs from peek only in that it throws an exception if this queue is empty.

This implementation returns the result of peek unless the queue is empty.

Returns:

the element in the head of the queue.

Exceptions:

NoSuchElementException if the queue is empty.

Implements **decaf::util::Queue< E >** (p. 2155).

References **decaf::util::Queue< E >::getEmptyMarker()**, and **decaf::util::Queue< E >::peek()**.

6.4.3.5 `template<typename E > virtual E decaf::util::AbstractQueue< E >::remove
() throw (decaf::lang::exceptions::NoSuchElementException) [inline,
virtual]`

Retrieves and removes the head of this queue. This method differs from poll only in that it throws an exception if this queue is empty.

This implementation returns the result of poll unless the queue is empty.

Returns:

a copy of the element in the head of the queue.

Exceptions:

NoSuchElementException if the queue is empty.

Implements **decaf::util::Queue< E >** (p. 2156).

References **decaf::util::Queue< E >::getEmptyMarker()**, and **decaf::util::Queue< E >::poll()**.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/AbstractQueue.h`

6.5 decaf::util::AbstractSequentialList< E > Class Template Reference

This class provides a skeletal implementation of the **List** (p.1591) interface to minimize the effort required to implement this interface backed by a "sequential access" data store (such as a linked list).

#include <src/main/decaf/util/AbstractSequentialList.h> Inheritance diagram for decaf::util::AbstractSequentialList< E >:

Public Member Functions

- virtual ~AbstractSequentialList ()

6.5.1 Detailed Description

template<typename E> class decaf::util::AbstractSequentialList< E >

This class provides a skeletal implementation of the **List** (p.1591) interface to minimize the effort required to implement this interface backed by a "sequential access" data store (such as a linked list). For random access data (such as an array), **AbstractList** (p.134) should be used in preference to this class.

This class is the opposite of the **AbstractList** (p.134) class in the sense that it implements the "random access" methods (get(int index), set(int index, E element), add(int index, E element) and remove(int index)) on top of the list's list iterator, instead of the other way around.

To implement a list the programmer needs only to extend this class and provide implementations for the listIterator and size methods. For an unmodifiable list, the programmer need only implement the list iterator's hasNext, next, hasPrevious, previous and index methods.

For a modifiable list the programmer should additionally implement the list iterator's set method. For a variable-size list the programmer should additionally implement the list iterator's remove and add methods.

The programmer should generally provide a void (no argument) and collection constructor, as per the recommendation in the **Collection** (p.871) interface specification.

Since:

1.0

6.5.2 Constructor & Destructor Documentation

6.5.2.1 template<typename E > virtual decaf::util::AbstractSequentialList< E >::~AbstractSequentialList () [inline, virtual]

The documentation for this class was generated from the following file:

- src/main/decaf/util/AbstractSequentialList.h

6.6 decaf::util::AbstractSet< E > Class Template Reference

This class provides a skeletal implementation of the **Set** (p. 2320) interface to minimize the effort required to implement this interface.

```
#include <src/main/decaf/util/AbstractSet.h> Inheritance diagram for
decaf::util::AbstractSet< E >:
```

Public Member Functions

- virtual **~AbstractSet** ()
- virtual bool **removeAll** (const **Collection**< E > &collection) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)
Removes from this set all of its elements that are contained in the specified collection (optional operation).

6.6.1 Detailed Description

```
template<typename E> class decaf::util::AbstractSet< E >
```

This class provides a skeletal implementation of the **Set** (p. 2320) interface to minimize the effort required to implement this interface. The process of implementing a set by extending this class is identical to that of implementing a **Collection** (p. 871) by extending **AbstractCollection** (p. 123), except that all of the methods and constructors in subclasses of this class must obey the additional constraints imposed by the **Set** (p. 2320) interface (for instance, the add method must not permit addition of multiple instances of an object to a set).

Since:

1.0

6.6.2 Constructor & Destructor Documentation

6.6.2.1 template<typename E> virtual decaf::util::AbstractSet< E >::~AbstractSet () [inline, virtual]

6.6.3 Member Function Documentation

6.6.3.1 template<typename E> virtual bool decaf::util::AbstractSet< E >::removeAll (const **Collection**< E > & collection) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException) [inline, virtual]

Removes from this set all of its elements that are contained in the specified collection (optional operation). If the specified collection is also a set, this operation effectively modifies this set so that its value is the asymmetric set difference of the two sets.

This implementation determines which is the smaller of this set and the specified collection, by invoking the size method on each. If this set has fewer elements, then the implementation iterates

over this set, checking each element returned by the iterator in turn to see if it is contained in the specified collection. If it is so contained, it is removed from this set with the iterator's remove method. If the specified collection has fewer elements, then the implementation iterates over the specified collection, removing from this set each element returned by the iterator, using this set's remove method.

Note that this implementation will throw an `UnsupportedOperationException` if the iterator returned by the iterator method does not implement the remove method.

Parameters:

collection - The **Collection** (p. 871) whose elements are to be retained

Returns:

true if the collection changed as a result of this call

Exceptions:

UnsupportedOperationException

IllegalArgumentException

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 131).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/AbstractSet.h`

6.7 activemq::transport::AbstractTransportFactory Class Reference

Abstract implementation of the **TransportFactory** (p. 2614) interface, providing the base functionality that's common to most of the **TransportFactory** (p. 2614) instances.

#include <src/main/activemq/transport/AbstractTransportFactory.h> Inheritance diagram for activemq::transport::AbstractTransportFactory:

Public Member Functions

- virtual **~AbstractTransportFactory** ()

Protected Member Functions

- virtual **Pointer< wireformat::WireFormat > createWireFormat** (const **decaf::util::Properties** &properties) throw (**decaf::lang::exceptions::NoSuchElementException**)

*Creates the WireFormat that is configured for this **Transport** (p. 2608) and returns it.*

6.7.1 Detailed Description

Abstract implementation of the **TransportFactory** (p. 2614) interface, providing the base functionality that's common to most of the **TransportFactory** (p. 2614) instances.

Since:

3.0

6.7.2 Constructor & Destructor Documentation

- 6.7.2.1** virtual **activemq::transport::AbstractTransportFactory::~~AbstractTransportFactory** () [inline, virtual]

6.7.3 Member Function Documentation

- 6.7.3.1** virtual **Pointer<wireformat::WireFormat> activemq::transport::AbstractTransportFactory::createWireFormat** (const **decaf::util::Properties** & *properties*) throw (**decaf::lang::exceptions::NoSuchElementException**) [protected, virtual]

Creates the WireFormat that is configured for this **Transport** (p.2608) and returns it. The default WireFormat is Openwire.

Parameters:

properties The properties that were configured on the URI.

Returns:

a pointer to a `WireFormat` instance that the caller then owns.

Exceptions:

NoSuchElementException if the configured `WireFormat` is not found.

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/AbstractTransportFactory.h`

6.8 activemq::core::ActiveMQAckHandler Class Reference

Interface class that is used to give CMS Messages an interface to Ack themselves with.

#include <src/main/activemq/core/ActiveMQAckHandler.h> Inheritance diagram for activemq::core::ActiveMQAckHandler:

Public Member Functions

- virtual **~ActiveMQAckHandler** ()
- virtual void **acknowledgeMessage** (const **commands::Message** *message)=0 throw (cms::CMSException)

Method called to acknowledge the message passed.

6.8.1 Detailed Description

Interface class that is used to give CMS Messages an interface to Ack themselves with.

Since:

2.0

6.8.2 Constructor & Destructor Documentation

- 6.8.2.1** virtual **activemq::core::ActiveMQAckHandler::~ActiveMQAckHandler** ()
[inline, virtual]

6.8.3 Member Function Documentation

- 6.8.3.1** virtual void **activemq::core::ActiveMQAckHandler::acknowledgeMessage** (const **commands::Message** * *message*) throw (cms::CMSException)
[pure virtual]

Method called to acknowledge the message passed.

Parameters:

message Message to Acknowledge

Exceptions:

CMSException

Implemented in **activemq::core::ActiveMQConsumer** (p. 221).

The documentation for this class was generated from the following file:

- src/main/activemq/core/**ActiveMQAckHandler.h**

6.9 activemq::commands::ActiveMQBlobMessage Class Reference

#include <src/main/activemq/commands/ActiveMQBlobMessage.h> Inheritance diagram for activemq::commands::ActiveMQBlobMessage:

Public Member Functions

- **ActiveMQBlobMessage** ()
- virtual **~ActiveMQBlobMessage** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ActiveMQBlobMessage * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual **cms::Message * clone** () const
Clone this message exactly, returns a new instance that the caller is required to delete.
- std::string **getRemoteBlobUrl** () const
Get the Remote URL of the Blob.
- void **setRemoteBlobUrl** (const std::string &remoteURL)
Set the Remote URL of the Blob.
- std::string **getMimeType** () const
Get the Mime Type of the Blob.
- void **setMimeType** (const std::string &mimeType)
Set the Mime Type of the Blob.
- std::string **getName** () const
Gets the Name of the Blob.
- void **setName** (const std::string &name)
Sets the Name of the Blob.

- bool **isDeletedByBroker** () const
Gets if this Blob is deleted by the Broker.
- void **setDeletedByBroker** (bool value)
Sets the Deleted By Broker flag.

Static Public Attributes

- static const unsigned char **ID_ACTIVEMQBLOBMESSAGE** = 29
- static const std::string **BINARY_MIME_TYPE**

6.9.1 Constructor & Destructor Documentation

6.9.1.1 `activemq::commands::ActiveMQBlobMessage::ActiveMQBlobMessage ()`

6.9.1.2 `virtual
activemq::commands::ActiveMQBlobMessage::~ActiveMQBlobMessage ()
[inline, virtual]`

6.9.2 Member Function Documentation

6.9.2.1 `virtual cms::Message* activemq::commands::ActiveMQBlobMessage::clone
() const [inline, virtual]`

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implements **cms::Message** (p.1758).

6.9.2.2 `virtual ActiveMQBlobMessage* ac-
tivismq::commands::ActiveMQBlobMessage::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::Message** (p.1741).

6.9.2.3 `virtual void ac-
tivismq::commands::ActiveMQBlobMessage::copyDataStructure (const
DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::Message` (p. 1742).

6.9.2.4 `virtual bool activemq::commands::ActiveMQBlobMessage::equals (const DataStructure * value) const` [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::Message` (p. 1742).

6.9.2.5 `virtual unsigned char activemq::commands::ActiveMQBlobMessage::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from `activemq::commands::Message` (p. 1743).

6.9.2.6 `std::string activemq::commands::ActiveMQBlobMessage::getMimeType () const` [inline]

Get the Mime Type of the Blob.

Returns:

string holding the MIME Type.

6.9.2.7 `std::string activemq::commands::ActiveMQBlobMessage::getName () const` [inline]

Gets the Name of the Blob.

Returns:

string name of the Blob.

6.9.2.8 `std::string activemq::commands::ActiveMQBlobMessage::getRemoteBlobUrl () const` [inline]

Get the Remote URL of the Blob.

Returns:

string from of the Remote Blob URL.

6.9.2.9 bool activemq::commands::ActiveMQBlobMessage::isDeletedByBroker ()
const [inline]

Gets if this Blob is deleted by the Broker.

Returns:

true if the Blob is deleted by the Broker.

6.9.2.10 void activemq::commands::ActiveMQBlobMessage::setDeletedByBroker
(bool value) [inline]

Sets the Deleted By Broker flag.

Parameters:

value - set the Delete by broker flag to value.

6.9.2.11 void activemq::commands::ActiveMQBlobMessage::setMimeType (const
std::string & mimeType) [inline]

Set the Mime Type of the Blob.

Parameters:

mimeType - String holding the MIME Type.

6.9.2.12 void activemq::commands::ActiveMQBlobMessage::setName (const
std::string & name) [inline]

Sets the Name of the Blob.

Parameters:

name - Name of the Blob.

6.9.2.13 void activemq::commands::ActiveMQBlobMessage::setRemoteBlobUrl
(const std::string & remoteURL) [inline]

Set the Remote URL of the Blob.

Parameters:

remoteURL - String form of the Remote URL.

6.9.2.14 `virtual std::string activemq::commands::ActiveMQBlobMessage::toString
() const [virtual]`

Returns a string containing the information for this **DataSet** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::Message` (p.1749).

6.9.3 Field Documentation

6.9.3.1 `const std::string activemq::commands::ActiveMQBlobMessage::BINARY_-
MIME_TYPE [static]`

6.9.3.2 `const unsigned char activemq::commands::ActiveMQBlobMessage::ID_-
ACTIVEMQBLOBMESSAGE = 29 [static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQBlobMessage.h`

6.10 activemq:wireformat::openwire::marshal:v3::ActiveMQBlobMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p.151).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBlobMessageMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal:v3::ActiveMQBlobMessageMarshaller:

Public Member Functions

- **ActiveMQBlobMessageMarshaller** ()
- virtual **~ActiveMQBlobMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.10.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p.151).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.10.2 Constructor & Destructor Documentation

6.10.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::ActiveMQBlobMessageMarshaller()` [inline]

6.10.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::~~ActiveMQBlobMessageMarshaller()` [inline, virtual]

6.10.3 Member Function Documentation

6.10.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::createObject(const commands::DataStructure&) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.10.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.10.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::looseMarshal(const OpenWireFormat* wireFormat, commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.10.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.10.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1868).

6.10.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

6.10.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBlobMessageMarshaller.h`

6.11 activemq:wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p.155).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQBlobMessageMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller:

Public Member Functions

- **ActiveMQBlobMessageMarshaller** ()
- virtual **~ActiveMQBlobMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.11.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p.155).
 NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.11.2 Constructor & Destructor Documentation

6.11.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::ActiveMQBlobMessageMarshaller()` [inline]

6.11.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::~~ActiveMQBlobMessageMarshaller()` [inline, virtual]

6.11.3 Member Function Documentation

6.11.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::createObject(const commands::DataStructure&) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.11.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.11.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::marshal(const OpenWireFormat* wireFormat, commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.11.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.11.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1873).

6.11.3.6 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

6.11.3.7 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQBlobMessageMarshaller.h`

6.12 activemq:wireformat::openwire::marshal:v2::ActiveMQBlobMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 159).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQBlobMessageMarshaller.h> Inheritance diagram for activemq:wireformat::openwire::marshal:v2::ActiveMQBlobMessageMarshaller:

Public Member Functions

- **ActiveMQBlobMessageMarshaller** ()
- virtual **~ActiveMQBlobMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.12.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 159).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.12.2 Constructor & Destructor Documentation

6.12.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::ActiveMQBlobMessageMarshaller()` [inline]

6.12.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::~~ActiveMQBlobMessageMarshaller()` [inline, virtual]

6.12.3 Member Function Documentation

6.12.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::createObject(const std::string& name) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.12.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.12.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::looseMarshal(const OpenWireFormat* wireFormat, commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.12.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.12.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1863).

6.12.3.6 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

6.12.3.7 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQBlobMessageMarshaller.h`

6.13 activemq::commands::ActiveMQBytesMessage Class Reference

#include <src/main/activemq/commands/ActiveMQBytesMessage.h> Inheritance diagram for activemq::commands::ActiveMQBytesMessage:

Public Member Functions

- **ActiveMQBytesMessage** ()
- virtual **~ActiveMQBytesMessage** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ActiveMQBytesMessage** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual **cms::BytesMessage** * **clone** () const
Clone this message exactly, returns a new instance that the caller is required to delete.
- virtual void **clearBody** () throw (cms::CMSEException)
Clears out the body of the message.
- virtual void **setBodyBytes** (const unsigned char *buffer, std::size_t numBytes) throw (cms::CMSEException)
sets the bytes given to the message body.
- virtual const unsigned char * **getBodyBytes** () const throw (cms::CMSEException)
Gets the bytes that are contained in this message, user should copy this data into a user allocated buffer.
- virtual std::size_t **getBodyLength** () const throw (cms::CMSEException)
Returns the number of bytes contained in the body of this message.
- virtual void **reset** () throw (cms::CMSEException)
Puts the message body in read-only mode and repositions the stream of bytes to the beginning.
- virtual bool **readBoolean** () const throw (cms::CMSEException)

Reads a Boolean from the Bytes message stream.

- virtual void **writeBoolean** (bool value) throw (cms::CMSEException)
Writes a boolean to the bytes message stream as a 1-byte value.
- virtual unsigned char **readByte** () const throw (cms::CMSEException)
Reads a Byte from the Bytes message stream.
- virtual void **writeByte** (unsigned char value) throw (cms::CMSEException)
Writes a byte to the bytes message stream as a 1-byte value.
- virtual std::size_t **readBytes** (std::vector< unsigned char > &value) const throw (cms::CMSEException)
Reads a byte array from the bytes message stream.
- virtual void **writeBytes** (const std::vector< unsigned char > &value) throw (cms::CMSEException)
Writes a byte array to the bytes message stream using the vector size as the number of bytes to write.
- virtual std::size_t **readBytes** (unsigned char *&buffer, std::size_t length) const throw (cms::CMSEException)
Reads a portion of the bytes message stream.
- virtual void **writeBytes** (const unsigned char *value, std::size_t offset, std::size_t length) throw (cms::CMSEException)
Writes a portion of a byte array to the bytes message stream.
- virtual char **readChar** () const throw (cms::CMSEException)
Reads a Char from the Bytes message stream.
- virtual void **writeChar** (char value) throw (cms::CMSEException)
Writes a char to the bytes message stream as a 1-byte value.
- virtual float **readFloat** () const throw (cms::CMSEException)
Reads a 32 bit float from the Bytes message stream.
- virtual void **writeFloat** (float value) throw (cms::CMSEException)
Writes a float to the bytes message stream as a 4 byte value.
- virtual double **readDouble** () const throw (cms::CMSEException)
Reads a 64 bit double from the Bytes message stream.
- virtual void **writeDouble** (double value) throw (cms::CMSEException)
Writes a double to the bytes message stream as a 8 byte value.
- virtual short **readShort** () const throw (cms::CMSEException)
Reads a 16 bit signed short from the Bytes message stream.
- virtual void **writeShort** (short value) throw (cms::CMSEException)

Writes a signed short to the bytes message stream as a 2 byte value.

- virtual unsigned short **readUnsignedShort** () const throw (cms::CMSEException)
Reads a 16 bit unsigned short from the Bytes message stream.
- virtual void **writeUnsignedShort** (unsigned short value) throw (cms::CMSEException)
Writes a unsigned short to the bytes message stream as a 2 byte value.
- virtual int **readInt** () const throw (cms::CMSEException)
Reads a 32 bit signed intger from the Bytes message stream.
- virtual void **writeInt** (int value) throw (cms::CMSEException)
Writes a signed int to the bytes message stream as a 4 byte value.
- virtual long long **readLong** () const throw (cms::CMSEException)
Reads a 64 bit long from the Bytes message stream.
- virtual void **writeLong** (long long value) throw (cms::CMSEException)
Writes a long long to the bytes message stream as a 8 byte value.
- virtual std::string **readString** () const throw (cms::CMSEException)
Reads an ASCII String from the Bytes message stream.
- virtual void **writeString** (const std::string &value) throw (cms::CMSEException)
Writes an ASCII String to the Bytes message stream.
- virtual std::string **readUTF** () const throw (cms::CMSEException)
Reads an UTF String from the BytesMessage stream.
- virtual void **writeUTF** (const std::string &value) throw (cms::CMSEException)
Writes an UTF String to the BytesMessage stream.

Static Public Attributes

- static const unsigned char **ID _ACTIVEMQBYTESMESSAGE** = 24

Protected Member Functions

- void **checkWriteOnlyBody** () const throw (cms::CMSEException)
Throws an exception if in write-only mode.

6.13.1 Constructor & Destructor Documentation

6.13.1.1 `activemq::commands::ActiveMQBytesMessage::ActiveMQBytesMessage ()`

6.13.1.2 `virtual
activemq::commands::ActiveMQBytesMessage::~~ActiveMQBytesMessage
() [inline, virtual]`

6.13.2 Member Function Documentation

6.13.2.1 `void activemq::commands::ActiveMQBytesMessage::checkWriteOnlyBody
() const throw (cms::CMSException) [protected]`

Throws an exception if in write-only mode.

Exceptions:

CMSException.

6.13.2.2 `virtual void activemq::commands::ActiveMQBytesMessage::clearBody ()
throw (cms::CMSException) [inline, virtual]`

Clears out the body of the message. This does not clear the headers or properties.

Reimplemented from `activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >` (p. 297).

6.13.2.3 `virtual cms::BytesMessage* ac-
tivemq::commands::ActiveMQBytesMessage::clone () const
[inline, virtual]`

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implements `cms::BytesMessage` (p. 762).

6.13.2.4 `virtual ActiveMQBytesMessage* ac-
tivemq::commands::ActiveMQBytesMessage::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::Message` (p. 1741).

6.13.2.5 `virtual void activemq::commands::ActiveMQBytesMessage::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::Message` (p. 1742).

6.13.2.6 `virtual bool activemq::commands::ActiveMQBytesMessage::equals (const DataStructure * value) const [virtual]`

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Parameters:

value The **Command** (p. 879) to compare to this one.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::Message` (p. 1742).

6.13.2.7 `virtual const unsigned char* activemq::commands::ActiveMQBytesMessage::getBodyBytes () const throw (cms::CMSEException) [virtual]`

Gets the bytes that are contained in this message, user should copy this data into a user allocated buffer. Call `getBodyLength` to determine the number of bytes to expect.

Returns:

const pointer to a byte buffer

Implements `cms::BytesMessage` (p. 762).

6.13.2.8 `virtual std::size_t activemq::commands::ActiveMQBytesMessage::getBodyLength () const throw (cms::CMSEException) [virtual]`

Returns the number of bytes contained in the body of this message.

Returns:

number of bytes.

Implements `cms::BytesMessage` (p. 762).

6.13.2.9 `virtual unsigned char activemq::commands::ActiveMQBytesMessage::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from **activemq::commands::Message** (p. 1743).

6.13.2.10 `virtual bool activemq::commands::ActiveMQBytesMessage::readBoolean () const throw (cms::CMSEException) [virtual]`

Reads a Boolean from the Bytes message stream.

Returns:

boolean value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 763).

6.13.2.11 `virtual unsigned char activemq::commands::ActiveMQBytesMessage::readByte () const throw (cms::CMSEException) [virtual]`

Reads a Byte from the Bytes message stream.

Returns:

unsigned char value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 763).

6.13.2.12 `virtual std::size_t activemq::commands::ActiveMQBytesMessage::readBytes (unsigned char *& buffer, std::size_t length) const throw (cms::CMSEException) [virtual]`

Reads a portion of the bytes message stream. If the length of array value is less than the number of bytes remaining to be read from the stream, the array should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of array value, the bytes should be read into the array. The return value of the total number of bytes read will be less than

the length of the array, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

If length is negative, or length is greater than the length of the array value, then an `IndexOutOfBoundsException` is thrown. No bytes will be read from the stream for this exception case.

Parameters:

buffer - the buffer into which the data is read

length - the number of bytes to read; must be less than or equal to value.length

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSEException

Implements `cms::BytesMessage` (p. 763).

6.13.2.13 `virtual std::size_t activemq::commands::ActiveMQBytesMessage::readBytes (std::vector< unsigned char > & value) const throw (cms::CMSEException) [virtual]`

Reads a byte array from the bytes message stream. If the length of vector value is less than the number of bytes remaining to be read from the stream, the vector should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of vector value, the bytes should be read into the vector. The return value of the total number of bytes read will be less than the length of the vector, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

Parameters:

value - buffer to place data in

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSEException if an error occurs.

Implements `cms::BytesMessage` (p. 764).

6.13.2.14 `virtual char activemq::commands::ActiveMQBytesMessage::readChar () const throw (cms::CMSEException) [virtual]`

Reads a Char from the Bytes message stream.

Returns:

char value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 764).

6.13.2.15 virtual double activemq::commands::ActiveMQBytesMessage::readDouble
() const throw (cms::CMSEException) [virtual]

Reads a 64 bit double from the Bytes message stream.

Returns:

double value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 765).

6.13.2.16 virtual float activemq::commands::ActiveMQBytesMessage::readFloat ()
const throw (cms::CMSEException) [virtual]

Reads a 32 bit float from the Bytes message stream.

Returns:

double value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 765).

6.13.2.17 virtual int activemq::commands::ActiveMQBytesMessage::readInt ()
const throw (cms::CMSEException) [virtual]

Reads a 32 bit signed integer from the Bytes message stream.

Returns:

int value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 765).

6.13.2.18 virtual long long activemq::commands::ActiveMQBytesMessage::readLong ()
const throw (cms::CMSEException) [virtual]

Reads a 64 bit long from the Bytes message stream.

Returns:

long long value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 766).

6.13.2.19 virtual short activemq::commands::ActiveMQBytesMessage::readShort ()
const throw (cms::CMSEException) [virtual]

Reads a 16 bit signed short from the Bytes message stream.

Returns:

short value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 766).

6.13.2.20 virtual std::string activemq::commands::ActiveMQBytesMessage::readString ()
const throw (cms::CMSEException) [virtual]

Reads an ASCII String from the Bytes message stream.

Returns:

String from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 766).

6.13.2.21 virtual unsigned short activemq::commands::ActiveMQBytesMessage::readUnsignedShort () const
throw (cms::CMSEException) [virtual]

Reads a 16 bit unsigned short from the Bytes message stream.

Returns:

unsigned short value from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 767).

6.13.2.22 `virtual std::string activemq::commands::ActiveMQBytesMessage::readUTF ()
const throw (cms::CMSEException) [virtual]`

Reads an UTF String from the BytesMessage stream.

Returns:

String from stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 767).

6.13.2.23 `virtual void activemq::commands::ActiveMQBytesMessage::reset ()
throw (cms::CMSEException) [virtual]`

Puts the message body in read-only mode and repositions the stream of bytes to the beginning.

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 767).

6.13.2.24 `virtual void activemq::commands::ActiveMQBytesMessage::setBodyBytes
(const unsigned char * buffer, std::size_t numBytes) throw (
cms::CMSEException) [virtual]`

sets the bytes given to the message body.

Parameters:

buffer Byte Buffer to copy.

numBytes Number of bytes in Buffer to copy.

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 768).

6.13.2.25 `virtual std::string activemq::commands::ActiveMQBytesMessage::toString () const [virtual]`

Returns a string containing the information for this **DataSet** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::Message** (p.1749).

6.13.2.26 `virtual void activemq::commands::ActiveMQBytesMessage::writeBoolean (bool value) throw (cms::CMSException) [virtual]`

Writes a boolean to the bytes message stream as a 1-byte value. The value true is written as the value (byte)1; the value false is written as the value (byte)0.

Parameters:

value - boolean to write to the stream

Exceptions:

CMSException

Implements **cms::BytesMessage** (p.768).

6.13.2.27 `virtual void activemq::commands::ActiveMQBytesMessage::writeByte (unsigned char value) throw (cms::CMSException) [virtual]`

Writes a byte to the bytes message stream as a 1-byte value.

Parameters:

value - byte to write to the stream

Exceptions:

CMSException

Implements **cms::BytesMessage** (p.768).

6.13.2.28 `virtual void activemq::commands::ActiveMQBytesMessage::writeBytes (const unsigned char * value, std::size_t offset, std::size_t length) throw (cms::CMSException) [virtual]`

Writes a portion of a byte array to the bytes message stream. size as the number of bytes to write.

Parameters:

value - bytes to write to the stream

offset - the initial offset within the byte array

length - the number of bytes to use

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 769).

6.13.2.29 **virtual void activemq::commands::ActiveMQBytesMessage::writeBytes**
 (const std::vector< unsigned char > & value) throw (cms::CMSEException
) [virtual]

Writes a byte array to the bytes message stream using the vector size as the number of bytes to write.

Parameters:

value - bytes to write to the stream.

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 769).

6.13.2.30 **virtual void activemq::commands::ActiveMQBytesMessage::writeChar**
 (char value) throw (cms::CMSEException) [virtual]

Writes a char to the bytes message stream as a 1-byte value.

Parameters:

value - char to write to the stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 769).

6.13.2.31 **virtual void activemq::commands::ActiveMQBytesMessage::writeDouble**
 (double value) throw (cms::CMSEException) [virtual]

Writes a double to the bytes message stream as a 8 byte value.

Parameters:

value - double to write to the stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 770).

6.13.2.32 virtual void activemq::commands::ActiveMQBytesMessage::writeFloat (float *value*) throw (cms::CMSException) [virtual]

Writes a float to the bytes message stream as a 4 byte value.

Parameters:

value - float to write to the stream

Exceptions:

CMSException

Implements cms::BytesMessage (p. 770).

6.13.2.33 virtual void activemq::commands::ActiveMQBytesMessage::writeInt (int *value*) throw (cms::CMSException) [virtual]

Writes a signed int to the bytes message stream as a 4 byte value.

Parameters:

value - signed int to write to the stream

Exceptions:

CMSException

Implements cms::BytesMessage (p. 770).

6.13.2.34 virtual void activemq::commands::ActiveMQBytesMessage::writeLong (long long *value*) throw (cms::CMSException) [virtual]

Writes a long long to the bytes message stream as a 8 byte value.

Parameters:

value - signed long long to write to the stream

Exceptions:

CMSException

Implements cms::BytesMessage (p. 771).

6.13.2.35 virtual void activemq::commands::ActiveMQBytesMessage::writeShort (short *value*) throw (cms::CMSException) [virtual]

Writes a signed short to the bytes message stream as a 2 byte value.

Parameters:

value - signed short to write to the stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 771).

6.13.2.36 `virtual void activemq::commands::ActiveMQBytesMessage::writeString
(const std::string & value) throw (cms::CMSEException) [virtual]`

Writes an ASCII String to the Bytes message stream.

Parameters:

value - String to write to the stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 771).

6.13.2.37 `virtual void ac-
tivismq::commands::ActiveMQBytesMessage::writeUnsignedShort
(unsigned short value) throw (cms::CMSEException) [virtual]`

Writes a unsigned short to the bytes message stream as a 2 byte value.

Parameters:

value - unsigned short to write to the stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 772).

6.13.2.38 `virtual void activemq::commands::ActiveMQBytesMessage::writeUTF
(const std::string & value) throw (cms::CMSEException) [virtual]`

Writes an UTF String to the BytesMessage stream.

Parameters:

value - String to write to the stream

Exceptions:

CMSEException

Implements **cms::BytesMessage** (p. 772).

6.13.3 Field Documentation

6.13.3.1 `const unsigned char activemq::commands::ActiveMQBytesMessage::ID - ACTIVEMQBYTESMESSAGE = 24` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQBytesMessage.h`

6.14 activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 178).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBytesMessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller:

Public Member Functions

- **ActiveMQBytesMessageMarshaller** ()
- virtual **~ActiveMQBytesMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.14.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 178).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.14

activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller

Class Reference

179

6.14.2 Constructor & Destructor Documentation

6.14.2.1 **activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::ActiveMQBytesMessageMarshaller()** [inline]

6.14.2.2 **virtual activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::~~ActiveMQBytesMessageMarshaller()** [inline, virtual]

6.14.3 Member Function Documentation

6.14.3.1 **virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::createObject(const std::string&)** [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1148).

6.14.3.2 **virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::getDataStructureType()** [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1151).

6.14.3.3 **virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::looseMarshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)** [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.14.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.14.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1868).

6.14

activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller

Class Reference

181

6.14.3.6 virtual void ac-

```
ativemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::tightMarsh  
(OpenWireFormat * wireFormat, commands::DataStructure  
* dataStructure, decaf::io::DataOutputStream * dataOut,  
utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller**
(p. 1869).

6.14.3.7 virtual void ac-

```
ativemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller::tightUnmar  
(OpenWireFormat * wireFormat, commands::DataStructure *  
dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream  
* bs) throw ( decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller**
(p. 1869).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBytesMessageMarshaller.h

6.15 activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 182).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQBytesMessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller:

Public Member Functions

- **ActiveMQBytesMessageMarshaller** ()
- virtual **~ActiveMQBytesMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.15.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 182).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.15.2 Constructor & Destructor Documentation

6.15.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::ActiveMQBytesMessageMarshaller()` `[inline]`

6.15.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::~~ActiveMQBytesMessageMarshaller()` `[inline, virtual]`

6.15.3 Member Function Documentation

6.15.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::createObject(const std::string& name) const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.15.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::getDataStructureType() const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.15.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::looseMarshal(const commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.15.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.15.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1873).

```

6.15.3.6 virtual void ac-
        tivemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::tightMarsh
        (OpenWireFormat * wireFormat, commands::DataStructure
        * dataStructure, decaf::io::DataOutputStream * dataOut,
        utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryReader that provides that data sink
- bs* - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

```

6.15.3.7 virtual void ac-
        tivemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller::tightUnmar
        (OpenWireFormat * wireFormat, commands::DataStructure *
        dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
        * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ActiveMQBytesMessageMarshaller.h**

6.16 activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 186).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQBytesMessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller:

Public Member Functions

- **ActiveMQBytesMessageMarshaller** ()
- virtual **~ActiveMQBytesMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.16.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 186).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.16.2 Constructor & Destructor Documentation

6.16.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::ActiveMQBytesMessageMarshaller()` [inline]

6.16.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::~~ActiveMQBytesMessageMarshaller()` [inline, virtual]

6.16.3 Member Function Documentation

6.16.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::createObject(const std::string&)` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.16.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::getDataStructureType()` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.16.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::looseMarshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.16.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.16.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1863).

6.16

activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller

Class Reference

189

```
6.16.3.6 virtual void ac-
tivemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::tightMarsh
(OpenWireFormat * wireFormat, commands::DataStructure
* dataStructure, decaf::io::DataOutputStream * dataOut,
utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
```

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryReader that provides that data sink
- bs* - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

```
6.16.3.7 virtual void ac-
tivemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller::tightUnmar
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
* bs) throw ( decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ActiveMQBytesMessageMarshaller.h**

6.17 activemq::core::ActiveMQConnection Class Reference

Concrete connection used for all connectors to the ActiveMQ broker.

#include <src/main/activemq/core/ActiveMQConnection.h> Inheritance diagram for activemq::core::ActiveMQConnection:

Public Member Functions

- **ActiveMQConnection** (const **Pointer**< **transport::Transport** > &transport, const **Pointer**< **decaf::util::Properties** > &properties)
Constructor.
- virtual ~**ActiveMQConnection** ()
- virtual void **removeSession** (**ActiveMQSession** *session) throw (cms::CMSException)
Removes the session resources for the given session instance.
- virtual void **addProducer** (**ActiveMQProducer** *producer) throw (cms::CMSException)
Adds an active Producer to the Set of known producers.
- virtual void **removeProducer** (const **Pointer**< **commands::ProducerId** > &producerId) throw (cms::CMSException)
Removes an active Producer to the Set of known producers.
- virtual void **addDispatcher** (const **Pointer**< **commands::ConsumerId** > &consumer, **Dispatcher** *dispatcher) throw (cms::CMSException)
Adds a dispatcher for a consumer.
- virtual void **removeDispatcher** (const **Pointer**< **commands::ConsumerId** > &consumer) throw (cms::CMSException)
Removes the dispatcher for a consumer.
- virtual void **sendPullRequest** (const **commands::ConsumerInfo** *consumer, long long timeout) throw (exceptions::ActiveMQException)
If supported sends a message pull request to the service provider asking for the delivery of a new message.
- bool **isClosed** () const
Checks if this connection has been closed.
- bool **isStarted** () const
Check if this connection has been started.
- virtual void **destroyDestination** (const **commands::ActiveMQDestination** *destination) throw (decaf::lang::exceptions::NullPointerException, decaf::lang::exceptions::IllegalStateException, decaf::lang::exceptions::UnsupportedOperationException, activemq::exceptions::ActiveMQException)

Requests that the Broker removes the given Destination.

- virtual void **destroyDestination** (const **cms::Destination** *destination) throw (decaf::lang::exceptions::NullPointerException, decaf::lang::exceptions::IllegalStateException, decaf::lang::exceptions::UnsupportedOperationException, activemq::exceptions::ActiveMQException)

Requests that the Broker removes the given Destination.

- virtual const **cms::ConnectionMetaData** * **getMetaData** () const throw (cms::CMSException)

Gets the metadata for this connection.

- virtual **cms::Session** * **createSession** () throw (cms::CMSException)

Creates a new Session to work for this Connection.

- virtual **cms::Session** * **createSession** (cms::Session::AcknowledgeMode ackMode) throw (cms::CMSException)

Creates a new Session to work for this Connection using the specified acknowledgment mode.

- virtual std::string **getClientID** () const

Get the Client Id for this session.

- virtual void **close** () throw (cms::CMSException)

Closes this connection as well as any Sessions created from it (and those Sessions' consumers and producers).

- virtual void **start** () throw (cms::CMSException)

Starts or (restarts) a connections delivery of incoming messages.

- virtual void **stop** () throw (cms::CMSException)

Stop the flow of incoming messages.

- virtual **cms::ExceptionListener** * **getExceptionListener** () const

Gets the registered Exception Listener for this connection.

- virtual void **setExceptionListener** (cms::ExceptionListener *listener)

Sets the registered Exception Listener for this connection.

- virtual void **onCommand** (const **Pointer**< **commands::Command** > &command)

*Event handler for the receipt of a non-response command from the **transport** (p. 67).*

- virtual void **onException** (const decaf::lang::Exception &ex)

*Event handler for an exception from a command **transport** (p. 67).*

- virtual void **transportInterrupted** ()

*The **transport** (p. 67) has suffered an interruption from which it hopes to recover.*

- const **commands::ConnectionInfo** & **getConnectionInfo** () const throw (exceptions::ActiveMQException)

Gets the ConnectionInfo for this Object, if the Connection is not open than this method throws an exception.

- `const commands::ConnectionId & getConnectionId () const throw (exceptions::ActiveMQException)`

Gets the ConnectionId for this Object, if the Connection is not open than this method throws an exception.

- `void oneway (Pointer< commands::Command > command) throw (activemq::exceptions::ActiveMQException)`

Sends a oneway message.

- `void syncRequest (Pointer< commands::Command > command, unsigned int timeout=0) throw (activemq::exceptions::ActiveMQException)`

Sends a synchronous request and returns the response from the broker.

- `void disposeOf (const Pointer< commands::DataStructure > &objectId) throw (activemq::exceptions::ActiveMQException)`

Sends a message to the broker to dispose of the given resource using an async oneway call.

- `void disposeOf (const Pointer< commands::DataStructure > &objectId, unsigned int timeout) throw (activemq::exceptions::ActiveMQException)`

Sends a message to the broker to dispose of the given resource using a timed request.

- `virtual void fire (const exceptions::ActiveMQException &ex)`

Notify the exception listener.

6.17.1 Detailed Description

Concrete connection used for all connectors to the ActiveMQ broker.

6.17.2 Constructor & Destructor Documentation

- #### 6.17.2.1 `activemq::core::ActiveMQConnection::ActiveMQConnection (const Pointer< transport::Transport > & transport, const Pointer< decaf::util::Properties > & properties)`

Constructor.

Parameters:

transport (p. 67) The Transport requested for this connection to the Broker.

properties The Properties that were defined for this connection

6.17.2.2 `virtual activemq::core::ActiveMQConnection::~~ActiveMQConnection ()`
[virtual]

6.17.3 Member Function Documentation

6.17.3.1 `virtual void activemq::core::ActiveMQConnection::addDispatcher`
(const Pointer< commands::ConsumerId > & *consumer*, Dispatcher *
dispatcher) throw (cms::CMSException) [virtual]

Adds a dispatcher for a consumer.

Parameters:

consumer - The consumer for which to register a dispatcher.

dispatcher - The dispatcher to handle incoming messages for the consumer.

6.17.3.2 `virtual void activemq::core::ActiveMQConnection::addProducer`
(ActiveMQProducer * *producer*) throw (cms::CMSException) [virtual]

Adds an active Producer to the Set of known producers.

Parameters:

producer - The Producer to add from the the known set.

6.17.3.3 `virtual void activemq::core::ActiveMQConnection::close () throw (`
`cms::CMSException)` [virtual]

Closes this connection as well as any Sessions created from it (and those Sessions' consumers and producers).

Exceptions:

CMSException

Implements `cms::Connection` (p. 942).

6.17.3.4 `virtual cms::Session* activemq::core::ActiveMQConnection::createSession`
(cms::Session::AcknowledgeMode *ackMode*) throw (cms::CMSException)
[virtual]

Creates a new Session to work for this Connection using the specified acknowledgment mode.

Parameters:

ackMode the Acknowledgment Mode to use.

Exceptions:

CMSException

Implements `cms::Connection` (p. 942).

6.17.3.5 `virtual cms::Session* activemq::core::ActiveMQConnection::createSession
() throw (cms::CMSException) [virtual]`

Creates a new Session to work for this Connection.

Exceptions:

CMSException

Implements `cms::Connection` (p. 943).

6.17.3.6 `virtual void activemq::core::ActiveMQConnection::destroyDestination
(const cms::Destination * destination) throw (
decaf::lang::exceptions::NullPointerException,
decaf::lang::exceptions::IllegalStateException, de-
cafe::lang::exceptions::UnsupportedOperationException,
activemq::exceptions::ActiveMQException) [virtual]`

Requests that the Broker removes the given Destination. Calling this method implies that the client is finished with the Destination and that no other messages will be sent or received for the given Destination. The Broker frees all resources it has associated with this Destination.

Parameters:

destination The CMS Destination the Broker will be requested to remove.

Exceptions:

NullPointerException If the passed Destination is Null

IllegalStateException If the connection is closed.

UnsupportedOperationException If the wire format in use does not support this operation.

ActiveMQException If any other error occurs during the attempt to destroy the destination.

6.17.3.7 `virtual void activemq::core::ActiveMQConnection::destroyDestination
(const commands::ActiveMQDestination * destination)
throw (decaf::lang::exceptions::NullPointerException,
decaf::lang::exceptions::IllegalStateException, de-
cafe::lang::exceptions::UnsupportedOperationException,
activemq::exceptions::ActiveMQException) [virtual]`

Requests that the Broker removes the given Destination. Calling this method implies that the client is finished with the Destination and that no other messages will be sent or received for the given Destination. The Broker frees all resources it has associated with this Destination.

Parameters:

destination The Destination the Broker will be requested to remove.

Exceptions:

NullPointerException If the passed Destination is Null

IllegalStateException If the connection is closed.

UnsupportedOperationException If the wire format in use does not support this operation.

ActiveMQException If any other error occurs during the attempt to destroy the destination.

6.17.3.8 `void activemq::core::ActiveMQConnection::disposeOf (const Pointer< commands::DataStructure > & objectId, unsigned int timeout) throw (activemq::exceptions::ActiveMQException)`

Sends a message to the broker to dispose of the given resource using a timed request.

Parameters:

objectId The ID of the resource to be released.

timeout The time to wait for a response that the object is disposed.

Exceptions:

ConnectorException if any problems occur from sending the message.

6.17.3.9 `void activemq::core::ActiveMQConnection::disposeOf (const Pointer< commands::DataStructure > & objectId) throw (activemq::exceptions::ActiveMQException)`

Sends a message to the broker to dispose of the given resource using an async oneway call.

Parameters:

objectId The ID of the resource to be released.

Exceptions:

ConnectorException if any problems occur from sending the message.

6.17.3.10 `virtual void activemq::core::ActiveMQConnection::fire (const exceptions::ActiveMQException & ex) [virtual]`

Notify the exception listener.

Parameters:

ex the exception to fire

6.17.3.11 `virtual std::string activemq::core::ActiveMQConnection::getClientID () const [virtual]`

Get the Client Id for this session.

Returns:

string version of Client Id

Implements **cms::Connection** (p. 943).

6.17.3.12 `const commands::ConnectionId& activemq::core::ActiveMQConnection::getConnectionId () const throw (exceptions::ActiveMQException)`

Gets the ConnectionId for this Object, if the Connection is not open than this method throws an exception.

6.17.3.13 `const commands::ConnectionInfo& activemq::core::ActiveMQConnection::getConnectionInfo () const throw (exceptions::ActiveMQException)`

Gets the ConnectionInfo for this Object, if the Connection is not open than this method throws an exception.

6.17.3.14 `virtual cms::ExceptionListener* activemq::core::ActiveMQConnection::getExceptionListener () const [inline, virtual]`

Gets the registered Exception Listener for this connection.

Returns:

pointer to an exception listener or NULL

Implements **cms::Connection** (p. 943).

6.17.3.15 `virtual const cms::ConnectionMetaData* activemq::core::ActiveMQConnection::getMetaData () const throw (cms::CMSException) [inline, virtual]`

Gets the metadata for this connection.

Returns:

the connection MetaData pointer (caller does not own it).

Exceptions:

CMSException if the provider fails to get the connection metadata for this connection.

See also:

ConnectionMetaData

Since:

2.0

Implements **cms::Connection** (p. 943).

6.17.3.16 `bool activemq::core::ActiveMQConnection::isClosed () const [inline]`

Checks if this connection has been closed.

Returns:

true if the connection is closed

6.17.3.17 `bool activemq::core::ActiveMQConnection::isStarted () const [inline]`

Check if this connection has been started.

Returns:

true if the start method has been called.

6.17.3.18 `virtual void activemq::core::ActiveMQConnection::onCommand (const Pointer< commands::Command > & command) [virtual]`

Event handler for the receipt of a non-response command from the **transport** (p. 67).

Parameters:

command the received command object.

Implements **activemq::transport::TransportListener** (p. 2624).

6.17.3.19 `void activemq::core::ActiveMQConnection::oneway (Pointer< commands::Command > command) throw (activemq::exceptions::ActiveMQException)`

Sends a oneway message.

Parameters:

command The message to send.

Exceptions:

ConnectorException if not currently connected, or if the operation fails for any reason.

6.17.3.20 `virtual void activemq::core::ActiveMQConnection::onException (const decaf::lang::Exception & ex) [virtual]`

Event handler for an exception from a command **transport** (p. 67).

Parameters:

ex The exception.

Implements **activemq::transport::TransportListener** (p. 2625).

6.17.3.21 `virtual void activemq::core::ActiveMQConnection::removeDispatcher (const Pointer< commands::ConsumerId > & consumer) throw (cms::CMSException) [virtual]`

Removes the dispatcher for a consumer.

Parameters:

consumer - The consumer for which to remove the dispatcher.

6.17.3.22 `virtual void activemq::core::ActiveMQConnection::removeProducer (const Pointer< commands::ProducerId > & producerId) throw (cms::CMSException) [virtual]`

Removes an active Producer to the Set of known producers.

Parameters:

producerId - The ProducerId to remove from the the known set.

6.17.3.23 `virtual void activemq::core::ActiveMQConnection::removeSession (ActiveMQSession * session) throw (cms::CMSException) [virtual]`

Removes the session resources for the given session instance.

Parameters:

session The session to be unregistered from this connection.

6.17.3.24 `virtual void activemq::core::ActiveMQConnection::sendPullRequest (const commands::ConsumerInfo * consumer, long long timeout) throw (exceptions::ActiveMQException) [virtual]`

If supported sends a message pull request to the service provider asking for the delivery of a new message. This is used in the case where the service provider has been configured with a zero prefetch or is only capable of delivering messages on a pull basis.

Parameters:

consumer - the ConsumerInfo for the requesting Consumer.

timeout - the time that the client is willing to wait.

6.17.3.25 `virtual void activemq::core::ActiveMQConnection::setExceptionHandler (cms::ExceptionHandler * listener) [inline, virtual]`

Sets the registered Exception Listener for this connection.

Parameters:

listener pointer to and ExceptionListener

Implements `cms::Connection` (p. 944).

6.17.3.26 `virtual void activemq::core::ActiveMQConnection::start () throw (cms::CMSException) [virtual]`

Starts or (restarts) a connections delivery of incoming messages.

Exceptions:

CMSException

Implements **cms::Startable** (p. 2413).

6.17.3.27 `virtual void activemq::core::ActiveMQConnection::stop () throw (cms::CMSException) [virtual]`

Stop the flow of incoming messages.

Exceptions:

CMSException

Implements **cms::Stoppable** (p. 2471).

6.17.3.28 `void activemq::core::ActiveMQConnection::syncRequest (Pointer< commands::Command > command, unsigned int timeout = 0) throw (activemq::exceptions::ActiveMQException)`

Sends a synchronous request and returns the response from the broker. Converts any error responses into an exception.

Parameters:

command The request command.

timeout The time to wait for a response, default is zero or infinite.

Exceptions:

ConnectorException thrown if an error response was received from the broker, or if any other error occurred.

6.17.3.29 `virtual void activemq::core::ActiveMQConnection::transportInterrupted () [virtual]`

The **transport** (p. 67) has suffered an interruption from which it hopes to recover.

Implements **activemq::transport::TransportListener** (p. 2625).

The documentation for this class was generated from the following file:

- `src/main/activemq/core/ActiveMQConnection.h`

6.18 activemq::core::ActiveMQConnectionFactory Class Reference

#include <src/main/activemq/core/ActiveMQConnectionFactory.h> Inheritance diagram for activemq::core::ActiveMQConnectionFactory:

Public Member Functions

- **ActiveMQConnectionFactory** ()
- **ActiveMQConnectionFactory** (const std::string &url, const std::string &username="", const std::string &password="")
Constructor.
- virtual ~**ActiveMQConnectionFactory** ()
- virtual **cms::Connection** * **createConnection** () throw (cms::CMSException)
Creates a connection with the default user identity.
- virtual **cms::Connection** * **createConnection** (const std::string &username, const std::string &password) throw (cms::CMSException)
Creates a connection with the specified user identity.
- virtual **cms::Connection** * **createConnection** (const std::string &username, const std::string &password, const std::string &clientId) throw (cms::CMSException)
Creates a connection with the specified user identity.
- virtual void **setUsername** (const std::string &username)
Sets the username that should be used when creating a new connection.
- virtual const std::string & **getUsername** () const
Gets the username that this factory will use when creating a new connection instance.
- virtual void **setPassword** (const std::string &password)
Sets the password that should be used when creating a new connection.
- virtual const std::string & **getPassword** () const
Gets the password that this factory will use when creating a new connection instance.
- virtual void **setBrokerURL** (const std::string &brokerURL)
Sets the Broker URL that should be used when creating a new connection instance.
- virtual const std::string & **getBrokerURL** () const
Gets the Broker URL that this factory will use when creating a new connection instance.

Static Public Member Functions

- static **cms::Connection * createConnection** (const std::string &url, const std::string &username, const std::string &password, const std::string &clientId="") throw (cms::CMSException)

Creates a connection with the specified user identity.

6.18.1 Constructor & Destructor Documentation

6.18.1.1 **activemq::core::ActiveMQConnectionFactory::ActiveMQConnectionFactory**
()

6.18.1.2 **activemq::core::ActiveMQConnectionFactory::ActiveMQConnectionFactory**
(const std::string & url, const std::string & username = "", const
std::string & password = "")

Constructor.

Parameters:

url the URL of the Broker we are connecting to.

username to authenticate with, defaults to ""

password to authenticate with, defaults to ""

6.18.1.3 **virtual**
activemq::core::ActiveMQConnectionFactory::~~ActiveMQConnectionFactory
() [inline, virtual]

6.18.2 Member Function Documentation

6.18.2.1 **static cms::Connection* ac-**
tivemq::core::ActiveMQConnectionFactory::createConnection (const
std::string & url, const std::string & username, const std::string &
password, const std::string & *clientId* = "") throw (cms::CMSException
) [static]

Creates a connection with the specified user identity. The connection is created in stopped mode. No messages will be delivered until the Connection.start method is explicitly called.

Parameters:

url the URL of the Broker we are connecting to.

username to authenticate with

password to authenticate with

clientId to assign to connection, defaults to ""

Exceptions:

CMSException.

6.18.2.2 `virtual cms::Connection* activemq::core::ActiveMQConnectionFactory::createConnection (const std::string & username, const std::string & password, const std::string & clientId) throw (cms::CMSEException)` [virtual]

Creates a connection with the specified user identity. The connection is created in stopped mode. No messages will be delivered until the Connection.start method is explicitly called. The username and password values passed here do not change the defaults, subsequent calls to the parameterless createConnection will continue to use the default values that were set in the Constructor.

Parameters:

username to authenticate with

password to authenticate with

clientId to assign to connection if "" then a random client Id is created for this connection.

Returns:

a Connection Pointer

Exceptions:

CMSEException

Implements `cms::ConnectionFactory` (p. 979).

6.18.2.3 `virtual cms::Connection* activemq::core::ActiveMQConnectionFactory::createConnection (const std::string & username, const std::string & password) throw (cms::CMSEException)` [virtual]

Creates a connection with the specified user identity. The connection is created in stopped mode. No messages will be delivered until the Connection.start method is explicitly called. The username and password values passed here do not change the defaults, subsequent calls to the parameterless createConnection will continue to use the default values that were set in the Constructor.

Parameters:

username to authenticate with

password to authenticate with

Returns:

a Connection Pointer

Exceptions:

CMSEException

Implements `cms::ConnectionFactory` (p. 980).

6.18.2.4 `virtual cms::Connection* activemq::core::ActiveMQConnectionFactory::createConnection () throw (cms::CMSEException)` [virtual]

Creates a connection with the default user identity. The connection is created in stopped mode. No messages will be delivered until the Connection.start method is explicitly called.

Returns:

a Connection Pointer

Exceptions:

CMSException

Implements **cms::ConnectionFactory** (p. 980).

6.18.2.5 `virtual const std::string& activemq::core::ActiveMQConnectionFactory::getBrokerURL () const [inline, virtual]`

Gets the Broker URL that this factory will use when creating a new connection instance.

Returns:

brokerURL string

6.18.2.6 `virtual const std::string& activemq::core::ActiveMQConnectionFactory::getPassword () const [inline, virtual]`

Gets the password that this factory will use when creating a new connection instance.

Returns:

password string, "" for default credentials

6.18.2.7 `virtual const std::string& activemq::core::ActiveMQConnectionFactory::getUsername () const [inline, virtual]`

Gets the username that this factory will use when creating a new connection instance.

Returns:

username string, "" for default credentials

6.18.2.8 `virtual void activemq::core::ActiveMQConnectionFactory::setBrokerURL (const std::string & brokerURL) [inline, virtual]`

Sets the Broker URL that should be used when creating a new connection instance.

Parameters:

brokerURL string

6.18.2.9 `virtual void activemq::core::ActiveMQConnectionFactory::setPassword
(const std::string & password)` [inline, virtual]

Sets the password that should be used when creating a new connection.

Parameters:

password string

6.18.2.10 `virtual void activemq::core::ActiveMQConnectionFactory::setUsername
(const std::string & username)` [inline, virtual]

Sets the username that should be used when creating a new connection.

Parameters:

username string

The documentation for this class was generated from the following file:

- `src/main/activemq/core/ActiveMQConnectionFactory.h`

6.19 activemq::core::ActiveMQConnectionMetaData Class Reference

This class houses all the various settings and information that is used by an instance of an **ActiveMQConnection** (p. 190) class.

#include <src/main/activemq/core/ActiveMQConnectionMetaData.h> Inheritance diagram for activemq::core::ActiveMQConnectionMetaData:

Public Member Functions

- **ActiveMQConnectionMetaData** ()
- virtual **~ActiveMQConnectionMetaData** ()
- virtual std::string **getCMSVersion** () const throw (cms::CMSEException)
Gets the CMS API version.
- virtual int **getCMSMajorVersion** () const throw (cms::CMSEException)
Gets the CMS major version number.
- virtual int **getCMSMinorVersion** () const throw (cms::CMSEException)
Gets the CMS minor version number.
- virtual std::string **getCMSProviderName** () const throw (cms::CMSEException)
Gets the CMS provider name.
- virtual std::string **getProviderVersion** () const throw (cms::CMSEException)
Gets the CMS provider version.
- virtual int **getProviderMajorVersion** () const throw (cms::CMSEException)
Gets the CMS provider major version number.
- virtual int **getProviderMinorVersion** () const throw (cms::CMSEException)
Gets the CMS provider minor version number.
- virtual std::vector< std::string > **getCMSXPropertyNames** () const throw (cms::CMSEException)
Gets an Vector of the CMSX property names.

6.19.1 Detailed Description

This class houses all the various settings and information that is used by an instance of an **ActiveMQConnection** (p. 190) class.

Since:

3.0

6.19.2 Constructor & Destructor Documentation

6.19.2.1 `activemq::core::ActiveMQConnectionMetaData::ActiveMQConnectionMetaData()`

6.19.2.2 `virtual activemq::core::ActiveMQConnectionMetaData::~~ActiveMQConnectionMetaData()` [virtual]

6.19.3 Member Function Documentation

6.19.3.1 `virtual int activemq::core::ActiveMQConnectionMetaData::getCMSMajorVersion()`
`const throw (cms::CMSEException)` [virtual]

Gets the CMS major version number.

Returns:

the CMS API major version number

Exceptions:

CMSEException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements `cms::ConnectionMetaData` (p.1016).

6.19.3.2 `virtual int activemq::core::ActiveMQConnectionMetaData::getCMSMinorVersion()`
`const throw (cms::CMSEException)` [virtual]

Gets the CMS minor version number.

Returns:

the CMS API minor version number

Exceptions:

CMSEException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements `cms::ConnectionMetaData` (p.1016).

6.19.3.3 `virtual std::string activemq::core::ActiveMQConnectionMetaData::getCMSProviderName()`
`const throw (cms::CMSEException)` [virtual]

Gets the CMS provider name.

Returns:

the CMS provider name

Exceptions:

CMSException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements **cms::ConnectionMetaData** (p.1016).

6.19.3.4 `virtual std::string activemq::core::ActiveMQConnectionMetaData::getCMSVersion () const throw (cms::CMSException) [virtual]`

Gets the CMS API version.

Returns:

the CMS API Version in String form.

Exceptions:

CMSException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements **cms::ConnectionMetaData** (p.1017).

6.19.3.5 `virtual std::vector<std::string> activemq::core::ActiveMQConnectionMetaData::getCMSXPropertyNames () const throw (cms::CMSException) [virtual]`

Gets an Vector of the CMSX property names.

Returns:

an Vector of CMSX property names

Exceptions:

CMSException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements **cms::ConnectionMetaData** (p.1017).

6.19.3.6 `virtual int activemq::core::ActiveMQConnectionMetaData::getProviderMajorVersion () const throw (cms::CMSException) [virtual]`

Gets the CMS provider major version number.

Returns:

the CMS provider major version number

Exceptions:

CMSException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements **cms::ConnectionMetaData** (p.1017).

6.19.3.7 `virtual int activemq::core::ActiveMQConnectionMetaData::getProviderMinorVersion () const throw (cms::CMSException) [virtual]`

Gets the CMS provider minor version number.

Returns:

the CMS provider minor version number

Exceptions:

CMSException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements **cms::ConnectionMetaData** (p.1017).

6.19.3.8 `virtual std::string activemq::core::ActiveMQConnectionMetaData::getProviderVersion () const throw (cms::CMSException) [virtual]`

Gets the CMS provider version.

Returns:

the CMS provider version

Exceptions:

CMSException If the CMS Provider fails to retrieve the metadata due to some internal error.

Implements **cms::ConnectionMetaData** (p.1018).

The documentation for this class was generated from the following file:

- `src/main/activemq/core/ActiveMQConnectionMetaData.h`

6.20 activemq::core::ActiveMQConnectionSupport Class Reference

#include <src/main/activemq/core/ActiveMQConnectionSupport.h> Inheritance diagram for activemq::core::ActiveMQConnectionSupport:

Public Member Functions

- **ActiveMQConnectionSupport** (const **Pointer**< **transport::Transport** > &transport, const **Pointer**< **decaf::util::Properties** > &properties)
*Creates an instance of the **ActiveMQConnectionSupport** (p. 209) class, the most common properties for a connection are pulled from the properties instance or are set to defaults.*
- virtual ~**ActiveMQConnectionSupport** ()
- virtual void **startupTransport** () throw (**decaf::lang::Exception**)
Starts the Transport, this should initiate the connection between this client and the Transports endpoint.
- virtual void **shutdownTransport** () throw (**decaf::lang::Exception**)
Closes this object and deallocates the appropriate resources.
- const **decaf::util::Properties** & **getProperties** () const
Gets the Properties object that this Config object was initialized with.
- **transport::Transport** & **getTransport** () const
Gets the Transport Configured for this Connection.
- bool **isAlwaysSyncSend** () const
Gets if the Connection should always send things Synchronously.
- void **setAlwaysSyncSend** (bool value)
Sets if the Connection should always send things Synchronously.
- bool **isUseAsyncSend** () const
Gets if the useAsyncSend option is set.
- void **setUseAsyncSend** (bool value)
Sets the useAsyncSend option.
- unsigned int **getSendTimeout** () const
Gets the assigned send timeout for this Connector.
- void **setSendTimeout** (unsigned int timeout)
Sets the send timeout to use when sending Message objects, this will cause all messages to be sent using a Synchronous request is non-zero.
- unsigned int **getCloseTimeout** () const
Gets the assigned close timeout for this Connector.

- void **setCloseTimeout** (unsigned int timeout)
Sets the close timeout to use when sending the disconnect request.
- unsigned int **getProducerWindowSize** () const
Gets the configured producer window size for Producers that are created from this connector.
- void **setProducerWindowSize** (unsigned int windowSize)
Sets the size in Bytes of messages that a producer can send before it is blocked to await a ProducerAck from the broker that frees enough memory to allow another message to be sent.
- std::string **getUsername** () const
Gets the Configured Username.
- void **setUsername** (const std::string &username)
Sets the Username.
- std::string **getPassword** () const
Gets the Configured Password.
- void **setPassword** (const std::string &password)
Sets the Password.
- std::string **getClientId** () const
Gets the Configured Client Id.
- void **setClientId** (const std::string &clientId)
Sets the Client Id.
- long long **getNextSessionId** ()
Get the Next available Session Id.
- long long **getNextTempDestinationId** ()
Get the Next Temporary Destination Id.
- virtual void **transportResumed** ()
*The **transport** (p. 67) has resumed after an interruption.*

6.20.1 Constructor & Destructor Documentation

6.20.1.1 **activemq::core::ActiveMQConnectionSupport::ActiveMQConnectionSupport** (const Pointer< transport::Transport > & *transport*, const Pointer< decaf::util::Properties > & *properties*)

Creates an instance of the **ActiveMQConnectionSupport** (p. 209) class, the most common properties for a connection are pulled from the properties instance or are set to defaults.

Parameters:

transport (p. 67) The Transport that this Connection will use for sending Commands to the Broker.

properties The URI configured properties for this connection.

6.20.1.2 `virtual
activemq::core::ActiveMQConnectionSupport::~~ActiveMQConnectionSupport
() [virtual]`

6.20.2 Member Function Documentation

6.20.2.1 `std::string activemq::core::ActiveMQConnectionSupport::getClientId ()
const [inline]`

Gets the Configured Client Id.

Returns:

the clientId.

6.20.2.2 `unsigned int ac-
tivemq::core::ActiveMQConnectionSupport::getCloseTimeout () const
[inline]`

Gets the assigned close timeout for this Connector.

Returns:

the close timeout configured in the connection uri

6.20.2.3 `long long activemq::core::ActiveMQConnectionSupport::getNextSessionId
() [inline]`

Get the Next available Session Id.

Returns:

the next id in the sequence.

6.20.2.4 `long long ac-
tivemq::core::ActiveMQConnectionSupport::getNextTempDestinationId ()
[inline]`

Get the Next Temporary Destination Id.

Returns:

the next id in the sequence.

6.20.2.5 `std::string activemq::core::ActiveMQConnectionSupport::getPassword ()
const [inline]`

Gets the Configured Password.

Returns:

the password.

6.20.2.6 `unsigned int activemq::core::ActiveMQConnectionSupport::getProducerWindowSize () const [inline]`

Gets the configured producer window size for Producers that are created from this connector. This only applies if there is no send timeout and the producer is able to send asynchronously.

Returns:

size in bytes of messages that this producer can produce before it must block and wait for ProducerAck messages to free resources.

6.20.2.7 `const decaf::util::Properties& activemq::core::ActiveMQConnectionSupport::getProperties () const [inline]`

Gets the Properties object that this Config object was initialized with.

Returns:

a const reference to the Connection Config.

References `decaf::lang::Pointer< T, REFCOUNTER >::get()`.

6.20.2.8 `unsigned int activemq::core::ActiveMQConnectionSupport::getSendTimeout () const [inline]`

Gets the assigned send timeout for this Connector.

Returns:

the send timeout configured in the connection uri

6.20.2.9 `transport::Transport& activemq::core::ActiveMQConnectionSupport::getTransport () const [inline]`

Gets the Transport Configured for this Connection.

Returns:

the configured **transport** (p. 67)

References `decaf::lang::Pointer< T, REFCOUNTER >::get()`.

6.20.2.10 `std::string activemq::core::ActiveMQConnectionSupport::getUsername ()`
`const [inline]`

Gets the Configured Username.

Returns:

the username.

6.20.2.11 `bool activemq::core::ActiveMQConnectionSupport::isAlwaysSyncSend ()`
`const [inline]`

Gets if the Connection should always send things Synchronously.

Returns:

true if sends should always be Synchronous.

6.20.2.12 `bool activemq::core::ActiveMQConnectionSupport::isUseAsyncSend ()`
`const [inline]`

Gets if the useAsyncSend option is set.

Returns:

true if on false if not.

6.20.2.13 `void activemq::core::ActiveMQConnectionSupport::setAlwaysSyncSend`
`(bool value) [inline]`

Sets if the Connection should always send things Synchronously.

Parameters:

value true if sends should always be Synchronous.

6.20.2.14 `void activemq::core::ActiveMQConnectionSupport::setClientId (const`
`std::string & clientId) [inline]`

Sets the Client Id.

Parameters:

clientId - The new clientId value.

6.20.2.15 `void activemq::core::ActiveMQConnectionSupport::setCloseTimeout`
`(unsigned int timeout) [inline]`

Sets the close timeout to use when sending the disconnect request.

Parameters:

timeout - The time to wait for a close message.

6.20.2.16 `void activemq::core::ActiveMQConnectionSupport::setPassword (const std::string & password) [inline]`

Sets the Password.

Parameters:

password - The new password value.

6.20.2.17 `void activemq::core::ActiveMQConnectionSupport::setProducerWindowSize (unsigned int windowSize) [inline]`

Sets the size in Bytes of messages that a producer can send before it is blocked to await a ProducerAck from the broker that frees enough memory to allow another message to be sent.

Parameters:

windowSize - The size in bytes of the Producers memory window.

6.20.2.18 `void activemq::core::ActiveMQConnectionSupport::setSendTimeout (unsigned int timeout) [inline]`

Sets the send timeout to use when sending Message objects, this will cause all messages to be sent using a Synchronous request is non-zero.

Parameters:

timeout - The time to wait for a response.

6.20.2.19 `void activemq::core::ActiveMQConnectionSupport::setUseAsyncSend (bool value) [inline]`

Sets the useAsyncSend option.

Parameters:

value - true to activate, false to disable.

6.20.2.20 `void activemq::core::ActiveMQConnectionSupport::setUsername (const std::string & username) [inline]`

Sets the Username.

Parameters:

username - The new username value.

6.20.2.21 virtual void activemq::core::ActiveMQConnectionSupport::shutdownTransport () throw (decaf::lang::Exception) [virtual]

Closes this object and deallocates the appropriate resources. The object is generally no longer usable after calling close.

Exceptions:

Exception

6.20.2.22 virtual void activemq::core::ActiveMQConnectionSupport::startupTransport () throw (decaf::lang::Exception) [virtual]

Starts the Transport, this should initiate the connection between this client and the Transports endpoint.

Exceptions:

Exception

6.20.2.23 virtual void activemq::core::ActiveMQConnectionSupport::transportResumed () [inline, virtual]

The **transport** (p.67) has resumed after an interruption.

Implements **activemq::transport::TransportListener** (p. 2625).

The documentation for this class was generated from the following file:

- src/main/activemq/core/**ActiveMQConnectionSupport.h**

6.21 activemq::core::ActiveMQConstants Class Reference

Class holding constant values for various ActiveMQ specific things Each constant is defined as an enumeration and has functions that convert back and forth between string and enum values.

```
#include <src/main/activemq/core/ActiveMQConstants.h>
```

Data Structures

- class `StaticInitializer`

Public Types

- enum `TransactionState` {
`TRANSACTION_STATE_BEGIN` = 0, `TRANSACTION_STATE_PREPARE` = 1, `TRANSACTION_STATE_COMMITONEPHASE` = 2, `TRANSACTION_STATE_COMMITTWOPHASE` = 3,
`TRANSACTION_STATE_ROLLBACK` = 4, `TRANSACTION_STATE_RECOVER` = 5, `TRANSACTION_STATE_FORGET` = 6, `TRANSACTION_STATE_END` = 7 }
 - enum `DestinationActions` { `DESTINATION_ADD_OPERATION` = 0, `DESTINATION_REMOVE_OPERATION` = 1 }
 - enum `AckType` {
`ACK_TYPE_DELIVERED` = 0, `ACK_TYPE_POISON` = 1, `ACK_TYPE_CONSUMED` = 2, `ACK_TYPE_REDELIVERED` = 3,
`ACK_TYPE_INDIVIDUAL` = 4 }
 - enum `DestinationOption` {
`CONSUMER_PREFETCHSIZE`, `CONSUMER_MAXPENDINGMSGLIMIT`, `CONSUMER_NOLOCAL`, `CONSUMER_DISPATCHASYNC`,
`CONSUMER_RETROACTIVE`, `CONSUMER_SELECTOR`, `CONSUMER_EXCLUSIVE`, `CONSUMER_PRIORITY`,
`NUM_OPTIONS` }
- These values represent the options that can be appended to an Destination name, i.e.*
- enum `URIParam` {
`CONNECTION_SENDTIMEOUT`, `CONNECTION_PRODUCERWINDOWSIZE`, `CONNECTION_CLOSETIMEOUT`,
`CONNECTION_ALWAYSSENDCONNECTION_USEASYNCSEND`, `PARAM_USERNAME`, `PARAM_PASSWORD`, `PARAM_CLIENTID`,
`NUM_PARAMS` }
- These values represent the parameters that can be added to the connection URI that affect the ActiveMQ Core API.*

Static Public Member Functions

- static const std::string & **toString** (const **DestinationOption** option)
- static **DestinationOption** **toDestinationOption** (const std::string &option)
- static const std::string & **toString** (const **URIParam** option)
- static **URIParam** **toURIOption** (const std::string &option)

6.21.1 Detailed Description

Class holding constant values for various ActiveMQ specific things Each constant is defined as an enumeration and has functions that convert back and forth between string and enum values.

6.21.2 Member Enumeration Documentation

6.21.2.1 enum activemq::core::ActiveMQConstants::AckType

Enumerator:

```
ACK_TYPE_DELIVERED
ACK_TYPE_POISON
ACK_TYPE_CONSUMED
ACK_TYPE_REDELIVERED
ACK_TYPE_INDIVIDUAL
```

6.21.2.2 enum activemq::core::ActiveMQConstants::DestinationActions

Enumerator:

```
DESTINATION_ADD_OPERATION
DESTINATION_REMOVE_OPERATION
```

6.21.2.3 enum activemq::core::ActiveMQConstants::DestinationOption

These values represent the options that can be appended to an Destination name, i.e. /topic/-foo?consumer.exclusive=true

Enumerator:

```
CONSUMER_PREFETCHSIZE
CUNSUMER_MAXPENDINGMSGLIMIT
CONSUMER_NOLOCAL
CONSUMER_DISPATCHASYNC
CONSUMER_RETROACTIVE
CONSUMER_SELECTOR
CONSUMER_EXCLUSIVE
CONSUMER_PRIORITY
NUM_OPTIONS
```

6.21.2.4 enum activemq::core::ActiveMQConstants::TransactionState

Enumerator:

```
TRANSACTION_STATE_BEGIN
TRANSACTION_STATE_PREPARE
TRANSACTION_STATE_COMMITONEPHASE
TRANSACTION_STATE_COMMITTWOPHASE
TRANSACTION_STATE_ROLLBACK
TRANSACTION_STATE_RECOVER
TRANSACTION_STATE_FORGET
TRANSACTION_STATE_END
```

6.21.2.5 enum activemq::core::ActiveMQConstants::URIParam

These values represent the parameters that can be added to the connection URI that affect the ActiveMQ Core API.

Enumerator:

```
CONNECTION_SENDTIMEOUT
CONNECTION_PRODUCERWINDOWSIZE
CONNECTION_CLOSETIMEOUT
CONNECTION_ALWAYS_SYNC_SEND
CONNECTION_USE_ASYNC_SEND
PARAM_USERNAME
PARAM_PASSWORD
PARAM_CLIENTID
NUM_PARAMS
```

6.21.3 Member Function Documentation

6.21.3.1 static DestinationOption activemq::core::ActiveMQConstants::toDestinationOption
(const std::string & *option*) [inline, static]

6.21.3.2 static const std::string& activemq::core::ActiveMQConstants::toString
(const URIParam *option*) [inline, static]

6.21.3.3 static const std::string& activemq::core::ActiveMQConstants::toString
(const DestinationOption *option*) [inline, static]

6.21.3.4 static URIParam activemq::core::ActiveMQConstants::toURIOption
(const std::string & *option*) [inline, static]

The documentation for this class was generated from the following file:

- src/main/activemq/core/ActiveMQConstants.h

6.22 activemq::core::ActiveMQConsumer Class Reference

#include <src/main/activemq/core/ActiveMQConsumer.h> Inheritance diagram for activemq::core::ActiveMQConsumer:

Public Member Functions

- **ActiveMQConsumer** (const **Pointer**< **commands::ConsumerInfo** > &consumerInfo, **ActiveMQSession** *session, const **Pointer**< **ActiveMQTransactionContext** > &transaction)
Constructor.
- virtual ~**ActiveMQConsumer** ()
- virtual void **start** ()
Starts the Consumer if not already started and not closed.
- virtual void **stop** ()
Stops a Consumer, the Consumer will not deliver any messages that are dispatched to it until it is started again.
- virtual void **close** () throw (cms::CMSEException)
Closes the Consumer.
- virtual **cms::Message** * **receive** () throw (cms::CMSEException)
Synchronously Receive a Message.
- virtual **cms::Message** * **receive** (int millisecs) throw (cms::CMSEException)
Synchronously Receive a Message, time out after defined interval.
- virtual **cms::Message** * **receiveNoWait** () throw (cms::CMSEException)
Receive a Message, does not wait if there isn't a new message to read, returns NULL if nothing read.
- virtual void **setMessageListener** (**cms::MessageListener** *listener) throw (cms::CMSEException)
Sets the MessageListener that this class will send notifys on.
- virtual **cms::MessageListener** * **getMessageListener** () const throw (cms::CMSEException)
Gets the MessageListener that this class will send events to.
- virtual std::string **getMessageSelector** () const throw (cms::CMSEException)
Gets this message consumer's message selector expression.
- virtual void **acknowledgeMessage** (const **commands::Message** *message) throw (cms::CMSEException)
Method called to acknowledge the message passed, called from a message when the mode is client ack.

- virtual void **dispatch** (const **Pointer**< **MessageDispatch** > &message)
Called asynchronously by the session to dispatch a message.
- void **acknowledge** () throw (cms::CMSEException)
Method called to acknowledge all messages that have been received so far.
- void **commit** () throw (exceptions::ActiveMQException)
Called to Commit the current set of messages in this Transaction.
- void **rollback** () throw (exceptions::ActiveMQException)
Called to Roll back the current set of messages in this Transaction.
- void **doClose** () throw (exceptions::ActiveMQException)
Performs the actual close operation on this consumer.
- const **commands::ConsumerInfo** & **getConsumerInfo** () const
Get the Consumer information for this consumer.
- const **commands::ConsumerId** & **getConsumerId** () const
Get the Consumer Id for this consumer.
- bool **isClosed** () const
- bool **issynchronizationRegistered** () const
*Has this Consumer Transaction **Synchronization** (p. 2516) been added to the transaction.*
- void **setSynchronizationRegistered** (bool value)
*Sets the **Synchronization** (p. 2516) Registered **state** (p. 65) of this consumer.*
- bool **iterate** ()
Deliver any pending messages to the registered MessageListener if there is one, return true if not all dispatched, or false if no listener or all pending messages have been dispatched.
- void **deliverAcks** () throw (exceptions::ActiveMQException)
Forces this consumer to send all pending acks to the broker.
- void **clearMessagesInProgress** ()
Called on a Failover to clear any pending messages.

Protected Member Functions

- **Pointer**< **MessageDispatch** > **dequeue** (long long timeout) throw (cms::CMSEException)
Used by synchronous receive methods to wait for messages to come in.
- void **beforeMessageIsConsumed** (const **Pointer**< **commands::MessageDispatch** > &dispatch)
Pre-consume processing.

- void **afterMessageIsConsumed** (const Pointer< commands::MessageDispatch > &dispatch, bool messageExpired)
Post-consume processing.

6.22.1 Constructor & Destructor Documentation

- 6.22.1.1** **activemq::core::ActiveMQConsumer::ActiveMQConsumer** (const Pointer< commands::ConsumerInfo > & *consumerInfo*, ActiveMQSession * *session*, const Pointer< ActiveMQTransactionContext > & *transaction*)

Constructor.

- 6.22.1.2** **virtual activemq::core::ActiveMQConsumer::~~ActiveMQConsumer** ()
[virtual]

6.22.2 Member Function Documentation

- 6.22.2.1** **void activemq::core::ActiveMQConsumer::acknowledge** () throw (cms::CMSException)

Method called to acknowledge all messages that have been received so far.

Exceptions:

CMSException

- 6.22.2.2** **virtual void activemq::core::ActiveMQConsumer::acknowledgeMessage** (const commands::Message * *message*) throw (cms::CMSException)
[virtual]

Method called to acknowledge the message passed, called from a message when the mode is client ack.

Parameters:

message the Message to Acknowledge

Exceptions:

CMSException

Implements **activemq::core::ActiveMQAckHandler** (p.145).

- 6.22.2.3** **void activemq::core::ActiveMQConsumer::afterMessageIsConsumed** (const Pointer< commands::MessageDispatch > & *dispatch*, bool *messageExpired*) [protected]

Post-consume processing.

Parameters:

dispatch - the consumed message

messageExpired - flag indicating if the message has expired.

6.22.2.4 `void activemq::core::ActiveMQConsumer::beforeMessageIsConsumed (const Pointer< commands::MessageDispatch > & dispatch)` [protected]

Pre-consume processing.

Parameters:

dispatch - the message being consumed.

6.22.2.5 `void activemq::core::ActiveMQConsumer::clearMessagesInProgress ()`

Called on a Failover to clear any pending messages.

6.22.2.6 `virtual void activemq::core::ActiveMQConsumer::close () throw (cms::CMSException)` [virtual]

Closes the Consumer. This will return all allocated resources and purge any outstanding messages. This method will block if there is a call to receive in progress, or a dispatch to a MessageListener in place

Exceptions:

CMSException

Implements `cms::Closeable` (p. 838).

6.22.2.7 `void activemq::core::ActiveMQConsumer::commit () throw (exceptions::ActiveMQException)`

Called to Commit the current set of messages in this Transaction.

Exceptions:

ActiveMQException

6.22.2.8 `void activemq::core::ActiveMQConsumer::deliverAcks () throw (exceptions::ActiveMQException)`

Forces this consumer to send all pending acks to the broker.

6.22.2.9 `Pointer<MessageDispatch> activemq::core::ActiveMQConsumer::dequeue (long long timeout) throw (cms::CMSException)` [protected]

Used by synchronous receive methods to wait for messages to come in.

Parameters:

timeout - The maximum number of milliseconds to wait before returning. If -1, it will block until a messages is received or this consumer is closed. If 0, will not block at all. If > 0, will wait at a maximum the specified number of milliseconds before returning.

Returns:

the message, if received within the allotted time. Otherwise NULL.

Exceptions:

InvalidStateException if this consumer is closed upon entering this method.

6.22.2.10 virtual void activemq::core::ActiveMQConsumer::dispatch (const Pointer< MessageDispatch > & message) [virtual]

Called asynchronously by the session to dispatch a message.

Parameters:

message dispatch object pointer

Implements **activemq::core::Dispatcher** (p. 1230).

6.22.2.11 void activemq::core::ActiveMQConsumer::doClose () throw (exceptions::ActiveMQException)

Performs the actual close operation on this consumer.

Exceptions:

ActiveMQException

6.22.2.12 const commands::ConsumerId& activemq::core::ActiveMQConsumer::getConsumerId () const [inline]

Get the Consumer Id for this consumer.

Returns:

Reference to a Consumer Id Object

6.22.2.13 const commands::ConsumerInfo& activemq::core::ActiveMQConsumer::getConsumerInfo () const [inline]

Get the Consumer information for this consumer.

Returns:

Reference to a Consumer Info Object

6.22.2.14 `virtual cms::MessageListener* activemq::core::ActiveMQConsumer::getMessageListener () const throw (cms::CMSEException) [inline, virtual]`

Gets the MessageListener that this class will send events to.

Returns:

the currently registered MessageListener interface pointer.

Implements `cms::MessageConsumer` (p. 1796).

6.22.2.15 `virtual std::string activemq::core::ActiveMQConsumer::getMessageSelector () const throw (cms::CMSEException) [virtual]`

Gets this message consumer's message selector expression.

Returns:

This Consumer's selector expression or "".

Exceptions:

cms::CMSEException (p. 850)

Implements `cms::MessageConsumer` (p. 1796).

6.22.2.16 `bool activemq::core::ActiveMQConsumer::isClosed () const [inline]`

Returns:

if this Consumer has been closed.

6.22.2.17 `bool activemq::core::ActiveMQConsumer::issynchronizationRegistered () const [inline]`

Has this Consumer Transaction **Synchronization** (p. 2516) been added to the transaction.

Returns:

true if the synchronization has been added.

6.22.2.18 `bool activemq::core::ActiveMQConsumer::iterate ()`

Deliver any pending messages to the registered MessageListener if there is one, return true if not all dispatched, or false if no listener or all pending messages have been dispatched.

6.22.2.19 `virtual cms::Message* activemq::core::ActiveMQConsumer::receive (int millisecs) throw (cms::CMSEException) [virtual]`

Synchronously Receive a Message, time out after defined interval. Returns null if nothing read.

Parameters:

millisecs the time in milliseconds to wait before returning

Returns:

new message or null on timeout

Exceptions:

CMSException

Implements **cms::MessageConsumer** (p. 1796).

6.22.2.20 `virtual cms::Message* activemq::core::ActiveMQConsumer::receive ()
throw (cms::CMSException) [virtual]`

Synchronously Receive a Message.

Returns:

new message

Exceptions:

CMSException

Implements **cms::MessageConsumer** (p. 1797).

6.22.2.21 `virtual cms::Message* ac-
tivismq::core::ActiveMQConsumer::receiveNoWait ()
throw (cms::CMSException) [virtual]`

Receive a Message, does not wait if there isn't a new message to read, returns NULL if nothing read.

Returns:

new message

Exceptions:

CMSException

Implements **cms::MessageConsumer** (p. 1797).

6.22.2.22 `void activemq::core::ActiveMQConsumer::rollback () throw (
exceptions::ActiveMQException)`

Called to Roll back the current set of messages in this Transaction.

Exceptions:

ActiveMQException

6.22.2.23 `virtual void activemq::core::ActiveMQConsumer::setMessageListener (cms::MessageListener * listener) throw (cms::CMSException)`
[virtual]

Sets the MessageListener that this class will send notifs on.

Parameters:

listener MessageListener interface pointer

Implements `cms::MessageConsumer` (p. 1797).

6.22.2.24 `void activemq::core::ActiveMQConsumer::setSynchronizationRegistered (bool value)` [inline]

Sets the **Synchronization** (p. 2516) Registered **state** (p. 65) of this consumer.

Parameters:

value - true if registered false otherwise.

6.22.2.25 `virtual void activemq::core::ActiveMQConsumer::start ()` [virtual]

Starts the Consumer if not already started and not closed. A consumer will no deliver messages until started.

6.22.2.26 `virtual void activemq::core::ActiveMQConsumer::stop ()` [virtual]

Stops a Consumer, the Consumer will not deliver any messages that are dispatched to it until it is started again. A Closed Consumer is also a stopped consumer.

The documentation for this class was generated from the following file:

- `src/main/activemq/core/ActiveMQConsumer.h`

6.23 activemq:library::ActiveMQCPP Class Reference

```
#include <src/main/activemq/library/ActiveMQCPP.h>
```

Public Member Functions

- virtual `~ActiveMQCPP ()`

Static Public Member Functions

- static void `initializeLibrary ()`
*Initialize the ActiveMQ-CPP Library constructs, this method will init all the internal Registry objects and initialize the Decaf **library** (p. 64).*
- static void `initializeLibrary (int argc, char **argv)`
*Initialize the ActiveMQ-CPP Library constructs, this method will initialize all the internal Registry objects and initialize the Decaf **library** (p. 64).*
- static void `shutdownLibrary ()`
Shutdown the ActiveMQ-CPP Library, freeing any resources that could not be freed up to this point.

Protected Member Functions

- `ActiveMQCPP ()`
- `ActiveMQCPP (const ActiveMQCPP &)`
- `ActiveMQCPP & operator= (const ActiveMQCPP &)`

6.23.1 Constructor & Destructor Documentation

6.23.1.1 `activemq:library::ActiveMQCPP::ActiveMQCPP () [inline, protected]`

6.23.1.2 `activemq:library::ActiveMQCPP::ActiveMQCPP (const ActiveMQCPP &) [protected]`

6.23.1.3 `virtual activemq:library::ActiveMQCPP::~~ActiveMQCPP () [inline, virtual]`

6.23.2 Member Function Documentation

6.23.2.1 `static void activemq:library::ActiveMQCPP::initializeLibrary (int argc, char ** argv) [static]`

Initialize the ActiveMQ-CPP Library constructs, this method will initialize all the internal Registry objects and initialize the Decaf **library** (p.64). This method takes the args passed to the main method of process for use is setting system properties and configuring the ActiveMQ-CPP Library.

Parameters:

argc - the count of arguments passed to this Process.

argv - the array of string arguments passed to this process.

Exceptions:

runtime_error if an error occurs while initializing this **library** (p. 64).

6.23.2.2 static void activemq::library::ActiveMQCPP::initializeLibrary () [static]

Initialize the ActiveMQ-CPP Library constructs, this method will init all the internal Registry objects and initialize the Decaf **library** (p. 64).

Exceptions:

runtime_error if an error occurs while initializing this **library** (p. 64).

6.23.2.3 ActiveMQCPP& activemq::library::ActiveMQCPP::operator= (const ActiveMQCPP &) [protected]

6.23.2.4 static void activemq::library::ActiveMQCPP::shutdownLibrary () [static]

Shutdown the ActiveMQ-CPP Library, freeing any resources that could not be freed up to this point. All the user created ActiveMQ-CPP objects and Decaf Library objects should have been destroyed by the time this method is called.

The documentation for this class was generated from the following file:

- src/main/activemq/library/**ActiveMQCPP.h**

6.24 activemq::commands::ActiveMQDestination Class Reference

#include <src/main/activemq/commands/ActiveMQDestination.h> Inheritance diagram for activemq::commands::ActiveMQDestination:

Data Structures

- struct **DestinationFilter**

Public Member Functions

- **ActiveMQDestination** ()
- **ActiveMQDestination** (const std::string &**physicalName**)
- virtual ~**ActiveMQDestination** ()
- virtual **ActiveMQDestination** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual unsigned char **getDataStructureType** () const
*Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.*
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual const std::string & **getPhysicalName** () const
Fetch this destination's physical name.
- virtual std::string & **getPhysicalName** ()
- virtual void **setPhysicalName** (const std::string &**physicalName**)
Set this destination's physical name.
- virtual bool **isAdvisory** () const
- virtual void **setAdvisory** (bool **advisory**)
- virtual bool **isConsumerAdvisory** () const
- virtual bool **isProducerAdvisory** () const
- virtual bool **isConnectionAdvisory** () const
- virtual bool **isExclusive** () const
- virtual void **setExclusive** (bool **exclusive**)
- virtual bool **isOrdered** () const

- virtual void **setOrdered** (bool **ordered**)
- virtual std::string **getOrderedTarget** () const
- virtual void **setOrderedTarget** (const std::string &**orderedTarget**)
- virtual **cms::Destination::DestinationType** **getDestinationType** () const =0
Returns the Type of Destination that this object represents.
- virtual bool **isTemporary** () const
Returns true if a temporary Destination.
- virtual bool **isTopic** () const
Returns true if a Topic Destination.
- virtual bool **isQueue** () const
Returns true if a Queue Destination.
- virtual bool **isComposite** () const
Returns true if this destination represents a collection of destinations; allowing a set of destinations to be published to or subscribed from in one CMS operation.
- virtual bool **isWildcard** () const
- const **activemq::util::ActiveMQProperties** & **getOptions** () const
- virtual const **cms::Destination** * **getCMSDestination** () const

Static Public Member Functions

- static std::string **createTemporaryName** (const std::string &clientId)
Create a temporary name from the clientId.
- static std::string **getClientId** (const **ActiveMQDestination** *destination)
From a temporary destination find the clientId of the Connection that created it.
- static **Pointer< ActiveMQDestination >** **createDestination** (int type, const std::string &name)
Creates a Destination given the String Name to use and a Type.

Static Public Attributes

- static const unsigned char **ID _ACTIVEMQDESTINATION** = 0

Protected Attributes

- bool **exclusive**
- bool **ordered**
- bool **advisory**
- std::string **orderedTarget**
- std::string **physicalName**
- **util::ActiveMQProperties** **options**

Static Protected Attributes

- static const std::string **ADVISORY_PREFIX**
prefix for Advisory message destinations
- static const std::string **CONSUMER_ADVISORY_PREFIX**
prefix for consumer advisory destinations
- static const std::string **PRODUCER_ADVISORY_PREFIX**
prefix for producer advisory destinations
- static const std::string **CONNECTION_ADVISORY_PREFIX**
prefix for connection advisory destinations
- static const std::string **DEFAULT_ORDERED_TARGET**
The default target for ordered destinations.
- static const std::string **TEMP_PREFIX**
- static const std::string **TEMP_POSTFIX**
- static const std::string **COMPOSITE_SEPARATOR**
- static const std::string **QUEUE_QUALIFIED_PREFIX**
- static const std::string **TOPIC_QUALIFIED_PREFIX**
- static const std::string **TEMP_QUEUE_QUALIFIED_PREFIX**
- static const std::string **TEMP_TOPIC_QUALIFIED_PREFIX**

6.24.1 Constructor & Destructor Documentation

6.24.1.1 `activemq::commands::ActiveMQDestination::ActiveMQDestination ()`

6.24.1.2 `activemq::commands::ActiveMQDestination::ActiveMQDestination (const std::string & physicalName)`

6.24.1.3 `virtual
activemq::commands::ActiveMQDestination::~~ActiveMQDestination ()
[inline, virtual]`

6.24.2 Member Function Documentation

6.24.2.1 `virtual ActiveMQDestination* ac-
tivemq::commands::ActiveMQDestination::cloneDataStructure () const
[inline, virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

Reimplemented in `activemq::commands::ActiveMQQueue` (p. 338),
`activemq::commands::ActiveMQTempDestination` (p. 400), **ac-**
`tivemq::commands::ActiveMQTempQueue` (p. 416), **ac-**
`tivemq::commands::ActiveMQTempTopic` (p. 433), and **ac-**
`tivemq::commands::ActiveMQTopic` (p. 466).

6.24.2.2 `virtual void ac-`
`tivemq::commands::ActiveMQDestination::copyDataStructure (const`
`DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

`src` - Source Object

Reimplemented in `activemq::commands::ActiveMQQueue` (p. 338),
`activemq::commands::ActiveMQTempDestination` (p. 400), **ac-**
`tivemq::commands::ActiveMQTempQueue` (p. 417), **ac-**
`tivemq::commands::ActiveMQTempTopic` (p. 434), and **ac-**
`tivemq::commands::ActiveMQTopic` (p. 466).

Referenced by `activemq::commands::ActiveMQTempDestination::copyDataStructure()`.

6.24.2.3 `static Pointer<ActiveMQDestination> ac-`
`tivemq::commands::ActiveMQDestination::createDestination (int type,`
`const std::string & name) [static]`

Creates a Destination given the String Name to use and a Type.

Parameters:

type - The Type of Destination to Create

name - The Name to use in the creation of the Destination

Returns:

Pointer to a new `ActiveMQDestination` (p. 229) instance.

6.24.2.4 `static std::string ac-`
`tivemq::commands::ActiveMQDestination::createTemporaryName (const`
`std::string & clientId) [inline, static]`

Create a temporary name from the clientId.

Parameters:

clientId

Returns:

6.24.2.5 virtual bool activemq::commands::ActiveMQDestination::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented in **activemq::commands::ActiveMQQueue** (p. 339),
activemq::commands::ActiveMQTempDestination (p. 401), **ac-**
tivemq::commands::ActiveMQTempQueue (p. 417), **ac-**
tivemq::commands::ActiveMQTempTopic (p. 434), and **ac-**
tivemq::commands::ActiveMQTopic (p. 467).

Referenced by **activemq::commands::ActiveMQTopic::equals()**, and **ac-**
tivemq::commands::ActiveMQTempDestination::equals().

6.24.2.6 static std::string activemq::commands::ActiveMQDestination::getClientId (const ActiveMQDestination * *destination*) [static]

From a temporary destination find the clientId of the Connection that created it.

Parameters:

destination

Returns:

the clientId or null if not a temporary destination

6.24.2.7 virtual const cms::Destination* activemq::commands::ActiveMQDestination::getCMSDestination () const [inline, virtual]

Returns:

the **cms::Destination** (p. 1190) interface pointer that the objects that derive from this class implement.

Reimplemented in **activemq::commands::ActiveMQQueue** (p. 339),
activemq::commands::ActiveMQTempQueue (p. 417), **ac-**
tivemq::commands::ActiveMQTempTopic (p. 434), and **ac-**
tivemq::commands::ActiveMQTopic (p. 467).

6.24.2.8 virtual unsigned char activemq::commands::ActiveMQDestination::getDataStructureType () const [virtual]

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Implements **activemq::commands::DataStructure** (p. 1176).

Reimplemented in **activemq::commands::ActiveMQQueue** (p. 339),
activemq::commands::ActiveMQTempDestination (p. 401), **ac-**
tivemq::commands::ActiveMQTempQueue (p. 418), **ac-**
tivemq::commands::ActiveMQTempTopic (p. 435), and **ac-**
tivemq::commands::ActiveMQTopic (p. 467).

6.24.2.9 virtual cms::Destination::DestinationType ac-
tivemq::commands::ActiveMQDestination::getDestinationType () const
[pure virtual]

Returns the Type of Destination that this object represents.

Returns:

int type qualifier.

Implemented in **activemq::commands::ActiveMQQueue** (p. 339),
activemq::commands::ActiveMQTempQueue (p. 418), **ac-**
tivemq::commands::ActiveMQTempTopic (p. 435), and **ac-**
tivemq::commands::ActiveMQTopic (p. 467).

6.24.2.10 const activemq::util::ActiveMQProperties& ac-
tivemq::commands::ActiveMQDestination::getOptions () const
[inline]

Returns:

a reference (const) to the options properties for this Destination.

6.24.2.11 virtual std::string ac-
tivemq::commands::ActiveMQDestination::getOrderedTarget () const
[inline, virtual]

Returns:

Returns the orderedTarget.

6.24.2.12 virtual std::string& ac-
tivemq::commands::ActiveMQDestination::getPhysicalName () [inline,
virtual]

6.24.2.13 virtual const std::string& ac-
tivemq::commands::ActiveMQDestination::getPhysicalName () const
[inline, virtual]

Fetch this destination's physical name.

Returns:

const string containing the name

6.24.2.14 `virtual bool activemq::commands::ActiveMQDestination::isAdvisory () const [inline, virtual]`

Returns:

Returns the advisory.

6.24.2.15 `virtual bool activemq::commands::ActiveMQDestination::isComposite () const [inline, virtual]`

Returns true if this destination represents a collection of destinations; allowing a set of destinations to be published to or subscribed from in one CMS operation.

Returns:

true if this destination represents a collection of child destinations.

6.24.2.16 `virtual bool activemq::commands::ActiveMQDestination::isConnectionAdvisory () const [inline, virtual]`

Returns:

true if this is a destination for Connection advisories

6.24.2.17 `virtual bool activemq::commands::ActiveMQDestination::isConsumerAdvisory () const [inline, virtual]`

Returns:

true if this is a destination for Consumer advisories

6.24.2.18 `virtual bool activemq::commands::ActiveMQDestination::isExclusive () const [inline, virtual]`

Returns:

Returns the exclusive.

6.24.2.19 `virtual bool activemq::commands::ActiveMQDestination::isOrdered () const [inline, virtual]`

Returns:

Returns the ordered.

6.24.2.20 `virtual bool activemq::commands::ActiveMQDestination::isProducerAdvisory () const`
[inline, virtual]

Returns:

true if this is a destination for Producer advisories

6.24.2.21 `virtual bool activemq::commands::ActiveMQDestination::isQueue ()`
`const` [inline, virtual]

Returns true if a Queue Destination.

Returns:

true/false

6.24.2.22 `virtual bool activemq::commands::ActiveMQDestination::isTemporary ()`
`const` [inline, virtual]

Returns true if a temporary Destination.

Returns:

true/false

References `cms::Destination::TEMPORARY_QUEUE`, and `cms::Destination::TEMPORARY_TOPIC`.

6.24.2.23 `virtual bool activemq::commands::ActiveMQDestination::isTopic () const`
[inline, virtual]

Returns true if a Topic Destination.

Returns:

true/false

References `cms::Destination::TEMPORARY_TOPIC`, and `cms::Destination::TOPIC`.

6.24.2.24 `virtual bool activemq::commands::ActiveMQDestination::isWildcard ()`
`const` [inline, virtual]

Returns:

true if the destination matches multiple possible destinations

6.24.2.25 `virtual void activemq::commands::ActiveMQDestination::setAdvisory`
`(bool advisory)` [inline, virtual]

Parameters:

advisory The advisory to set.

6.24.2.26 virtual void activemq::commands::ActiveMQDestination::setExclusive (bool *exclusive*) [inline, virtual]

Parameters:

exclusive The exclusive to set.

6.24.2.27 virtual void activemq::commands::ActiveMQDestination::setOrdered (bool *ordered*) [inline, virtual]

Parameters:

ordered The ordered to set.

6.24.2.28 virtual void activemq::commands::ActiveMQDestination::setOrderedTarget (const std::string & *orderedTarget*) [inline, virtual]

Parameters:

orderedTarget The orderedTarget to set.

6.24.2.29 virtual void activemq::commands::ActiveMQDestination::setPhysicalName (const std::string & *physicalName*) [virtual]

Set this destination's physical name.

Returns:

const string containing the name

6.24.2.30 virtual std::string activemq::commands::ActiveMQDestination::toString () const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataStructure** (p. 560).

Reimplemented in **activemq::commands::ActiveMQQueue** (p. 340), **activemq::commands::ActiveMQTempDestination** (p. 401), **activemq::commands::ActiveMQTempQueue** (p. 418), **activemq::commands::ActiveMQTempTopic** (p. 435), and **activemq::commands::ActiveMQTopic** (p. 468).

6.24.3 Field Documentation

6.24.3.1 `bool activemq::commands::ActiveMQDestination::advisory` [protected]

6.24.3.2 `const std::string
activemq::commands::ActiveMQDestination::ADVISORY_
PREFIX` [static, protected]

prefix for Advisory message destinations

6.24.3.3 `const std::string
activemq::commands::ActiveMQDestination::COMPOSITE_
SEPARATOR` [static, protected]

6.24.3.4 `const std::string
activemq::commands::ActiveMQDestination::CONNECTION_
ADVISORY_PREFIX` [static, protected]

prefix for connection advisory destinations

6.24.3.5 `const std::string
activemq::commands::ActiveMQDestination::CONSUMER_
ADVISORY_PREFIX` [static, protected]

prefix for consumer advisory destinations

6.24.3.6 `const std::string
activemq::commands::ActiveMQDestination::DEFAULT_
ORDERED_TARGET` [static, protected]

The default target for ordered destinations.

6.24.3.7 `bool activemq::commands::ActiveMQDestination::exclusive` [protected]

6.24.3.8 `const unsigned char activemq::commands::ActiveMQDestination::ID _ - ACTIVEMQDESTINATION = 0` [static]

6.24.3.9 `util::ActiveMQProperties activemq::commands::ActiveMQDestination::options` [protected]

6.24.3.10 `bool activemq::commands::ActiveMQDestination::ordered` [protected]

6.24.3.11 `std::string activemq::commands::ActiveMQDestination::orderedTarget` [protected]

6.24.3.12 `std::string activemq::commands::ActiveMQDestination::physicalName` [protected]

6.24.3.13 `const std::string activemq::commands::ActiveMQDestination::PRODUCER _ - ADVISORY _ PREFIX` [static, protected]

prefix for producer advisory destinations

6.24.3.14 `const std::string activemq::commands::ActiveMQDestination::QUEUE _ - QUALIFIED _ PREFIX` [static, protected]

6.24.3.15 `const std::string activemq::commands::ActiveMQDestination::TEMP _ - POSTFIX` [static, protected]

6.24.3.16 `const std::string activemq::commands::ActiveMQDestination::TEMP _ - PREFIX` [static, protected]

6.24.3.17 `const std::string activemq::commands::ActiveMQDestination::TEMP _ - QUEUE _ QUALIFIED _ PREFIX` [static, protected]

6.24.3.18 `const std::string activemq::commands::ActiveMQDestination::TEMP _ - TOPIC _ QUALIFIED _ PREFIX` [static, protected]

6.24.3.19 `const std::string activemq::commands::ActiveMQDestination::TOPIC _ - QUALIFIED _ PREFIX` [static, protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQDestination.h`

6.25 activemq::wireformat::openwire::marshal::v3::ActiveMQDestination Class Reference

Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 240).

```
#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQDestinationMarshaller.h>
Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller:
```

Public Member Functions

- **ActiveMQDestinationMarshaller** ()
- virtual **~ActiveMQDestinationMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

6.25.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 240).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.25.2 Constructor & Destructor Documentation

6.25.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller::ActiveMQDestinationMarshaller()` `[inline]`

6.25.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller::~~ActiveMQDestinationMarshaller()` `[inline, virtual]`

6.25.3 Member Function Documentation

6.25.3.1 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller` (p. 342), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller` (p. 404), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller` (p. 421), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller` (p. 438), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller` (p. 470).

6.25.3.2 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` `[virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataIn* - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller` (p. 343), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller` (p. 404), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller` (p. 422), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller` (p. 439), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller` (p. 471).

6.25.3.3 `virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller` (p. 343), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller` (p. 405), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller` (p. 422), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller` (p. 439), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller` (p. 471).

6.25.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller** (p. 344), **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 405), **activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller** (p. 423), **activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller** (p. 440), and **activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller** (p. 472).

6.25.3.5 virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller** (p. 344), **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 406), **activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller** (p. 423), **activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller** (p. 440), and **activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller** (p. 472).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQDestinationMarshaller.h

6.26 activemq::wireformat::openwire::marshal::v1::ActiveMQDestination Class Reference

Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 244).

```
#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQDestinationMarshaller.h>
Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller:
```

Public Member Functions

- **ActiveMQDestinationMarshaller** ()
- virtual **~ActiveMQDestinationMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.26.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 244).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.26.2 Constructor & Destructor Documentation

6.26.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller::ActiveMQDestinationMarshaller()` [inline]

6.26.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller::~~ActiveMQDestinationMarshaller()` [inline, virtual]

6.26.3 Member Function Documentation

6.26.3.1 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller` (p. 346), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 408), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 425), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 442), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller` (p. 474).

6.26.3.2 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller` (p. 347), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 408), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 426), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 443), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller` (p. 475).

6.26.3.3 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller` (p. 347), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 409), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 426), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 443), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller` (p. 475).

6.26.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller** (p. 348), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller** (p. 409), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller** (p. 427), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller** (p. 444), and **activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller** (p. 476).

6.26.3.5 virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller** (p. 348), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller** (p. 410), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller** (p. 427), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller** (p. 444), and **activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller** (p. 476).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQDestinationMarshaller.h

6.27 activemq::wireformat::openwire::marshal::v2::ActiveMQDestination Class Reference

Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 248).

```
#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQDestinationMarshaller.h>
Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller:
```

Public Member Functions

- **ActiveMQDestinationMarshaller** ()
- virtual **~ActiveMQDestinationMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

6.27.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 248).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.27.2 Constructor & Destructor Documentation

6.27.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller::ActiveMQDestinationMarshaller()` `[inline]`

6.27.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller::~~ActiveMQDestinationMarshaller()` `[inline, virtual]`

6.27.3 Member Function Documentation

6.27.3.1 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller::marshal(const OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller` (p. 350), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller` (p. 412), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller` (p. 429), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller` (p. 446), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller` (p. 478).

6.27.3.2 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller::unmarshal(const OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` `[virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataIn* - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller` (p. 351), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller` (p. 412), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller` (p. 430), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller` (p. 447), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller` (p. 479).

6.27.3.3 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller` (p. 351), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller` (p. 413), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller` (p. 430), `activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller` (p. 447), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller` (p. 479).

6.27.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller** (p. 352), **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 413), **activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller** (p. 431), **activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller** (p. 448), and **activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller** (p. 480).

6.27.3.5 virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller** (p. 352), **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 414), **activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller** (p. 431), **activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller** (p. 448), and **activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller** (p. 480).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQDestinationMarshaller.h`

6.28 activemq::exceptions::ActiveMQException Class Reference

#include <src/main/activemq/exceptions/ActiveMQException.h> Inheritance diagram for activemq::exceptions::ActiveMQException:

Public Member Functions

- **ActiveMQException** () throw ()
Default Constructor.
- **ActiveMQException** (const **ActiveMQException** &ex) throw ()
Copy Constructor.
- **ActiveMQException** (const **decaf::lang::Exception** &ex) throw ()
Copy Constructor.
- **ActiveMQException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual ~**ActiveMQException** () throw ()
- virtual **ActiveMQException** * **clone** () const
Clones this exception.
- virtual **cms::CMSException** **convertToCMSException** () const
Converts this exception to a new CMSException.

6.28.1 Constructor & Destructor Documentation

6.28.1.1 activemq::exceptions::ActiveMQException::ActiveMQException () throw ()

Default Constructor.

6.28.1.2 activemq::exceptions::ActiveMQException::ActiveMQException (const ActiveMQException & ex) throw ()

Copy Constructor.

Parameters:

ex The Exception whose internal data is copied into this instance.

6.28.1.3 `activemq::exceptions::ActiveMQException::ActiveMQException (const decaf::lang::Exception & ex) throw ()`

Copy Constructor.

Parameters:

ex The Exception whose internal data is copied into this instance.

6.28.1.4 `activemq::exceptions::ActiveMQException::ActiveMQException (const char * file, const int lineNumber, const char * msg, ...) throw ()`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message.

Parameters:

file The file name where exception occurs.

lineNumber The line number where the exception occurred.

msg The message to report.

... The list of primitives that are formatted into the message.

6.28.1.5 `virtual activemq::exceptions::ActiveMQException::~~ActiveMQException () throw () [virtual]`

6.28.2 Member Function Documentation

6.28.2.1 `virtual ActiveMQException* activemq::exceptions::ActiveMQException::clone () const [virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

Copy of this Exception object

Reimplemented from `decaf::lang::Exception` (p. 1271).

Reimplemented in `activemq::exceptions::BrokerException` (p. 590).

6.28.2.2 `virtual cms::CMSEException activemq::exceptions::ActiveMQException::convertToCMSEException () const [virtual]`

Converts this exception to a new CMSEException.

Returns:

a CMSEException with the data from this exception

The documentation for this class was generated from the following file:

- `src/main/activemq/exceptions/ActiveMQException.h`

6.29 activemq::commands::ActiveMQMapMessage Class Reference

#include <src/main/activemq/commands/ActiveMQMapMessage.h> Inheritance diagram for activemq::commands::ActiveMQMapMessage:

Public Member Functions

- **ActiveMQMapMessage** ()
- virtual **~ActiveMQMapMessage** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual bool **isMarshalAware** () const
Determine if this object is aware of marshaling and should have its before and after marshaling methods called.
- virtual **ActiveMQMapMessage** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual void **beforeMarshal** (**wireformat::WireFormat** *wireFormat) throw (decaf::io::IOException)
Perform any processing needed before an marshal.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual **cms::MapMessage** * **clone** () const
Clone this message exactly, returns a new instance that the caller is required to delete.
- virtual std::vector< std::string > **getMapNames** () const throw (cms::CMSException)
Returns an Enumeration of all the names in the MapMessage object.
- virtual bool **itemExists** (const std::string &name) const throw (cms::CMSException)
Indicates whether an item exists in this MapMessage object.
- virtual bool **getBoolean** (const std::string &name) const throw (cms::CMSException)
Returns the Boolean value of the Specified name.

- virtual void **setBoolean** (const std::string &name, bool value) throw (cms::CMSEException)
Sets a boolean value with the specified name into the Map.
- virtual unsigned char **getByte** (const std::string &name) const throw (cms::CMSEException)
Returns the Byte value of the Specified name.
- virtual void **setByte** (const std::string &name, unsigned char value) throw (cms::CMSEException)
Sets a Byte value with the specified name into the Map.
- virtual std::vector< unsigned char > **getBytes** (const std::string &name) const throw (cms::CMSEException)
Returns the Bytes value of the Specified name.
- virtual void **setBytes** (const std::string &name, const std::vector< unsigned char > &value) throw (cms::CMSEException)
Sets a Bytes value with the specified name into the Map.
- virtual char **getChar** (const std::string &name) const throw (cms::CMSEException)
Returns the Char value of the Specified name.
- virtual void **setChar** (const std::string &name, char value) throw (cms::CMSEException)
Sets a Char value with the specified name into the Map.
- virtual double **getDouble** (const std::string &name) const throw (cms::CMSEException)
Returns the Double value of the Specified name.
- virtual void **setDouble** (const std::string &name, double value) throw (cms::CMSEException)
Sets a Double value with the specified name into the Map.
- virtual float **getFloat** (const std::string &name) const throw (cms::CMSEException)
Returns the Float value of the Specified name.
- virtual void **setFloat** (const std::string &name, float value) throw (cms::CMSEException)
Sets a Float value with the specified name into the Map.
- virtual int **getInt** (const std::string &name) const throw (cms::CMSEException)
Returns the Int value of the Specified name.
- virtual void **setInt** (const std::string &name, int value) throw (cms::CMSEException)
Sets a Int value with the specified name into the Map.
- virtual long long **getLong** (const std::string &name) const throw (cms::CMSEException)
Returns the Long value of the Specified name.
- virtual void **setLong** (const std::string &name, long long value) throw (cms::CMSEException)

Sets a Long value with the specified name into the Map.

- virtual short **getShort** (const std::string &name) const throw (cms::CMSEException)
Returns the Short value of the Specified name.
- virtual void **setShort** (const std::string &name, short value) throw (cms::CMSEException)
Sets a Short value with the specified name into the Map.
- virtual std::string **getString** (const std::string &name) const throw (cms::CMSEException)
Returns the String value of the Specified name.
- virtual void **setString** (const std::string &name, const std::string &value) throw (cms::CMSEException)
Sets a String value with the specified name into the Map.

Static Public Attributes

- static const unsigned char **ID_ACTIVEMQMAPMESSAGE** = 25

Protected Member Functions

- util::PrimitiveMap & **getMap** () throw (decaf::lang::exceptions::NullPointerException)
Fetches a reference to this objects PrimitiveMap, if one needs to be created or unmarshaled, this will perform the correct steps.
- const util::PrimitiveMap & **getMap** () const throw (decaf::lang::exceptions::NullPointerException)
- virtual void **checkMapIsUnmarshalled** () const throw (decaf::lang::exceptions::NullPointerException)
Performs the unmarshal on the Map if needed, otherwise just returns.

6.29.1 Constructor & Destructor Documentation

6.29.1.1 **activemq::commands::ActiveMQMapMessage::ActiveMQMapMessage ()**

6.29.1.2 **virtual activemq::commands::ActiveMQMapMessage::~~ActiveMQMapMessage ()**
[virtual]

6.29.2 Member Function Documentation

6.29.2.1 **virtual void activemq::commands::ActiveMQMapMessage::beforeMarshal (wireformat::WireFormat * wireFormat) throw (decaf::io::IOException)**
[virtual]

Perform any processing needed before an marshal.

Parameters:

wireFormat - the OpenWireFormat object in use.

Implements **activemq::wireformat::MarshalAware** (p. 1713).

6.29.2.2 `virtual void activemq::commands::ActiveMQMapMessage::checkMapIsUnmarshalled () const throw (decaf::lang::exceptions::NullPointerException) [protected, virtual]`

Performs the unmarshal on the Map if needed, otherwise just returns.

6.29.2.3 `virtual cms::MapMessage* activemq::commands::ActiveMQMapMessage::clone () const [inline, virtual]`

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implements **cms::Message** (p. 1758).

6.29.2.4 `virtual ActiveMQMapMessage* activemq::commands::ActiveMQMapMessage::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::Message** (p. 1741).

6.29.2.5 `virtual void activemq::commands::ActiveMQMapMessage::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from **activemq::commands::Message** (p. 1742).

6.29.2.6 virtual bool activemq::commands::ActiveMQMapMessage::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::Message** (p. 1742).

6.29.2.7 virtual bool activemq::commands::ActiveMQMapMessage::getBoolean (const std::string & *name*) const throw (cms::CMSEException) [virtual]

Returns the Boolean value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1703).

6.29.2.8 virtual unsigned char activemq::commands::ActiveMQMapMessage::getBytes (const std::string & *name*) const throw (cms::CMSEException) [virtual]

Returns the Byte value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1703).

6.29.2.9 virtual std::vector<unsigned char> activemq::commands::ActiveMQMapMessage::getBytes (const std::string & *name*) const throw (cms::CMSEException) [virtual]

Returns the Bytes value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1704).

6.29.2.10 `virtual char activemq::commands::ActiveMQMapMessage::getChar
(const std::string & name) const throw (cms::CMSEException)
[virtual]`

Returns the Char value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1704).

6.29.2.11 `virtual unsigned char ac-
tivismq::commands::ActiveMQMapMessage::getDataStructureType ()
const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from **activemq::commands::Message** (p. 1743).

6.29.2.12 `virtual double activemq::commands::ActiveMQMapMessage::getDouble
(const std::string & name) const throw (cms::CMSEException)
[virtual]`

Returns the Double value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1704).

6.29.2.13 `virtual float activemq::commands::ActiveMQMapMessage::getFloat
(const std::string & name) const throw (cms::CMSEException)
[virtual]`

Returns the Float value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1705).

6.29.2.14 `virtual int activemq::commands::ActiveMQMapMessage::getInt (const std::string & name) const throw (cms::CMSEException)` [virtual]

Returns the Int value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1705).

6.29.2.15 `virtual long long activemq::commands::ActiveMQMapMessage::getLong (const std::string & name) const throw (cms::CMSEException)` [virtual]

Returns the Long value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1705).

6.29.2.16 `const util::PrimitiveMap& activemq::commands::ActiveMQMapMessage::getMap () const throw (decaf::lang::exceptions::NullPointerException)` [protected]

6.29.2.17 `util::PrimitiveMap& activemq::commands::ActiveMQMapMessage::getMap () throw (decaf::lang::exceptions::NullPointerException)` [protected]

Fetches a reference to this objects PrimitiveMap, if one needs to be created or unmarshaled, this will perform the correct steps.

Returns:

reference to a PrimitiveMap.

6.29.2.18 `virtual std::vector<std::string> activemq::commands::ActiveMQMapMessage::getMapNames
() const throw (cms::CMSException) [virtual]`

Returns an Enumeration of all the names in the MapMessage object.

Returns:

STL Vector of String values, each of which is the name of an item in the MapMessage

Exceptions:

CMSException

Implements **cms::MapMessage** (p.1705).

6.29.2.19 `virtual short activemq::commands::ActiveMQMapMessage::getShort
(const std::string & name) const throw (cms::CMSException)
[virtual]`

Returns the Short value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSException

Implements **cms::MapMessage** (p.1706).

6.29.2.20 `virtual std::string ac-
tivemq::commands::ActiveMQMapMessage::getString
(const std::string & name) const throw (cms::CMSException)
[virtual]`

Returns the String value of the Specified name.

Parameters:

name of the value to fetch from the map

Exceptions:

CMSException

Implements **cms::MapMessage** (p.1706).

6.29.2.21 `virtual bool ac-
tivemq::commands::ActiveMQMapMessage::isMarshalAware () const
[inline, virtual]`

Determine if this object is aware of marshaling and should have its before and after marshaling methods called. Defaults to false.

Returns:

true if aware of marshaling

Reimplemented from **activemq::commands::Message** (p. 1746).

6.29.2.22 **virtual bool activemq::commands::ActiveMQMapMessage::itemExists**
(const std::string & *name*) const throw (cms::CMSEException)
[virtual]

Indicates whether an item exists in this MapMessage object.

Parameters:

name - String name of the Object in question

Returns:

boolean value indicating if the name is in the map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1706).

6.29.2.23 **virtual void activemq::commands::ActiveMQMapMessage::setBoolean**
(const std::string & *name*, bool *value*) throw (cms::CMSEException)
[virtual]

Sets a boolean value with the specified name into the Map.

Parameters:

name - the name of the boolean

value - the boolean value to set in the Map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1707).

6.29.2.24 **virtual void activemq::commands::ActiveMQMapMessage::setByte** (const
std::string & *name*, unsigned char *value*) throw (cms::CMSEException)
[virtual]

Sets a Byte value with the specified name into the Map.

Parameters:

name - the name of the Byte

value - the Byte value to set in the Map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1707).

6.29.2.25 `virtual void activemq::commands::ActiveMQMapMessage::setBytes
(const std::string & name, const std::vector< unsigned char > & value)
throw (cms::CMSEException) [virtual]`

Sets a Bytes value with the specified name into the Map.

Parameters:

name - the name of the Bytes

value - the Bytes value to set in the Map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1707).

6.29.2.26 `virtual void activemq::commands::ActiveMQMapMessage::setChar (const
std::string & name, char value) throw (cms::CMSEException) [virtual]`

Sets a Char value with the specified name into the Map.

Parameters:

name - the name of the Char

value - the Char value to set in the Map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1708).

6.29.2.27 `virtual void activemq::commands::ActiveMQMapMessage::setDouble
(const std::string & name, double value) throw (cms::CMSEException)
[virtual]`

Sets a Double value with the specified name into the Map.

Parameters:

name - the name of the Double

value - the Double value to set in the Map

Exceptions:

CMSEException

Implements **cms::MapMessage** (p. 1708).

6.29.2.28 `virtual void activemq::commands::ActiveMQMapMessage::setFloat (const std::string & name, float value) throw (cms::CMSException)` [virtual]

Sets a Float value with the specified name into the Map.

Parameters:

name - the name of the Float

value - the Float value to set in the Map

Exceptions:

CMSException

Implements `cms::MapMessage` (p.1708).

6.29.2.29 `virtual void activemq::commands::ActiveMQMapMessage::setInt (const std::string & name, int value) throw (cms::CMSException)` [virtual]

Sets a Int value with the specified name into the Map.

Parameters:

name - the name of the Int

value - the Int value to set in the Map

Exceptions:

CMSException

Implements `cms::MapMessage` (p.1709).

6.29.2.30 `virtual void activemq::commands::ActiveMQMapMessage::setLong (const std::string & name, long long value) throw (cms::CMSException)` [virtual]

Sets a Long value with the specified name into the Map.

Parameters:

name - the name of the Long

value - the Long value to set in the Map

Exceptions:

CMSException

Implements `cms::MapMessage` (p.1709).

6.29.2.31 `virtual void activemq::commands::ActiveMQMapMessage::setShort (const std::string & name, short value) throw (cms::CMSException)` [virtual]

Sets a Short value with the specified name into the Map.

Parameters:

name - the name of the Short
value - the Short value to set in the Map

Exceptions:

CMSException

Implements `cms::MapMessage` (p.1709).

6.29.2.32 `virtual void activemq::commands::ActiveMQMapMessage::setString (const std::string & name, const std::string & value) throw (cms::CMSException)` [virtual]

Sets a String value with the specified name into the Map.

Parameters:

name - the name of the String
value - the String value to set in the Map

Exceptions:

CMSException

Implements `cms::MapMessage` (p.1710).

6.29.2.33 `virtual std::string activemq::commands::ActiveMQMapMessage::toString () const` [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::Message` (p.1749).

6.29.3 Field Documentation

6.29.3.1 `const unsigned char activemq::commands::ActiveMQMapMessage::ID_ - ACTIVEMQMAPMESSAGE = 25` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQMapMessage.h`

6.30 activemq:wireformat::openwire::marshal:v3::ActiveMQMapMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 267).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMapMessageMarshaller.h> Inheritance diagram for activemq:wireformat::openwire::marshal:v3::ActiveMQMapMessageMarshaller:

Public Member Functions

- **ActiveMQMapMessageMarshaller** ()
- virtual **~ActiveMQMapMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.30.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 267).
 NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.30.2 Constructor & Destructor Documentation

6.30.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::ActiveMQMapMessageMarshaller()` [inline]

6.30.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::~~ActiveMQMapMessageMarshaller()` [inline, virtual]

6.30.3 Member Function Documentation

6.30.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::createObject(const commands::DataStructure& dataStructure) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.30.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.30.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::looseMarshal(const commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.30.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.30.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1868).

6.30.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

6.30.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMapMessageMarshaller.h`

6.31 activemq:wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 271).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQMapMessageMarshaller.h> Inheritance diagram for activemq:wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller:

Public Member Functions

- **ActiveMQMapMessageMarshaller** ()
- virtual **~ActiveMQMapMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.31.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 271).
 NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.31.2 Constructor & Destructor Documentation

6.31.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::ActiveMQMapMessageMarshaller()` [inline]

6.31.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::~~ActiveMQMapMessageMarshaller()` [inline, virtual]

6.31.3 Member Function Documentation

6.31.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::createObject(const commands::DataStructure& dataStructure) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.31.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.31.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::looseMarshal(const OpenWireFormat* wireFormat, commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.31.3.4 virtual void ac-
`tivemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.31.3.5 virtual int ac-
`tivemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1873).

6.31.3.6 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

6.31.3.7 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQMapMessageMarshaller.h`

6.32 activemq:wireformat::openwire::marshal:v2::ActiveMQMapMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 275).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQMapMessageMarshaller.h> Inheritance diagram for activemq:wireformat::openwire::marshal:v2::ActiveMQMapMessageMarshaller:

Public Member Functions

- **ActiveMQMapMessageMarshaller** ()
- virtual **~ActiveMQMapMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.32.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 275).
 NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.32.2 Constructor & Destructor Documentation

6.32.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::ActiveMQMapMessageMarshaller()` [inline]

6.32.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::~~ActiveMQMapMessageMarshaller()` [inline, virtual]

6.32.3 Member Function Documentation

6.32.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::createObject(const commands::DataStructure& dataStructure) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.32.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.32.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::looseMarshal(const commands::DataStructure& dataStructure, const OpenWireFormat* wireFormat, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.32.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.32.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1863).

6.32.3.6 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

6.32.3.7 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQMapMessageMarshaller.h`

6.33 activemq::commands::ActiveMQMessage Class Reference

#include <src/main/activemq/commands/ActiveMQMessage.h> Inheritance diagram for activemq::commands::ActiveMQMessage:

Public Member Functions

- **ActiveMQMessage** ()
- virtual **~ActiveMQMessage** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual **ActiveMQMessage** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual **cms::Message** * **clone** () const
Clone this message exactly, returns a new instance that the caller is required to delete.

Static Public Attributes

- static const unsigned char **ID_ACTIVEMQMESSAGE** = 23

6.33.1 Constructor & Destructor Documentation

6.33.1.1 **activemq::commands::ActiveMQMessage::ActiveMQMessage** ()

6.33.1.2 **virtual activemq::commands::ActiveMQMessage::~~ActiveMQMessage** ()
[inline, virtual]

6.33.2 Member Function Documentation

6.33.2.1 **virtual cms::Message* activemq::commands::ActiveMQMessage::clone** ()
const [inline, virtual]

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implements **cms::Message** (p.1758).

6.33.2.2 **virtual ActiveMQMessage* activemq::commands::ActiveMQMessage::cloneDataStructure () const** [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::Message** (p.1741).

6.33.2.3 **virtual void activemq::commands::ActiveMQMessage::copyDataStructure (const DataStructure * src)** [virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from **activemq::commands::Message** (p.1742).

6.33.2.4 **virtual bool activemq::commands::ActiveMQMessage::equals (const DataStructure * value) const** [virtual]

Compares the **DataStructure** (p.1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::Message** (p.1742).

6.33.2.5 **virtual unsigned char activemq::commands::ActiveMQMessage::getDataStructureType () const** [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p.1174) type copy.

Reimplemented from **activemq::commands::Message** (p.1743).

6.33.2.6 virtual std::string activemq::commands::ActiveMQMessage::toString () const [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::Message** (p.1749).

6.33.3 Field Documentation

6.33.3.1 const unsigned char activemq::commands::ActiveMQMessage::ID_- ACTIVEMQMESSAGE = 23 [static]

The documentation for this class was generated from the following file:

- src/main/activemq/commands/**ActiveMQMessage.h**

6.34 activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 282).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller:

Public Member Functions

- **ActiveMQMessageMarshaller** ()
- virtual **~ActiveMQMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.34.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 282). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.34.2 Constructor & Destructor Documentation

6.34.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::ActiveMQMessageMarshaller()` [inline]

6.34.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::~~ActiveMQMessageMarshaller()` [inline, virtual]

6.34.3 Member Function Documentation

6.34.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.34.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.34.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.34.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.34.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1868).

6.34.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

6.34.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMessageMarshaller.h`

6.35 activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 286).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQMessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller:

Public Member Functions

- **ActiveMQMessageMarshaller** ()
- virtual **~ActiveMQMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.35.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 286). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.35.2 Constructor & Destructor Documentation

6.35.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::ActiveMQMessageMarshaller()` [inline]

6.35.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::~~ActiveMQMessageMarshaller()` [inline, virtual]

6.35.3 Member Function Documentation

6.35.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.35.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.35.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.35.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.35.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1873).

6.35.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

6.35.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ActiveMQMessageMarshaller.h**

6.36 activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 290).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQMessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller:

Public Member Functions

- **ActiveMQMessageMarshaller** ()
- virtual **~ActiveMQMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.36.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 290). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.36.2 Constructor & Destructor Documentation

6.36.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::ActiveMQMessageMarshaller()` [inline]

6.36.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::~~ActiveMQMessageMarshaller()` [inline, virtual]

6.36.3 Member Function Documentation

6.36.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.36.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.36.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.36.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.36.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1863).

6.36.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

6.36.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQMessageMarshaller.h

6.37 activemq::commands::ActiveMQMessageTemplate< T > > Class Template Reference

#include <src/main/activemq/commands/ActiveMQMessageTemplate.h> Inheritance diagram for activemq::commands::ActiveMQMessageTemplate< T >:

Public Member Functions

- **ActiveMQMessageTemplate** ()
- virtual **~ActiveMQMessageTemplate** ()
- virtual void **acknowledge** () const throw (cms::CMSEException)
Acknowledges all consumed messages of the session of this consumed message.
- virtual void **clearBody** () throw (cms::CMSEException)
Clears out the body of the message.
- virtual void **clearProperties** () throw (cms::CMSEException)
Clears the message properties.
- virtual std::vector< std::string > **getPropertyNames** () const throw (cms::CMSEException)
Retrieves the property names.
- virtual bool **propertyExists** (const std::string &name) const throw (cms::CMSEException)
Indicates whether or not a given property exists.
- virtual bool **getBooleanProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a boolean property.
- virtual unsigned char **getByteProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a byte property.
- virtual double **getDoubleProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a double property.
- virtual float **getFloatProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a float property.
- virtual int **getIntProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a int property.

- virtual long long **getLongProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a long property.
- virtual short **getShortProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a short property.
- virtual std::string **getStringProperty** (const std::string &name) const throw (cms::CMSEException)
Gets a string property.
- virtual void **setBooleanProperty** (const std::string &name, bool value) throw (cms::CMSEException)
Sets a boolean property.
- virtual void **setByteProperty** (const std::string &name, unsigned char value) throw (cms::CMSEException)
Sets a byte property.
- virtual void **setDoubleProperty** (const std::string &name, double value) throw (cms::CMSEException)
Sets a double property.
- virtual void **setFloatProperty** (const std::string &name, float value) throw (cms::CMSEException)
Sets a float property.
- virtual void **setIntProperty** (const std::string &name, int value) throw (cms::CMSEException)
Sets a int property.
- virtual void **setLongProperty** (const std::string &name, long long value) throw (cms::CMSEException)
Sets a long property.
- virtual void **setShortProperty** (const std::string &name, short value) throw (cms::CMSEException)
Sets a short property.
- virtual void **setStringProperty** (const std::string &name, const std::string &value) throw (cms::CMSEException)
Sets a string property.
- virtual std::string **getCMSCorrelationID** () const throw (cms::CMSEException)
Get the Correlation Id for this message.
- virtual void **setCMSCorrelationID** (const std::string &correlationId) throw (cms::CMSEException)
Sets the Correlation Id used by this message.

- virtual int **getCMSDeliveryMode** () const throw (cms::CMSEException)
Gets the DeliveryMode for this message.
- virtual void **setCMSDeliveryMode** (int mode) throw (cms::CMSEException)
Sets the DeliveryMode for this message.
- virtual const cms::Destination * **getCMSDestination** () const throw (cms::CMSEException)
*Gets the Destination for this **Message** (p. 1737), returns a.*
- virtual void **setCMSDestination** (const cms::Destination *destination) throw (cms::CMSEException)
Sets the Destination for this message.
- virtual long long **getCMSExpiration** () const throw (cms::CMSEException)
*Gets the Expiration Time for this **Message** (p. 1737).*
- virtual void **setCMSExpiration** (long long expireTime) throw (cms::CMSEException)
Sets the Expiration Time for this message.
- virtual std::string **getCMSMessageID** () const throw (cms::CMSEException)
*Gets the CMS **Message** (p. 1737) Id for this **Message** (p. 1737).*
- virtual void **setCMSMessageID** (const std::string &id AMQCPP_UNUSED) throw (cms::CMSEException)
*Sets the CMS **Message** (p. 1737) Id for this message.*
- virtual int **getCMSPriority** () const throw (cms::CMSEException)
*Gets the Priority Value for this **Message** (p. 1737).*
- virtual void **setCMSPriority** (int priority) throw (cms::CMSEException)
Sets the Priority Value for this message.
- virtual bool **getCMSRedelivered** () const throw (cms::CMSEException)
*Gets the Redelivered Flag for this **Message** (p. 1737).*
- virtual void **setCMSRedelivered** (bool redelivered AMQCPP_UNUSED) throw (cms::CMSEException)
Sets the Redelivered Flag for this message.
- virtual const cms::Destination * **getCMSReplyTo** () const throw (cms::CMSEException)
*Gets the CMS Reply To Address for this **Message** (p. 1737).*
- virtual void **setCMSReplyTo** (const cms::Destination *destination) throw (cms::CMSEException)
Sets the CMS Reply To Address for this message.
- virtual long long **getCMSTimestamp** () const throw (cms::CMSEException)
*Gets the Time Stamp for this **Message** (p. 1737).*

- virtual void **setCMSTimestamp** (long long timeStamp) throw (cms::CMSEException)
Sets the Time Stamp for this message.
- virtual std::string **getCMSType** () const throw (cms::CMSEException)
*Gets the CMS **Message** (p. 1737) Type for this **Message** (p. 1737).*
- virtual void **setCMSType** (const std::string &type) throw (cms::CMSEException)
*Sets the CMS **Message** (p. 1737) Type for this message.*

Protected Member Functions

- void **checkReadOnlyBody** ()
- void **checkReadOnlyProperties** ()

```
template<typename T> class activemq::commands::ActiveMQMessageTemplate< T
>
```

6.37.1 Constructor & Destructor Documentation

6.37.1.1 `template<typename T>
activemq::commands::ActiveMQMessageTemplate< T
>::ActiveMQMessageTemplate () [inline]`

6.37.1.2 `template<typename T> virtual
activemq::commands::ActiveMQMessageTemplate< T
>::~~ActiveMQMessageTemplate () [inline, virtual]`

6.37.2 Member Function Documentation

6.37.2.1 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::acknowledge () const throw (cms::CMSEException) [inline, virtual]`

Acknowledges all consumed messages of the session of this consumed message.

6.37.2.2 `template<typename T> void
activemq::commands::ActiveMQMessageTemplate< T
>::checkReadOnlyBody () [inline, protected]`

6.37.2.3 `template<typename T> void
activemq::commands::ActiveMQMessageTemplate< T
>::checkReadOnlyProperties () [inline, protected]`

6.37.2.4 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::clearBody () throw (cms::CMSEException) [inline, virtual]`

Clears out the body of the message. This does not clear the headers or properties.

Reimplemented in `activemq::commands::ActiveMQBytesMessage` (p.166), and `activemq::commands::ActiveMQStreamMessage` (p.376).

6.37.2.5 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::clearProperties () throw (cms::CMSException) [inline, virtual]`

Clears the message properties. Does not clear the body or header values.

6.37.2.6 `template<typename T> virtual bool
activemq::commands::ActiveMQMessageTemplate< T
>::getBooleanProperty (const std::string & name) const throw (cms::CMSException) [inline, virtual]`

Gets a boolean property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.37.2.7 `template<typename T> virtual unsigned char
activemq::commands::ActiveMQMessageTemplate< T >::getByteProperty
(const std::string & name) const throw (cms::CMSException) [inline,
virtual]`

Gets a byte property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.37.2.8 `template<typename T> virtual std::string
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSCorrelationID () const throw (cms::CMSException) [inline,
virtual]`

Get the Correlation Id for this message.

Returns:

string representation of the correlation Id

Exceptions:

CMSException

6.37.2.9 `template<typename T> virtual int
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSDeliveryMode () const throw (cms::CMSException) [inline,
virtual]`

Gets the DeliveryMode for this message.

Returns:

DeliveryMode enumerated value.

Exceptions:

CMSException

6.37.2.10 `template<typename T> virtual const cms::Destination*
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSDestination () const throw (cms::CMSException) [inline,
virtual]`

Gets the Destination for this **Message** (p. 1737), returns a.

Returns:

Destination object

Exceptions:

CMSException

6.37.2.11 `template<typename T> virtual long long
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSExpiration () const throw (cms::CMSException) [inline,
virtual]`

Gets the Expiration Time for this **Message** (p. 1737).

Returns:

time value

Exceptions:

CMSException

6.37.2.12 `template<typename T> virtual std::string
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSMessageID () const throw (cms::CMSException) [inline,
virtual]`

Gets the CMS Message (p.1737) Id for this Message (p.1737).

Returns:

time value

Exceptions:

CMSException

6.37.2.13 `template<typename T> virtual int
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSPriority () const throw (cms::CMSException) [inline,
virtual]`

Gets the Priority Value for this Message (p.1737).

Returns:

priority value

Exceptions:

CMSException

6.37.2.14 `template<typename T> virtual bool
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSRedelivered () const throw (cms::CMSException) [inline,
virtual]`

Gets the Redelivered Flag for this Message (p.1737).

Returns:

redelivered value

Exceptions:

CMSException

6.37.2.15 `template<typename T> virtual const cms::Destination*
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSReplyTo () const throw (cms::CMSException) [inline,
virtual]`

Gets the CMS Reply To Address for this Message (p.1737).

Returns:

Reply To Value

Exceptions:

CMSException

6.37.2.16 `template<typename T> virtual long long
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSTimestamp () const throw (cms::CMSException) [inline,
virtual]`

Gets the Time Stamp for this Message (p. 1737).

Returns:

time stamp value

Exceptions:

CMSException

6.37.2.17 `template<typename T> virtual std::string
activemq::commands::ActiveMQMessageTemplate< T
>::getCMSType () const throw (cms::CMSException) [inline,
virtual]`

Gets the CMS Message (p. 1737) Type for this Message (p. 1737).

Returns:

type value

Exceptions:

CMSException

6.37.2.18 `template<typename T> virtual double
activemq::commands::ActiveMQMessageTemplate< T
>::getDoubleProperty (const std::string & name) const throw (cms::CMSException) [inline, virtual]`

Gets a double property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.37.2.19 `template<typename T> virtual float
activemq::commands::ActiveMQMessageTemplate< T
>::getFloatProperty (const std::string & name) const throw (
cms::CMSException) [inline, virtual]`

Gets a float property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.37.2.20 `template<typename T> virtual int
activemq::commands::ActiveMQMessageTemplate< T
>::getIntProperty (const std::string & name) const throw (
cms::CMSException) [inline, virtual]`

Gets a int property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.37.2.21 `template<typename T> virtual long long
activemq::commands::ActiveMQMessageTemplate< T
>::getLongProperty (const std::string & name) const throw (
cms::CMSException) [inline, virtual]`

Gets a long property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.37.2.22 `template<typename T> virtual std::vector<std::string>
activemq::commands::ActiveMQMessageTemplate< T
>::getPropertyNames () const throw (cms::CMSEException) [inline,
virtual]`

Retrieves the property names.

Returns:

The complete set of property names currently in this message.

6.37.2.23 `template<typename T> virtual short
activemq::commands::ActiveMQMessageTemplate< T
>::getShortProperty (const std::string & name) const throw (cms::CMSEException) [inline, virtual]`

Gets a short property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException if the property does not exist.

6.37.2.24 `template<typename T> virtual std::string
activemq::commands::ActiveMQMessageTemplate< T
>::getStringProperty (const std::string & name) const throw (cms::CMSEException) [inline, virtual]`

Gets a string property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException if the property does not exist.

6.37.2.25 `template<typename T> virtual bool
activemq::commands::ActiveMQMessageTemplate< T
>::propertyExists (const std::string & name) const throw (cms::CMSEException) [inline, virtual]`

Indicates whether or not a given property exists.

Parameters:

name The name of the property to look up.

Returns:

True if the property exists in this message.

6.37.2.26 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setBooleanProperty (const std::string & name, bool value) throw (
cms::CMSException) [inline, virtual]`

Sets a boolean property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.37.2.27 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setByteProperty (const std::string & name, unsigned char value)
throw (cms::CMSException) [inline, virtual]`

Sets a byte property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.37.2.28 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setCMSCorrelationID (const std::string & correlationId) throw (
cms::CMSException) [inline, virtual]`

Sets the Correlation Id used by this message.

Parameters:

correlationId - String representing the correlation id.

Exceptions:

CMSException

```
6.37.2.29  template<typename T> virtual void
           activemq::commands::ActiveMQMessageTemplate< T
           >::setCMSDeliveryMode (int mode) throw ( cms::CMSException )
           [inline, virtual]
```

Sets the DeliveryMode for this message.

Parameters:

mode - DeliveryMode enumerated value.

Exceptions:

CMSException

```
6.37.2.30  template<typename T> virtual void
           activemq::commands::ActiveMQMessageTemplate< T
           >::setCMSDestination (const cms::Destination * destination) throw (
           cms::CMSException ) [inline, virtual]
```

Sets the Destination for this message.

Parameters:

destination - Destination Object

Exceptions:

CMSException

```
6.37.2.31  template<typename T> virtual void
           activemq::commands::ActiveMQMessageTemplate< T
           >::setCMSExpiration (long long expireTime) throw (
           cms::CMSException ) [inline, virtual]
```

Sets the Expiration Time for this message.

Parameters:

expireTime - time value

Exceptions:

CMSException

```
6.37.2.32  template<typename T> virtual void
           activemq::commands::ActiveMQMessageTemplate< T
           >::setCMSMessageID (const std::string &id AMQCPP_UNUSED)
           throw ( cms::CMSException ) [inline, virtual]
```

Sets the CMS Message (p. 1737) Id for this message.

Parameters:

id - time value

Exceptions:

CMSException

6.37.2.33 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setCMSPriority (int priority) throw (cms::CMSException) [inline,
virtual]`

Sets the Priority Value for this message.

Parameters:

priority - priority value for this message

Exceptions:

CMSException

6.37.2.34 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setCMSRedelivered (bool redelivered AMQCPP_UNUSED) throw (cms::CMSException) [inline, virtual]`

Sets the Redelivered Flag for this message.

Parameters:

redelivered - boolean redelivered value

Exceptions:

CMSException

6.37.2.35 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setCMSReplyTo (const cms::Destination * destination) throw (cms::CMSException) [inline, virtual]`

Sets the CMS Reply To Address for this message.

Parameters:

destination Pointer to the CMS Destination that is the Reply-To value.

Exceptions:

CMSException

6.37.2.36 `template<typename T> virtual void
 activemq::commands::ActiveMQMessageTemplate< T
 >::setCMSTimestamp (long long timeStamp) throw (
 cms::CMSException) [inline, virtual]`

Sets the Time Stamp for this message.

Parameters:

timeStamp - integer time stamp value

Exceptions:

CMSException

6.37.2.37 `template<typename T> virtual void
 activemq::commands::ActiveMQMessageTemplate< T
 >::setCMSType (const std::string & type) throw (cms::CMSException)
 [inline, virtual]`

Sets the CMS **Message** (p.1737) Type for this message.

Parameters:

type - message type value string

Exceptions:

CMSException

6.37.2.38 `template<typename T> virtual void
 activemq::commands::ActiveMQMessageTemplate< T
 >::setDoubleProperty (const std::string & name, double value) throw (
 cms::CMSException) [inline, virtual]`

Sets a double property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.37.2.39 `template<typename T> virtual void
 activemq::commands::ActiveMQMessageTemplate< T
 >::setFloatProperty (const std::string & name, float value) throw (
 cms::CMSException) [inline, virtual]`

Sets a float property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException

6.37.2.40 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setIntProperty (const std::string & name, int value) throw (
cms::CMSEException) [inline, virtual]`

Sets a int property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException

6.37.2.41 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setLongProperty (const std::string & name, long long value) throw (
cms::CMSEException) [inline, virtual]`

Sets a long property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException

6.37.2.42 `template<typename T> virtual void
activemq::commands::ActiveMQMessageTemplate< T
>::setShortProperty (const std::string & name, short value) throw (
cms::CMSEException) [inline, virtual]`

Sets a short property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException

6.37.2.43 `template<typename T> virtual void
 activemq::commands::ActiveMQMessageTemplate< T
 >::setStringProperty (const std::string & name, const std::string &
 value) throw (cms::CMSEException) [inline, virtual]`

Sets a string property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQMessageTemplate.h`

6.38 activemq::commands::ActiveMQObjectMessage Class Reference

`#include <src/main/activemq/commands/ActiveMQObjectMessage.h>` Inheritance diagram for `activemq::commands::ActiveMQObjectMessage`:

Public Member Functions

- **ActiveMQObjectMessage** ()
- virtual **~ActiveMQObjectMessage** ()
- virtual unsigned char **getDataStructureType** () const

Get the unique identifier that this object and its own Marshaller share.

- virtual **ActiveMQObjectMessage * cloneDataStructure** () const

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

- virtual void **copyDataStructure** (const **DataStructure** *src)

Copy the contents of the passed object into this objects members, overwriting any existing data.

- virtual std::string **toString** () const

*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*

- virtual bool **equals** (const **DataStructure** *value) const

*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*

- virtual **cms::Message * clone** () const

Clone this message exactly, returns a new instance that the caller is required to delete.

Static Public Attributes

- static const unsigned char **ID _ACTIVEMQOBJECTMESSAGE** = 26

6.38.1 Constructor & Destructor Documentation

6.38.1.1 `activemq::commands::ActiveMQObjectMessage::ActiveMQObjectMessage()`

6.38.1.2 `virtual activemq::commands::ActiveMQObjectMessage::~~ActiveMQObjectMessage()` [inline, virtual]

6.38.2 Member Function Documentation

6.38.2.1 `virtual cms::Message* activemq::commands::ActiveMQObjectMessage::clone()` const [inline, virtual]

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implements `cms::Message` (p.1758).

6.38.2.2 `virtual ActiveMQObjectMessage* activemq::commands::ActiveMQObjectMessage::cloneDataStructure()` const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::Message` (p.1741).

6.38.2.3 `virtual void activemq::commands::ActiveMQObjectMessage::copyDataStructure(const DataStructure * src)` [virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::Message` (p.1742).

6.38.2.4 `virtual bool activemq::commands::ActiveMQObjectMessage::equals(const DataStructure * value)` const [virtual]

Compares the `DataStructure` (p.1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

Reimplemented from `activemq::commands::Message` (p. 1742).

6.38.2.5 `virtual unsigned char activemq::commands::ActiveMQObjectMessage::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new `DataStructure` (p. 1174) type copy.

Reimplemented from `activemq::commands::Message` (p. 1743).

6.38.2.6 `virtual std::string activemq::commands::ActiveMQObjectMessage::toString () const [virtual]`

Returns a string containing the information for this `DataStructure` (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::Message` (p. 1749).

6.38.3 Field Documentation

6.38.3.1 `const unsigned char activemq::commands::ActiveMQObjectMessage::ID__ - ACTIVEMQOBJECTMESSAGE = 26 [static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQObjectMessage.h`

6.39

`activemq:wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller`

Class Reference

~~6.39~~ `activemq:wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller` ³¹³

Class Reference

Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 313).

`#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQObjectMessageMarshaller.h>`
UML class diagram for `activemq:wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller`:

Public Member Functions

- **ActiveMQObjectMessageMarshaller** ()
- virtual `~ActiveMQObjectMessageMarshaller` ()
- virtual `commands::DataStructure * createObject` () const
Creates a new instance of this marshalable type.
- virtual unsigned char `getDataStructureType` () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void `tightUnmarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataInputStream *dataIn, utils::BooleanStream *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int `tightMarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, utils::BooleanStream *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void `tightMarshal2` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataOutputStream *dataOut, utils::BooleanStream *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void `looseUnmarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataInputStream *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void `looseMarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataOutputStream *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.39.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 313).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the `activemq-openwire-generator` module

6.39.2 Constructor & Destructor Documentation

6.39.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::ActiveMQObjectMessageMarshaller()` [inline]

6.39.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::~ActiveMQObjectMessageMarshaller()` [inline, virtual]

6.39.3 Member Function Documentation

6.39.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.39.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.39.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::marshal(const OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.39

activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller

Class Reference

315

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1867).

6.39.3.4 virtual void ac-

```
timemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::looseUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn) throw (
    decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1867).

6.39.3.5 virtual int ac-

```
timemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::tightMarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException )
[virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1868).

6.39.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

6.39.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQObjectMessageMarshaller.h`

6.40

`activemq:wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller`

Class Reference

~~6.40~~ `activemq:wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` ³¹⁷

Class Reference

Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 317).

`#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQObjectMessageMarshaller.h>` Include diagram for `activemq:wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller`:

Public Member Functions

- **ActiveMQObjectMessageMarshaller** ()
- virtual `~ActiveMQObjectMessageMarshaller` ()
- virtual `commands::DataStructure * createObject` () const
Creates a new instance of this marshalable type.
- virtual unsigned char `getDataStructureType` () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void `tightUnmarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataInputStream *dataIn, utils::BooleanStream *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int `tightMarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, utils::BooleanStream *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void `tightMarshal2` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataOutputStream *dataOut, utils::BooleanStream *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void `looseUnmarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataInputStream *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void `looseMarshal` (OpenWireFormat *wireFormat, commands::DataStructure *dataStructure, decaf::io::DataOutputStream *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.40.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 317).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the `activemq-openwire-generator` module

6.40.2 Constructor & Destructor Documentation

6.40.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::ActiveMQObjectMessageMarshaller()` [inline]

6.40.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::~ActiveMQObjectMessageMarshaller()` [inline, virtual]

6.40.3 Member Function Documentation

6.40.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::createObject(const commands::DataStructure& dataStructure) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.40.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.40.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::marshal(const OpenWireFormat* wireFormat, commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.40

activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller

Class Reference

319

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1872).

6.40.3.4 virtual void ac-

```
ativemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::looseUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn) throw (
    decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1872).

6.40.3.5 virtual int ac-

```
ativemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::tightMarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException )
[virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1873).

6.40.3.6 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

6.40.3.7 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQObjectMessageMarshaller.h`

6.41

`activemq:wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller`

Class Reference

~~6.41~~ `activemq:wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller` ³²¹

Class Reference

Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 321).

```
#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQObjectMessageMarshaller.h>
Inheritance diagram for activemq:wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller:
```

Public Member Functions

- **ActiveMQObjectMessageMarshaller** ()
- virtual **~ActiveMQObjectMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.41.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 321).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.41.2 Constructor & Destructor Documentation

6.41.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::ActiveMQObjectMessageMarshaller()` [inline]

6.41.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::~ActiveMQObjectMessageMarshaller()` [inline, virtual]

6.41.3 Member Function Documentation

6.41.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.41.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.41.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::marshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.41

activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller

Class Reference

323

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1862).

6.41.3.4 virtual void ac-

```
timemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::looseUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn) throw (
    decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1862).

6.41.3.5 virtual int ac-

```
timemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::tightMarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException )
[virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1863).

6.41.3.6 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

6.41.3.7 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQObjectMessageMarshaller.h`

6.42 activemq::core::ActiveMQProducer Class Reference

#include <src/main/activemq/core/ActiveMQProducer.h> Inheritance diagram for activemq::core::ActiveMQProducer:

Public Member Functions

- **ActiveMQProducer** (const **Pointer**< **commands::ProducerInfo** > &producerInfo, const **Pointer**< **cms::Destination** > &destination, **ActiveMQSession** *session)
*Constructor, creates an instance of an **ActiveMQProducer** (p. 325).*
- virtual ~**ActiveMQProducer** ()
- virtual void **close** () throw (cms::CMSException)
Closes the Consumer.
- virtual void **send** (cms::Message *message) throw (cms::CMSException)
Sends the message to the default producer destination.
- virtual void **send** (cms::Message *message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSException)
Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.
- virtual void **send** (const cms::Destination *destination, cms::Message *message) throw (cms::CMSException)
Sends the message to the designated destination.
- virtual void **send** (const cms::Destination *destination, cms::Message *message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSException)
Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.
- virtual void **setDeliveryMode** (int mode) throw (cms::CMSException)
Sets the delivery mode for this Producer.
- virtual int **getDeliveryMode** () const throw (cms::CMSException)
Gets the delivery mode for this Producer.
- virtual void **setDisableMessageID** (bool value) throw (cms::CMSException)
Sets if Message Ids are disabled for this Producer.
- virtual bool **getDisableMessageID** () const throw (cms::CMSException)
Gets if Message Ids are disabled for this Producer.
- virtual void **setDisableMessageTimeStamp** (bool value) throw (cms::CMSException)
Sets if Message Time Stamps are disabled for this Producer.
- virtual bool **getDisableMessageTimeStamp** () const throw (cms::CMSException)

Gets if Message Time Stamps are disabled for this Producer.

- virtual void **setPriority** (int priority) throw (cms::CMSEException)
Sets the Priority that this Producers sends messages at.
- virtual int **getPriority** () const throw (cms::CMSEException)
Gets the Priority level that this producer sends messages at.
- virtual void **setTimeToLive** (long long time) throw (cms::CMSEException)
Sets the Time to Live that this Producers sends messages with.
- virtual long long **getTimeToLive** () const throw (cms::CMSEException)
Gets the Time to Live that this producer sends messages with.
- virtual void **setSendTimeout** (long long time) throw (cms::CMSEException)
Sets the Send Timeout that this Producers sends messages with.
- virtual long long **getSendTimeout** () const throw (cms::CMSEException)
Gets the Send Timeout that this producer sends messages with.
- bool **isClosed** () const
- const **commands::ProducerInfo** & **getProducerInfo** () const
Retries this object ProducerInfo pointer.
- **commands::ProducerId** & **getProducerId** () const
Retries this object ProducerId or NULL if closed.
- virtual void **onProducerAck** (const **commands::ProducerAck** &ack)
Handles the work of Processing a ProducerAck Command from the Broker.

6.42.1 Constructor & Destructor Documentation

6.42.1.1 **activemq::core::ActiveMQProducer::ActiveMQProducer** (const **Pointer**< **commands::ProducerInfo** > & *producerInfo*, const **Pointer**< **cms::Destination** > & *destination*, **ActiveMQSession** * *session*)

Constructor, creates an instance of an **ActiveMQProducer** (p. 325).

Parameters:

producerInfo Pointer to a ProducerInfo command which identifies this producer.

destination The assigned Destination this Producer sends to, or null if not set. The Producer does not own the Pointer passed.

session The Session which is the parent of this Producer.

6.42.1.2 `virtual activemq::core::ActiveMQProducer::~~ActiveMQProducer ()`
[virtual]

6.42.2 Member Function Documentation

6.42.2.1 `virtual void activemq::core::ActiveMQProducer::close () throw (`
`cms::CMSException)` [virtual]

Closes the Consumer. This will return all allocated resources and purge any outstanding messages. This method will block if there is a call to receive in progress, or a dispatch to a MessageListener in place

Exceptions:

CMSException

Implements `cms::Closeable` (p. 838).

6.42.2.2 `virtual int activemq::core::ActiveMQProducer::getDeliveryMode () const`
`throw (cms::CMSException)` [inline, virtual]

Gets the delivery mode for this Producer.

Returns:

The DeliveryMode

Implements `cms::MessageProducer` (p. 1879).

6.42.2.3 `virtual bool activemq::core::ActiveMQProducer::getDisableMessageID ()`
`const throw (cms::CMSException)` [inline, virtual]

Gets if Message Ids are disabled for this Producer.

Returns:

a boolean indicating **state** (p. 65) enable / disable (true / false) for MessageIds.

Implements `cms::MessageProducer` (p. 1880).

6.42.2.4 `virtual bool ac-`
`tivemq::core::ActiveMQProducer::getDisableMessageTimeStamp () const`
`throw (cms::CMSException)` [inline, virtual]

Gets if Message Time Stamps are disabled for this Producer.

Returns:

boolean indicating **state** (p. 65) of enable / disable (true / false)

Implements `cms::MessageProducer` (p. 1880).

6.42.2.5 `virtual int activemq::core::ActiveMQProducer::getPriority () const throw (cms::CMSEException) [inline, virtual]`

Gets the Priority level that this producer sends messages at.

Returns:

int based priority level

Implements `cms::MessageProducer` (p.1880).

6.42.2.6 `commands::ProducerId& activemq::core::ActiveMQProducer::getProducerId () const [inline]`

Retries this object ProducerId or NULL if closed.

Returns:

ProducerId Reference

6.42.2.7 `const commands::ProducerInfo& activemq::core::ActiveMQProducer::getProducerInfo () const [inline]`

Retries this object ProducerInfo pointer.

Returns:

ProducerInfo Reference

6.42.2.8 `virtual long long activemq::core::ActiveMQProducer::getSendTimeout () const throw (cms::CMSEException) [inline, virtual]`

Gets the Send Timeout that this producer sends messages with.

Returns:

The default send timeout value in milliseconds.

6.42.2.9 `virtual long long activemq::core::ActiveMQProducer::getTimeToLive () const throw (cms::CMSEException) [inline, virtual]`

Gets the Time to Live that this producer sends messages with.

Returns:

The default time to live value in milliseconds.

Implements `cms::MessageProducer` (p.1880).

6.42.2.10 `bool activemq::core::ActiveMQProducer::isClosed () const [inline]`**Returns:**

true if this Producer has been closed.

6.42.2.11 `virtual void activemq::core::ActiveMQProducer::onProducerAck (const commands::ProducerAck & ack) [virtual]`

Handles the work of Processing a ProducerAck Command from the Broker.

Parameters:

ack - The ProducerAck message received from the Broker.

6.42.2.12 `virtual void activemq::core::ActiveMQProducer::send (const cms::Destination * destination, cms::Message * message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSException) [virtual]`

Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.

Parameters:

destination - a Message Object Pointer

message - a Message Object Pointer

deliveryMode The delivery mode to be used.

priority The priority for this message.

timeToLive The time to live value for this message in milliseconds.

Exceptions:

CMSException

Implements `cms::MessageProducer` (p.1881).

6.42.2.13 `virtual void activemq::core::ActiveMQProducer::send (const cms::Destination * destination, cms::Message * message) throw (cms::CMSException) [virtual]`

Sends the message to the designated destination.

Parameters:

destination The CMS Destination that defines where the message is sent.

message A Message Object Pointer

Exceptions:

CMSException

Implements `cms::MessageProducer` (p.1881).

6.42.2.14 `virtual void activemq::core::ActiveMQProducer::send (cms::Message * message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSEException)` [virtual]

Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.

Parameters:

message A Message Object Pointer

deliveryMode The delivery mode to be used.

priority The priority for this message.

timeToLive The time to live value for this message in milliseconds.

Exceptions:

CMSEException

Implements `cms::MessageProducer` (p. 1882).

6.42.2.15 `virtual void activemq::core::ActiveMQProducer::send (cms::Message * message) throw (cms::CMSEException)` [virtual]

Sends the message to the default producer destination.

Parameters:

message A Message Object Pointer for the Message to send.

Exceptions:

CMSEException

Implements `cms::MessageProducer` (p. 1882).

6.42.2.16 `virtual void activemq::core::ActiveMQProducer::setDeliveryMode (int mode) throw (cms::CMSEException)` [inline, virtual]

Sets the delivery mode for this Producer.

Parameters:

mode - The DeliveryMode to use for Message sends.

Implements `cms::MessageProducer` (p. 1882).

6.42.2.17 `virtual void activemq::core::ActiveMQProducer::setDisableMessageID (bool value) throw (cms::CMSEException)` [inline, virtual]

Sets if Message Ids are disabled for this Producer.

Parameters:

value - boolean indicating enable / disable (true / false)

Implements `cms::MessageProducer` (p. 1883).

6.42.2.18 `virtual void activemq::core::ActiveMQProducer::setDisableMessageTimeStamp (bool value) throw (cms::CMSException) [inline, virtual]`

Sets if Message Time Stamps are disabled for this Producer.

Parameters:

value - boolean indicating enable / disable (true / false)

Implements **cms::MessageProducer** (p.1883).

6.42.2.19 `virtual void activemq::core::ActiveMQProducer::setPriority (int priority) throw (cms::CMSException) [inline, virtual]`

Sets the Priority that this Producers sends messages at.

Parameters:

priority int value for Priority level

Implements **cms::MessageProducer** (p.1883).

6.42.2.20 `virtual void activemq::core::ActiveMQProducer::setSendTimeout (long long time) throw (cms::CMSException) [inline, virtual]`

Sets the Send Timeout that this Producers sends messages with.

Parameters:

time The new default send timeout value in milliseconds.

6.42.2.21 `virtual void activemq::core::ActiveMQProducer::setTimeToLive (long long time) throw (cms::CMSException) [inline, virtual]`

Sets the Time to Live that this Producers sends messages with.

Parameters:

time The new default time to live value in milliseconds.

Implements **cms::MessageProducer** (p.1883).

The documentation for this class was generated from the following file:

- `src/main/activemq/core/ActiveMQProducer.h`

6.43 activemq::util::ActiveMQProperties Class Reference

Implementation of the CMSProperties interface that delegates to a **decaf::util::Properties** (p. 2140) object.

#include <src/main/activemq/util/ActiveMQProperties.h> Inheritance diagram for activemq::util::ActiveMQProperties:

Public Member Functions

- virtual **~ActiveMQProperties** ()
- virtual **decaf::util::Properties** & **getProperties** ()
- virtual const **decaf::util::Properties** & **getProperties** () const
- virtual void **setProperties** (decaf::util::Properties &props)
- virtual bool **isEmpty** () const
Returns true if the properties object is empty.
- virtual const char * **getProperty** (const std::string &name) const
Looks up the value for the given property.
- virtual std::string **getProperty** (const std::string &name, const std::string &defaultValue) const
Looks up the value for the given property.
- virtual void **setProperty** (const std::string &name, const std::string &value)
Sets the value for a given property.
- virtual bool **hasProperty** (const std::string &name) const
Check to see if the Property exists in the set.
- virtual void **remove** (const std::string &name)
Removes the property with the given name.
- virtual std::vector< std::pair< std::string, std::string > > **toArray** () const
Method that serializes the contents of the property map to an arrayay.
- virtual void **copy** (const CMSProperties *source)
Copies the contents of the given properties object to this one.
- virtual CMSProperties * **clone** () const
Clones this object.
- virtual void **clear** ()
Clears all properties from the map.
- virtual std::string **toString** () const
Formats the contents of the Properties Object into a string that can be logged, etc.

6.43.1 Detailed Description

Implementation of the CMSProperties interface that delegates to a **decaf::util::Properties** (p. 2140) object.

Since:

2.0

6.43.2 Constructor & Destructor Documentation

6.43.2.1 `virtual activemq::util::ActiveMQProperties::~~ActiveMQProperties ()` [virtual]

6.43.3 Member Function Documentation

6.43.3.1 `virtual void activemq::util::ActiveMQProperties::clear ()` [inline, virtual]

Clears all properties from the map.

Implements **cms::CMSProperties** (p. 854).

6.43.3.2 `virtual CMSProperties* activemq::util::ActiveMQProperties::clone ()`
`const` [virtual]

Clones this object.

Returns:

a replica of this object.

Implements **cms::CMSProperties** (p. 854).

6.43.3.3 `virtual void activemq::util::ActiveMQProperties::copy (const`
`CMSProperties * source)` [virtual]

Copies the contents of the given properties object to this one.

Parameters:

source The source properties object.

6.43.3.4 `virtual const decaf::util::Properties& activemq::util::ActiveMQProperties::getProperties () const` [inline, virtual]

6.43.3.5 `virtual decaf::util::Properties& activemq::util::ActiveMQProperties::getProperties ()` [inline, virtual]

6.43.3.6 `virtual std::string activemq::util::ActiveMQProperties::getProperty (const std::string & name, const std::string & defaultValue) const` [inline, virtual]

Looks up the value for the given property.

Parameters:

name the name of the property to be looked up.

defaultValue The value to be returned if the given property does not exist.

Returns:

The value of the property specified by *name*, if it exists, otherwise the *defaultValue*.

Implements **cms::CMSProperties** (p. 854).

6.43.3.7 `virtual const char* activemq::util::ActiveMQProperties::getProperty (const std::string & name) const` [inline, virtual]

Looks up the value for the given property.

Parameters:

name The name of the property to be looked up.

Returns:

the value of the property with the given name, if it exists. If it does not exist, returns NULL.

Implements **cms::CMSProperties** (p. 855).

6.43.3.8 `virtual bool activemq::util::ActiveMQProperties::hasProperty (const std::string & name) const` [inline, virtual]

Check to see if the Property exists in the set.

Parameters:

name - property name to check for in this properties set.

Returns:

true if property exists, false otherwise.

Implements **cms::CMSProperties** (p. 855).

6.43.3.9 virtual bool activemq::util::ActiveMQProperties::isEmpty () const
[inline, virtual]

Returns true if the properties object is empty.

Returns:

true if empty

Implements **cms::CMSProperties** (p. 855).

6.43.3.10 virtual void activemq::util::ActiveMQProperties::remove (const std::string & name) [inline, virtual]

Removes the property with the given name.

Parameters:

name the name of the property to remove.

Implements **cms::CMSProperties** (p. 855).

6.43.3.11 virtual void activemq::util::ActiveMQProperties::setProperties (decaf::util::Properties & props) [inline, virtual]**6.43.3.12 virtual void activemq::util::ActiveMQProperties::setProperty (const std::string & name, const std::string & value)** [inline, virtual]

Sets the value for a given property. If the property already exists, overwrites the value.

Parameters:

name The name of the value to be written.

value The value to be written.

Implements **cms::CMSProperties** (p. 856).

6.43.3.13 virtual std::vector< std::pair< std::string, std::string > > activemq::util::ActiveMQProperties::toArray () const [inline, virtual]

Method that serializes the contents of the property map to an array.

Returns:

list of pairs where the first is the name and the second is the value.

Implements **cms::CMSProperties** (p. 856).

6.43.3.14 virtual std::string activemq::util::ActiveMQProperties::toString () const
[inline, virtual]

Formats the contents of the Properties Object into a string that can be logged, etc.

Returns:

string value of this object.

Implements **cms::CMSProperties** (p. 856).

The documentation for this class was generated from the following file:

- `src/main/activemq/util/ActiveMQProperties.h`

6.44 activemq::commands::ActiveMQQueue Class Reference

#include <src/main/activemq/commands/ActiveMQQueue.h> Inheritance diagram for activemq::commands::ActiveMQQueue:

Public Member Functions

- **ActiveMQQueue** ()
- **ActiveMQQueue** (const std::string &name)
- virtual ~**ActiveMQQueue** ()
- virtual unsigned char **getDataStructureType** () const
*Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.*
- virtual **ActiveMQQueue** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const cms::Destination * **getCMSDestination** () const
- virtual cms::Destination::DestinationType **getDestinationType** () const
Retrieve the Destination Type for this Destination.
- virtual cms::Destination * **clone** () const
Creates a new instance of this destination type that is a copy of this one, and returns it.
- virtual void **copy** (const cms::Destination &source)
Copies the contents of the given Destinastion object to this one.
- virtual const cms::CMSProperties & **getCMSProperties** () const
Retrieve any properties that might be part of the destination that was specified.
- virtual std::string **getQueueName** () const throw (cms::CMSException)
Gets the name of this queue.

Static Public Attributes

- static const unsigned char **ID _ACTIVEMQQUEUE** = 100

6.44.1 Constructor & Destructor Documentation

6.44.1.1 `activemq::commands::ActiveMQQueue::ActiveMQQueue ()`

6.44.1.2 `activemq::commands::ActiveMQQueue::ActiveMQQueue (const std::string & name)`

6.44.1.3 `virtual activemq::commands::ActiveMQQueue::~~ActiveMQQueue ()`
[inline, virtual]

6.44.2 Member Function Documentation

6.44.2.1 `virtual cms::Destination* activemq::commands::ActiveMQQueue::clone ()`
`const` [inline, virtual]

Creates a new instance of this destination type that is a copy of this one, and returns it.

Returns:

cloned copy of this object

Implements **cms::Destination** (p.1191).

6.44.2.2 `virtual ActiveMQQueue* activemq::commands::ActiveMQQueue::cloneDataStructure ()`
`const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 231).

6.44.2.3 `virtual void activemq::commands::ActiveMQQueue::copy (const cms::Destination & source)` [inline, virtual]

Copies the contents of the given Destination object to this one.

Parameters:

source The source Destination object.

6.44.2.4 `virtual void activemq::commands::ActiveMQQueue::copyDataStructure (const DataStructure * src)` [virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 232).

6.44.2.5 virtual bool activemq::commands::ActiveMQQueue::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

6.44.2.6 virtual const cms::Destination* activemq::commands::ActiveMQQueue::getCMSDestination () const [inline, virtual]**Returns:**

the **cms::Destination** (p. 1190) interface pointer that the objects that derive from this class implement.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

6.44.2.7 virtual const cms::CMSProperties& activemq::commands::ActiveMQQueue::getCMSProperties () const [inline, virtual]

Retrieve any properties that might be part of the destination that was specified. This is a deviation from the JMS spec but necessary due to C++ restrictions.

Returns:

const reference to a properties object.

Implements **cms::Destination** (p. 1191).

6.44.2.8 virtual unsigned char activemq::commands::ActiveMQQueue::getDataStructureType () const [virtual]

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

6.44.2.9 virtual cms::Destination::DestinationType activemq::commands::ActiveMQQueue::getDestinationType () const [inline, virtual]

Retrieve the Destination Type for this Destination.

Returns:

The Destination Type

Implements **activemq::commands::ActiveMQDestination** (p. 234).

References **cms::Destination::QUEUE**.

6.44.2.10 `virtual std::string activemq::commands::ActiveMQQueue::getQueueName
() const throw (cms::CMSException) [inline, virtual]`

Gets the name of this queue.

Returns:

The queue name.

Implements **cms::Queue** (p. 2157).

6.44.2.11 `virtual std::string activemq::commands::ActiveMQQueue::toString ()
const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 237).

6.44.3 Field Documentation

6.44.3.1 `const unsigned char activemq::commands::ActiveMQQueue::ID_-
ACTIVEMQQUEUE = 100 [static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQQueue.h`

6.45 activemq:wireformat::openwire::marshal:v3::ActiveMQQueueMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 341).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQQueueMarshaller.h> Inheritance diagram for activemq:wireformat::openwire::marshal:v3::ActiveMQQueueMarshaller:

Public Member Functions

- **ActiveMQQueueMarshaller** ()
- virtual **~ActiveMQQueueMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.45.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 341). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.45.2 Constructor & Destructor Documentation

6.45.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::ActiveMQQueueMarshaller()` [inline]

6.45.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::~~ActiveMQQueueMarshaller()` [inline, virtual]

6.45.3 Member Function Documentation

6.45.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.45.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.45.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller` (p. 241).

6.45.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller` (p. 241).

6.45.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller` (p. 242).

```

6.45.3.6 virtual void ac-
      tivemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::tightMarshal2
      (OpenWireFormat * wireFormat, commands::DataStructure
      * dataStructure, decaf::io::DataOutputStream * dataOut,
      utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 242).

```

6.45.3.7 virtual void ac-
      tivemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller::tightUnmarshal
      (OpenWireFormat * wireFormat, commands::DataStructure *
      dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
      * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 243).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQQueueMarshaller.h`

6.46 activemq:wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 345).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQQueueMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller:

Public Member Functions

- **ActiveMQQueueMarshaller** ()
- virtual **~ActiveMQQueueMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.46.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 345). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.46.2 Constructor & Destructor Documentation

6.46.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::ActiveMQQueueMarshaller()` [inline]

6.46.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::~~ActiveMQQueueMarshaller()` [inline, virtual]

6.46.3 Member Function Documentation

6.46.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.46.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.46.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 245).

6.46.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 245).

6.46.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 246).

```

6.46.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::tightMarshal2
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 246).

```

6.46.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller::tightUnmarshal
    (OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
    * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 247).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ActiveMQQueueMarshaller.h**

6.47 activemq:wireformat::openwire::marshal:v2::ActiveMQQueueMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 349).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQQueueMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal:v2::ActiveMQQueueMarshaller:

Public Member Functions

- **ActiveMQQueueMarshaller** ()
- virtual **~ActiveMQQueueMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.47.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 349). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.47.2 Constructor & Destructor Documentation

6.47.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::ActiveMQQueueMarshaller()` [inline]

6.47.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::~~ActiveMQQueueMarshaller()` [inline, virtual]

6.47.3 Member Function Documentation

6.47.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.47.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.47.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller` (p. 249).

6.47.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller` (p. 249).

6.47.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller` (p. 250).

```

6.47.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::tightMarshal2
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 250).

```

6.47.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller::tightUnmarshal
    (OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
    * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 251).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ActiveMQQueueMarshaller.h**

6.48 activemq::core::ActiveMQSession Class Reference

#include <src/main/activemq/core/ActiveMQSession.h> Inheritance diagram for activemq::core::ActiveMQSession:

Public Member Functions

- **ActiveMQSession** (const **Pointer**< **commands::SessionInfo** > &sessionInfo, **cms::Session::AcknowledgeMode** ackMode, const **decaf::util::Properties** &properties, **ActiveMQConnection** *connection)
- virtual **~ActiveMQSession** ()
- void **redispatch** (**MessageDispatchChannel** &unconsumedMessages)
Redispatches the given set of unconsumed messages to the consumers.
- void **start** ()
Stops asynchronous message delivery.
- void **stop** ()
Starts asynchronous message delivery.
- bool **isStarted** () const
*Indicates whether or not the session is currently in the started **state** (p. 65).*
- bool **isAutoAcknowledge** () const
- bool **isDupsOkAcknowledge** () const
- bool **isClientAcknowledge** () const
- void **fire** (const **exceptions::ActiveMQException** &ex)
Fires the given exception to the exception listener of the connection.
- virtual void **dispatch** (const **Pointer**< **MessageDispatch** > &message)
Dispatches a message to a particular consumer.
- virtual void **close** () throw (**cms::CMSEException**)
Closes this session as well as any active child consumers or producers.
- virtual void **commit** () throw (**cms::CMSEException**)
Commits all messages done in this transaction and releases any locks currently held.
- virtual void **rollback** () throw (**cms::CMSEException**)
Rollsback all messages done in this transaction and releases any locks currently held.
- virtual void **recover** () throw (**cms::CMSEException**)
Stops message delivery in this session, and restarts message delivery with the oldest unacknowledged message.
- virtual **cms::MessageConsumer** * **createConsumer** (const **cms::Destination** *destination) throw (**cms::CMSEException**)
Creates a MessageConsumer for the specified destination.

- virtual **cms::MessageConsumer** * **createConsumer** (const **cms::Destination** *destination, const std::string &selector) throw (cms::CMSEException)
Creates a MessageConsumer for the specified destination, using a message selector.
- virtual **cms::MessageConsumer** * **createConsumer** (const **cms::Destination** *destination, const std::string &selector, bool noLocal) throw (cms::CMSEException)
Creates a MessageConsumer for the specified destination, using a message selector.
- virtual **cms::MessageConsumer** * **createDurableConsumer** (const **cms::Topic** *destination, const std::string &name, const std::string &selector, bool noLocal=false) throw (cms::CMSEException)
Creates a durable subscriber to the specified topic, using a message selector.
- virtual **cms::MessageProducer** * **createProducer** (const **cms::Destination** *destination) throw (cms::CMSEException)
Creates a MessageProducer to send messages to the specified destination.
- virtual **cms::QueueBrowser** * **createBrowser** (const **cms::Queue** *queue) throw (cms::CMSEException)
Creates a new QueueBrowser to peek at Messages on the given Queue.
- virtual **cms::QueueBrowser** * **createBrowser** (const **cms::Queue** *queue, const std::string &selector) throw (cms::CMSEException)
Creates a new QueueBrowser to peek at Messages on the given Queue.
- virtual **cms::Queue** * **createQueue** (const std::string &queueName) throw (cms::CMSEException)
Creates a queue identity given a Queue name.
- virtual **cms::Topic** * **createTopic** (const std::string &topicName) throw (cms::CMSEException)
Creates a topic identity given a Queue name.
- virtual **cms::TemporaryQueue** * **createTemporaryQueue** () throw (cms::CMSEException)
Creates a TemporaryQueue object.
- virtual **cms::TemporaryTopic** * **createTemporaryTopic** () throw (cms::CMSEException)
Creates a TemporaryTopic object.
- virtual **cms::Message** * **createMessage** () throw (cms::CMSEException)
Creates a new Message.
- virtual **cms::BytesMessage** * **createBytesMessage** () throw (cms::CMSEException)
Creates a BytesMessage.
- virtual **cms::BytesMessage** * **createBytesMessage** (const unsigned char *bytes, std::size_t bytesSize) throw (cms::CMSEException)

Creates a BytesMessage and sets the pay-load to the passed value.

- virtual **cms::StreamMessage** * **createStreamMessage** () throw (cms::CMSEException)

Creates a new StreamMessage.

- virtual **cms::TextMessage** * **createTextMessage** () throw (cms::CMSEException)

Creates a new TextMessage.

- virtual **cms::TextMessage** * **createTextMessage** (const std::string &text) throw (cms::CMSEException)

Creates a new TextMessage and set the text to the value given.

- virtual **cms::MapMessage** * **createMapMessage** () throw (cms::CMSEException)

Creates a new MapMessage.

- virtual **cms::Session::AcknowledgeMode** **getAcknowledgeMode** () const throw (cms::CMSEException)

Returns the acknowledgment mode of the session.

- virtual bool **isTransacted** () const throw (cms::CMSEException)

Gets if the Sessions is a Transacted Session.

- virtual void **unsubscribe** (const std::string &name) throw (cms::CMSEException)

Unsubscribes a durable subscription that has been created by a client.

- void **send** (cms::Message *message, **ActiveMQProducer** *producer, **util::Usage** *usage) throw (cms::CMSEException)

Sends a message from the Producer specified using this session's connection the message will be sent using the best available means depending on the configuration of the connection.

- **cms::ExceptionListener** * **getExceptionListener** ()

This method gets any registered exception listener of this sessions connection and returns it.

- const **commands::SessionInfo** & **getSessionInfo** () const

Gets the Session Information object for this session, if the session is closed than this method throws an exception.

- const **commands::SessionId** & **getSessionId** () const

Gets the Session Id object for this session, if the session is closed than this method throws an exception.

- **ActiveMQConnection** * **getConnection** () const

*Gets the **ActiveMQConnection** (p. 190) that is associated with this session.*

- void **oneway** (Pointer< **commands::Command** > command) throw (activemq::exceptions::ActiveMQException)

Sends a oneway message.

- void **syncRequest** (Pointer< **commands::Command** > command, unsigned int timeout=0) throw (activemq::exceptions::ActiveMQException)

Sends a synchronous request and returns the response from the broker.

- void **disposeOf** (decaf::lang::Pointer< commands::ConsumerId > id) throw (activemq::exceptions::ActiveMQException)

Dispose of a Consumer from this session.

- void **disposeOf** (decaf::lang::Pointer< commands::ProducerId > id) throw (activemq::exceptions::ActiveMQException)

Dispose of a Producer from this session.

- void **doStartTransaction** () throw (exceptions::ActiveMQException)

Starts if not already start a Transaction for this Session.

- void **deliverAcks** ()

Request that this Session inform all of its consumers to deliver their pending acks.

- void **clearMessagesInProgress** ()

Request that this Session inform all of its consumers to clear all messages that are currently in progress.

- void **wakeup** ()

Causes the Session to wakeup its executor and ensure all messages are dispatched.

Friends

- class **ActiveMQSessionExecutor**

6.48.1 Constructor & Destructor Documentation

- 6.48.1.1 **activemq::core::ActiveMQSession::ActiveMQSession** (const Pointer< commands::SessionInfo > & *sessionInfo*, cms::Session::AcknowledgeMode *ackMode*, const decaf::util::Properties & *properties*, ActiveMQConnection * *connection*)

- 6.48.1.2 **virtual activemq::core::ActiveMQSession::~~ActiveMQSession** () [virtual]

6.48.2 Member Function Documentation

- 6.48.2.1 **void activemq::core::ActiveMQSession::clearMessagesInProgress** ()

Request that this Session inform all of its consumers to clear all messages that are currently in progress.

- 6.48.2.2 **virtual void activemq::core::ActiveMQSession::close** () throw (cms::CMSException) [virtual]

Closes this session as well as any active child consumers or producers.

Exceptions:

CMSException

Implements **cms::Session** (p. 2273).

6.48.2.3 `virtual void activemq::core::ActiveMQSession::commit () throw (cms::CMSException) [virtual]`

Commits all messages done in this transaction and releases any locks currently held.

Exceptions:

CMSException

Implements **cms::Session** (p. 2274).

6.48.2.4 `virtual cms::QueueBrowser* activemq::core::ActiveMQSession::createBrowser (const cms::Queue * queue, const std::string & selector) throw (cms::CMSException) [virtual]`

Creates a new QueueBrowser to peek at Messages on the given Queue.

Parameters:

queue the Queue to browse

selector the Message selector to filter which messages are browsed.

Returns:

New QueueBrowser that is owned by the caller.

Exceptions:

CMSException - If an internal error occurs.

InvalidDestinationException - if the destination given is invalid.

Implements **cms::Session** (p. 2274).

6.48.2.5 `virtual cms::QueueBrowser* activemq::core::ActiveMQSession::createBrowser (const cms::Queue * queue) throw (cms::CMSException) [virtual]`

Creates a new QueueBrowser to peek at Messages on the given Queue.

Parameters:

queue the Queue to browse

Returns:

New QueueBrowser that is owned by the caller.

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if the destination given is invalid.

Implements **cms::Session** (p. 2274).

```
6.48.2.6 virtual cms::BytesMessage* ac-
        tivemq::core::ActiveMQSession::createBytesMessage (const
        unsigned char * bytes, std::size_t bytesSize) throw ( cms::CMSEException
        ) [virtual]
```

Creates a BytesMessage and sets the pay-load to the passed value.

Parameters:

bytes - an array of bytes to set in the message

bytesSize - the size of the bytes array, or number of bytes to use

Returns:

a newly created BytesMessage.

Exceptions:

CMSEException

Implements **cms::Session** (p. 2275).

```
6.48.2.7 virtual cms::BytesMessage* ac-
        tivemq::core::ActiveMQSession::createBytesMessage ()
        throw ( cms::CMSEException ) [virtual]
```

Creates a BytesMessage.

Returns:

a newly created BytesMessage.

Exceptions:

CMSEException

Implements **cms::Session** (p. 2275).

```
6.48.2.8 virtual cms::MessageConsumer* ac-
        tivemq::core::ActiveMQSession::createConsumer (const
        cms::Destination * destination, const std::string & selector, bool noLocal)
        throw ( cms::CMSEException ) [virtual]
```

Creates a MessageConsumer for the specified destination, using a message selector.

Parameters:

destination - The Destination that this consumer receiving messages for.

selector - The Message Selector string to use for this destination

noLocal - if true, and the destination is a topic, inhibits the delivery of messages published by its own connection. The behavior for NoLocal is not specified if the destination is a queue.

Exceptions:

CMSEException

Implements **cms::Session** (p. 2275).

6.48.2.9 `virtual cms::MessageConsumer* activemq::core::ActiveMQSession::createConsumer (const cms::Destination * destination, const std::string & selector) throw (cms::CMSEException)` [virtual]

Creates a MessageConsumer for the specified destination, using a message selector.

Parameters:

destination - The Destination that this consumer receiving messages for.

selector - The Message Selector string to use for this destination

Exceptions:

CMSEException

Implements **cms::Session** (p. 2276).

6.48.2.10 `virtual cms::MessageConsumer* activemq::core::ActiveMQSession::createConsumer (const cms::Destination * destination) throw (cms::CMSEException)` [virtual]

Creates a MessageConsumer for the specified destination.

Parameters:

destination - The Destination that this consumer receiving messages for.

Exceptions:

CMSEException

Implements **cms::Session** (p. 2276).

6.48.2.11 `virtual cms::MessageConsumer* activemq::core::ActiveMQSession::createDurableConsumer (const cms::Topic * destination, const std::string & name, const std::string & selector, bool noLocal = false) throw (cms::CMSEException)` [virtual]

Creates a durable subscriber to the specified topic, using a message selector.

Parameters:

destination - the topic to subscribe to
name - The name used to identify the subscription
selector - only messages matching the selector are received
noLocal - if true, and the destination is a topic, inhibits the delivery of messages published by its own connection. The behavior for NoLocal is not specified if the destination is a queue.

Exceptions:

CMSException

Implements **cms::Session** (p. 2277).

6.48.2.12 `virtual cms::MapMessage* activemq::core::ActiveMQSession::createMapMessage () throw (cms::CMSException) [virtual]`

Creates a new MapMessage.

Returns:

a newly created MapMessage.

Exceptions:

CMSException

Implements **cms::Session** (p. 2277).

6.48.2.13 `virtual cms::Message* activemq::core::ActiveMQSession::createMessage () throw (cms::CMSException) [virtual]`

Creates a new Message.

Exceptions:

CMSException

Implements **cms::Session** (p. 2278).

6.48.2.14 `virtual cms::MessageProducer* activemq::core::ActiveMQSession::createProducer (const cms::Destination * destination) throw (cms::CMSException) [virtual]`

Creates a MessageProducer to send messages to the specified destination.

Parameters:

destination - the Destination to publish on

Exceptions:

CMSException

Implements **cms::Session** (p. 2278).

6.48.2.15 `virtual cms::Queue* activemq::core::ActiveMQSession::createQueue
(const std::string & queueName) throw (cms::CMSException)
[virtual]`

Creates a queue identity given a Queue name.

Parameters:

queueName - the name of the new Queue

Exceptions:

CMSException

Implements **cms::Session** (p. 2278).

6.48.2.16 `virtual cms::StreamMessage* ac-
tivismq::core::ActiveMQSession::createStreamMessage ()
throw (cms::CMSException) [virtual]`

Creates a new StreamMessage.

Returns:

a newly created StreamMessage.

Exceptions:

CMSException

Implements **cms::Session** (p. 2279).

6.48.2.17 `virtual cms::TemporaryQueue* ac-
tivismq::core::ActiveMQSession::createTemporaryQueue ()
throw (cms::CMSException) [virtual]`

Creates a TemporaryQueue object.

Exceptions:

CMSException

Implements **cms::Session** (p. 2279).

6.48.2.18 `virtual cms::TemporaryTopic* ac-
tivismq::core::ActiveMQSession::createTemporaryTopic ()
throw (cms::CMSException) [virtual]`

Creates a TemporaryTopic object.

Exceptions:

CMSException

Implements **cms::Session** (p. 2279).

6.48.2.19 `virtual cms::TextMessage* activemq::core::ActiveMQSession::createTextMessage (const std::string & text) throw (cms::CMSException) [virtual]`

Creates a new TextMessage and set the text to the value given.

Parameters:

text - The initial text for the message

Returns:

a newly created TextMessage with the given Text set in the Message body.

Exceptions:

CMSException

Implements **cms::Session** (p. 2279).

6.48.2.20 `virtual cms::TextMessage* activemq::core::ActiveMQSession::createTextMessage () throw (cms::CMSException) [virtual]`

Creates a new TextMessage.

Returns:

a newly created TextMessage.

Exceptions:

CMSException

Implements **cms::Session** (p. 2280).

6.48.2.21 `virtual cms::Topic* activemq::core::ActiveMQSession::createTopic (const std::string & topicName) throw (cms::CMSException) [virtual]`

Creates a topic identity given a Queue name.

Parameters:

topicName - the name of the new Topic

Exceptions:

CMSException

Implements **cms::Session** (p. 2280).

6.48.2.22 `void activemq::core::ActiveMQSession::deliverAcks ()`

Request that this Session inform all of its consumers to deliver their pending acks.

6.48.2.23 `virtual void activemq::core::ActiveMQSession::dispatch (const Pointer< MessageDispatch > & message) [virtual]`

Dispatches a message to a particular consumer.

Parameters:

message - the message to be dispatched

Implements `activemq::core::Dispatcher` (p. 1230).

6.48.2.24 `void activemq::core::ActiveMQSession::disposeOf (decaf::lang::Pointer< commands::ProducerId > id) throw (activemq::exceptions::ActiveMQException)`

Dispose of a Producer from this session. Removes it from the Connection and clean up any resources associated with it.

Parameters:

id - the Id of the Producer to dispose.

Exceptions:

ActiveMQException if an internal error occurs.

6.48.2.25 `void activemq::core::ActiveMQSession::disposeOf (decaf::lang::Pointer< commands::ConsumerId > id) throw (activemq::exceptions::ActiveMQException)`

Dispose of a Consumer from this session. Removes it from the Connection and clean up any resources associated with it.

Parameters:

id - the Id of the Consumer to dispose.

Exceptions:

ActiveMQException if an internal error occurs.

6.48.2.26 `void activemq::core::ActiveMQSession::doStartTransaction () throw (exceptions::ActiveMQException)`

Starts if not already start a Transaction for this Session. If the session is not a Transacted Session then an exception is thrown. If a transaction is already in progress then this method has no effect.

Exceptions:

ActiveMQException if this is not a Transacted Session.

6.48.2.27 `void activemq::core::ActiveMQSession::fire (const exceptions::ActiveMQException & ex)`

Fires the given exception to the exception listener of the connection.

6.48.2.28 `virtual cms::Session::AcknowledgeMode activemq::core::ActiveMQSession::getAcknowledgeMode () const throw (cms::CMSException) [virtual]`

Returns the acknowledgment mode of the session.

Returns:

the Sessions Acknowledge Mode

Implements `cms::Session` (p. 2280).

6.48.2.29 `ActiveMQConnection* activemq::core::ActiveMQSession::getConnection () const [inline]`

Gets the `ActiveMQConnection` (p. 190) that is associated with this session.

6.48.2.30 `cms::ExceptionListener* activemq::core::ActiveMQSession::getExceptionListener ()`

This method gets any registered exception listener of this sessions connection and returns it. Mainly intended for use by the objects that this session creates so that they can notify the client of `exceptions` (p. 62) that occur in the context of another thread.

Returns:

`cms::ExceptionListener` (p. 1275) pointer or NULL

6.48.2.31 `const commands::SessionId& activemq::core::ActiveMQSession::getSessionId () const [inline]`

Gets the Session Id object for this session, if the session is closed than this method throws an exception.

Returns:

SessionId Reference

6.48.2.32 `const commands::SessionInfo& activemq::core::ActiveMQSession::getSessionInfo () const [inline]`

Gets the Session Information object for this session, if the session is closed than this method throws an exception.

Returns:

SessionInfo Reference

6.48.2.33 `bool activemq::core::ActiveMQSession::isAutoAcknowledge () const`
[inline]

References cms::Session::AUTO_ACKNOWLEDGE.

6.48.2.34 `bool activemq::core::ActiveMQSession::isClientAcknowledge () const`
[inline]

References cms::Session::CLIENT_ACKNOWLEDGE.

6.48.2.35 `bool activemq::core::ActiveMQSession::isDupsOkAcknowledge () const`
[inline]

References cms::Session::DUPS_OK_ACKNOWLEDGE.

6.48.2.36 `bool activemq::core::ActiveMQSession::isStarted () const`

Indicates whether or not the session is currently in the started **state** (p. 65).

6.48.2.37 `virtual bool activemq::core::ActiveMQSession::isTransacted () const`
`throw (cms::CMSException)` [virtual]

Gets if the Sessions is a Transacted Session.

Returns:

transacted true - false.

Implements cms::Session (p. 2281).

6.48.2.38 `void activemq::core::ActiveMQSession::oneway`
`(Pointer< commands::Command > command) throw (`
`activemq::exceptions::ActiveMQException)`

Sends a oneway message.

Parameters:

command The message to send.

Exceptions:

ActiveMQException if not currently connected, or if the operation fails for any reason.

6.48.2.39 virtual void activemq::core::ActiveMQSession::recover () throw (cms::CMSException) [virtual]

Stops message delivery in this session, and restarts message delivery with the oldest unacknowledged message. All consumers deliver messages in a serial order. Acknowledging a received message automatically acknowledges all messages that have been delivered to the client.

Restarting a session causes it to take the following actions:

- Stop message delivery
- Mark all messages that might have been delivered but not acknowledged as "redelivered"
- Restart the delivery sequence including all unacknowledged messages that had been previously delivered. Redelivered messages do not have to be delivered in exactly their original delivery order.

Exceptions:

CMSException - if the CMS provider fails to stop and restart message delivery due to some internal error.

IllegalStateException - if the method is called by a transacted session.

Implements **cms::Session** (p. 2281).

6.48.2.40 void activemq::core::ActiveMQSession::redispatch (MessageDispatchChannel & *unconsumedMessages*)

Redispatches the given set of unconsumed messages to the consumers.

Parameters:

unconsumedMessages - unconsumed messages to be redelivered.

6.48.2.41 virtual void activemq::core::ActiveMQSession::rollback () throw (cms::CMSException) [virtual]

Rollback all messages done in this transaction and releases any locks currently held.

Exceptions:

CMSException

Implements **cms::Session** (p. 2281).

6.48.2.42 void activemq::core::ActiveMQSession::send (cms::Message * *message*, ActiveMQProducer * *producer*, util::Usage * *usage*) throw (cms::CMSException)

Sends a message from the Producer specified using this session's connection the message will be sent using the best available means depending on the configuration of the connection. Asynchronous sends will be chosen if at all possible.

Parameters:

- message* The message to send to the broker.
- producer* The sending Producer
- usage* Pointer to a Usage tracker which if set will be increased by the size of the given message.

Exceptions:

CMSEException

6.48.2.43 void activemq::core::ActiveMQSession::start ()

Stops asynchronous message delivery.

6.48.2.44 void activemq::core::ActiveMQSession::stop ()

Starts asynchronous message delivery.

6.48.2.45 void activemq::core::ActiveMQSession::syncRequest (Pointer< commands::Command > *command*, unsigned int *timeout* = 0) throw (activemq::exceptions::ActiveMQException)

Sends a synchronous request and returns the response from the broker. Converts any error responses into an exception.

Parameters:

- command* The request command.
- timeout* The time to wait for a response, default is zero or infinite.

Exceptions:

ActiveMQException thrown if an error response was received from the broker, or if any other error occurred.

6.48.2.46 virtual void activemq::core::ActiveMQSession::unsubscribe (const std::string & *name*) throw (cms::CMSEException) [virtual]

Unsubscribes a durable subscription that has been created by a client. This method deletes the **state** (p. 65) being maintained on behalf of the subscriber by its provider. It is erroneous for a client to delete a durable subscription while there is an active MessageConsumer or Subscriber for the subscription, or while a consumed message is part of a pending transaction or has not been acknowledged in the session.

Parameters:

- name* the name used to identify this subscription

Exceptions:

CMSEException

Implements **cms::Session** (p. 2282).

6.48.2.47 void activemq::core::ActiveMQSession::wakeup ()

Causes the Session to wakeup its executor and ensure all messages are dispatched.

6.48.3 Friends And Related Function Documentation**6.48.3.1 friend class ActiveMQSessionExecutor [friend]**

The documentation for this class was generated from the following file:

- src/main/activemq/core/**ActiveMQSession.h**

6.49 activemq::core::ActiveMQSessionExecutor Class Reference

Delegate dispatcher for a single session.

#include <src/main/activemq/core/ActiveMQSessionExecutor.h> Inheritance diagram for activemq::core::ActiveMQSessionExecutor:

Public Member Functions

- **ActiveMQSessionExecutor** (**ActiveMQSession** *session)
Creates an un-started executor for the given session.
- virtual **~ActiveMQSessionExecutor** ()
*Calls **stop()** (p. 372) then **clear()** (p. 370).*
- virtual void **execute** (const **Pointer**< **MessageDispatch** > &data)
Executes the dispatch.
- virtual void **executeFirst** (const **Pointer**< **MessageDispatch** > &data)
Executes the dispatch.
- virtual void **clearMessagesInProgress** ()
Removes all messages in the Dispatch Channel so that non are delivered.
- virtual bool **hasUnconsumedMessages** () const
- virtual void **wakeup** ()
wakeup this executor and dispatch any pending messages.
- virtual void **start** ()
Starts the dispatching.
- virtual void **stop** ()
Stops dispatching.
- virtual void **close** ()
Terminates the dispatching thread.
- virtual bool **isRunning** () const
- virtual bool **isEmpty** ()
- virtual void **clear** ()
Removes all queued messages and destroys them.
- virtual bool **iterate** ()
*Iterates on the **MessageDispatchChannel** (p. 1805) sending all pending messages to the Consumers they are destined for.*
- std::vector< **Pointer**< **MessageDispatch** > > **getUnconsumedMessages** ()

6.49.1 Detailed Description

Delegate dispatcher for a single session. Contains a thread to provide for asynchronous dispatching.

6.49.2 Constructor & Destructor Documentation

6.49.2.1 `activemq::core::ActiveMQSessionExecutor::ActiveMQSessionExecutor (ActiveMQSession * session)`

Creates an un-started executor for the given session.

6.49.2.2 `virtual activemq::core::ActiveMQSessionExecutor::~~ActiveMQSessionExecutor () [virtual]`

Calls `stop()` (p. 372) then `clear()` (p. 370).

6.49.3 Member Function Documentation

6.49.3.1 `virtual void activemq::core::ActiveMQSessionExecutor::clear () [inline, virtual]`

Removes all queued messages and destroys them.

6.49.3.2 `virtual void activemq::core::ActiveMQSessionExecutor::clearMessagesInProgress () [inline, virtual]`

Removes all messages in the Dispatch Channel so that non are delivered.

6.49.3.3 `virtual void activemq::core::ActiveMQSessionExecutor::close () [inline, virtual]`

Terminates the dispatching thread. Once this is called, the executor is no longer usable.

6.49.3.4 `virtual void activemq::core::ActiveMQSessionExecutor::execute (const Pointer< MessageDispatch > & data) [virtual]`

Executes the dispatch. Adds the given data to the end of the queue.

Parameters:

data - the data to be dispatched.

6.49.3.5 `virtual void activemq::core::ActiveMQSessionExecutor::executeFirst (const Pointer< MessageDispatch > & data) [virtual]`

Executes the dispatch. Adds the given data to the beginning of the queue.

Parameters:

data - the data to be dispatched.

6.49.3.6 `std::vector< Pointer<MessageDispatch> > activemq::core::ActiveMQSessionExecutor::getUnconsumedMessages ()`
[inline]

Returns:

a vector containing all the unconsumed messages, this clears the Message Dispatch Channel when called.

6.49.3.7 `virtual bool activemq::core::ActiveMQSessionExecutor::hasUnconsumedMessages ()`
`const` [inline, virtual]

Returns:

true if there are any pending messages in the dispatch channel.

6.49.3.8 `virtual bool activemq::core::ActiveMQSessionExecutor::isEmpty ()`
[inline, virtual]

Returns:

true if there are no messages in the Dispatch Channel.

6.49.3.9 `virtual bool activemq::core::ActiveMQSessionExecutor::isRunning ()` `const`
[inline, virtual]

Returns:

true indicates if the executor is started

6.49.3.10 `virtual bool activemq::core::ActiveMQSessionExecutor::iterate ()`
[virtual]

Iterates on the `MessageDispatchChannel` (p.1805) sending all pending messages to the Consumers they are destined for.

Returns:

false if there are no more messages to dispatch.

Implements `activemq::threads::Task` (p.2520).

6.49.3.11 `virtual void activemq::core::ActiveMQSessionExecutor::start ()`
[virtual]

Starts the dispatching.

6.49.3.12 `virtual void activemq::core::ActiveMQSessionExecutor::stop ()` [virtual]

Stops dispatching.

6.49.3.13 `virtual void activemq::core::ActiveMQSessionExecutor::wakeup ()`
[virtual]

wakeup this executer and dispatch any pending messages.

The documentation for this class was generated from the following file:

- `src/main/activemq/core/ActiveMQSessionExecutor.h`

6.50 activemq::commands::ActiveMQStreamMessage Class Reference

#include <src/main/activemq/commands/ActiveMQStreamMessage.h> Inheritance diagram for activemq::commands::ActiveMQStreamMessage:

Public Member Functions

- **ActiveMQStreamMessage** ()
- virtual **~ActiveMQStreamMessage** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ActiveMQStreamMessage * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual bool **isMarshalAware** () const
Determine if this object is aware of marshaling and should have its before and after marshaling methods called.
- virtual void **beforeMarshal** (**wireformat::WireFormat** *wireFormat) throw (decaf::io::IOException)
Perform any processing needed before an marshal.
- virtual **cms::StreamMessage * clone** () const
Clone this message exactly, returns a new instance that the caller is required to delete.
- virtual void **clearBody** () throw (cms::CMSEException)
Clears out the body of the message.
- virtual void **reset** () throw (cms::CMSEException)
Puts the message body in read-only mode and repositions the stream of bytes to the beginning.
- virtual bool **readBoolean** () const throw (cms::CMSEException)
Reads a Boolean from the Bytes message stream.
- virtual void **writeBoolean** (bool value) throw (cms::CMSEException)

Writes a boolean to the bytes message stream as a 1-byte value.

- virtual unsigned char **readByte** () const throw (cms::CMSEException)
Reads a Byte from the Bytes message stream.
- virtual void **writeByte** (unsigned char value) throw (cms::CMSEException)
Writes a byte to the bytes message stream as a 1-byte value.
- virtual std::size_t **readBytes** (std::vector< unsigned char > &value) const throw (cms::CMSEException)
Reads a byte array from the bytes message stream.
- virtual void **writeBytes** (const std::vector< unsigned char > &value) throw (cms::CMSEException)
Writes a byte array to the bytes message stream using the vector size as the number of bytes to write.
- virtual std::size_t **readBytes** (unsigned char *&buffer, std::size_t length) const throw (cms::CMSEException)
Reads a portion of the bytes message stream.
- virtual void **writeBytes** (const unsigned char *value, std::size_t offset, std::size_t length) throw (cms::CMSEException)
Writes a portion of a byte array to the bytes message stream.
- virtual char **readChar** () const throw (cms::CMSEException)
Reads a Char from the Bytes message stream.
- virtual void **writeChar** (char value) throw (cms::CMSEException)
Writes a char to the bytes message stream as a 1-byte value.
- virtual float **readFloat** () const throw (cms::CMSEException)
Reads a 32 bit float from the Bytes message stream.
- virtual void **writeFloat** (float value) throw (cms::CMSEException)
Writes a float to the bytes message stream as a 4 byte value.
- virtual double **readDouble** () const throw (cms::CMSEException)
Reads a 64 bit double from the Bytes message stream.
- virtual void **writeDouble** (double value) throw (cms::CMSEException)
Writes a double to the bytes message stream as a 8 byte value.
- virtual short **readShort** () const throw (cms::CMSEException)
Reads a 16 bit signed short from the Bytes message stream.
- virtual void **writeShort** (short value) throw (cms::CMSEException)
Writes a signed short to the bytes message stream as a 2 byte value.
- virtual unsigned short **readUnsignedShort** () const throw (cms::CMSEException)

Reads a 16 bit unsigned short from the Bytes message stream.

- virtual void **writeUnsignedShort** (unsigned short value) throw (cms::CMSEException)

Writes a unsigned short to the bytes message stream as a 2 byte value.

- virtual int **readInt** () const throw (cms::CMSEException)

Reads a 32 bit signed intger from the Bytes message stream.

- virtual void **writeInt** (int value) throw (cms::CMSEException)

Writes a signed int to the bytes message stream as a 4 byte value.

- virtual long long **readLong** () const throw (cms::CMSEException)

Reads a 64 bit long from the Bytes message stream.

- virtual void **writeLong** (long long value) throw (cms::CMSEException)

Writes a long long to the bytes message stream as a 8 byte value.

- virtual std::string **readString** () const throw (cms::CMSEException)

Reads an ASCII String from the Bytes message stream.

- virtual void **writeString** (const std::string &value) throw (cms::CMSEException)

Writes an ASCII String to the Bytes message stream.

Static Public Attributes

- static const unsigned char **ID_ACTIVEMQSTREAMMESSAGE** = 27

Protected Member Functions

- void **checkWriteOnlyBody** () const throw (cms::CMSEException)

Throws an exception if in write-only mode.

- util::PrimitiveList & **getList** () throw (decaf::lang::exceptions::NullPointerException)

Fetches a reference to this objects PrimitiveList, if one needs to be created or unmarshaled, this will perform the correct steps.

- const util::PrimitiveList & **getList** () const throw (decaf::lang::exceptions::NullPointerException)

- void **checkListIsUnmarshalled** () const throw (decaf::lang::exceptions::NullPointerException)

Performs the unmarshal on the List if needed, otherwise just returns.

6.50.1 Constructor & Destructor Documentation

6.50.1.1 `activemq::commands::ActiveMQStreamMessage::ActiveMQStreamMessage()`

6.50.1.2 `virtual
activemq::commands::ActiveMQStreamMessage::~~ActiveMQStreamMessage()
()` [virtual]

6.50.2 Member Function Documentation

6.50.2.1 `virtual void ac-
tivemq::commands::ActiveMQStreamMessage::beforeMarshal
(wireformat::WireFormat * wireFormat) throw (decaf::io::IOException)
[virtual]`

Perform any processing needed before an marshal.

Parameters:

wireFormat - the OpenWireFormat object in use.

Implements `activemq::wireformat::MarshalAware` (p. 1713).

6.50.2.2 `void ac-
tivemq::commands::ActiveMQStreamMessage::checkListIsUnmarshalled ()
const throw (decaf::lang::exceptions::NullPointerException) [protected]`

Performs the unmarshal on the List if needed, otherwise just returns.

6.50.2.3 `void ac-
tivemq::commands::ActiveMQStreamMessage::checkWriteOnlyBody ()
const throw (cms::CMSException) [protected]`

Throws an exception if in write-only mode.

Exceptions:

CMSException.

6.50.2.4 `virtual void activemq::commands::ActiveMQStreamMessage::clearBody ()
throw (cms::CMSException) [inline, virtual]`

Clears out the body of the message. This does not clear the headers or properties.

Reimplemented from `activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >` (p. 297).

6.50.2.5 `virtual cms::StreamMessage* ac-
tivemq::commands::ActiveMQStreamMessage::clone ()
const [inline, virtual]`

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implements **cms::Message** (p.1758).

6.50.2.6 `virtual ActiveMQStreamMessage* activemq::commands::ActiveMQStreamMessage::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::Message** (p.1741).

6.50.2.7 `virtual void activemq::commands::ActiveMQStreamMessage::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from **activemq::commands::Message** (p.1742).

6.50.2.8 `virtual bool activemq::commands::ActiveMQStreamMessage::equals (const DataStructure * value) const [virtual]`

Compares the **DataStructure** (p.1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::Message** (p.1742).

6.50.2.9 `virtual unsigned char activemq::commands::ActiveMQStreamMessage::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p.1174) type copy.

Reimplemented from **activemq::commands::Message** (p.1743).

6.50.2.10 `const util::PrimitiveList& activemq::commands::ActiveMQStreamMessage::getList () const throw (decaf::lang::exceptions::NullPointerException) [protected]`

6.50.2.11 `util::PrimitiveList& activemq::commands::ActiveMQStreamMessage::getList () throw (decaf::lang::exceptions::NullPointerException) [protected]`

Fetches a reference to this objects PrimitiveList, if one needs to be created or unmarshaled, this will perform the correct steps.

Returns:

reference to a PrimitiveList.

6.50.2.12 `virtual bool activemq::commands::ActiveMQStreamMessage::isMarshalAware () const [inline, virtual]`

Determine if this object is aware of marshaling and should have its before and after marshaling methods called. Defaults to false.

Returns:

true if aware of marshaling

Reimplemented from `activemq::commands::Message` (p. 1746).

6.50.2.13 `virtual bool activemq::commands::ActiveMQStreamMessage::readBoolean () const throw (cms::CMSException) [virtual]`

Reads a Boolean from the Bytes message stream.

Returns:

boolean value from stream

Exceptions:

CMSException

Implements `cms::StreamMessage` (p. 2478).

6.50.2.14 `virtual unsigned char activemq::commands::ActiveMQStreamMessage::readByte () const throw (cms::CMSException) [virtual]`

Reads a Byte from the Bytes message stream.

Returns:

unsigned char value from stream

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2478).

6.50.2.15 `virtual std::size_t activemq::commands::ActiveMQStreamMessage::readBytes (unsigned char *& buffer, std::size_t length) const throw (cms::CMSException)` [virtual]

Reads a portion of the bytes message stream. If the length of array value is less than the number of bytes remaining to be read from the stream, the array should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of array value, the bytes should be read into the array. The return value of the total number of bytes read will be less than the length of the array, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

If length is negative, or length is greater than the length of the array value, then an `IndexOutOfBoundsException` is thrown. No bytes will be read from the stream for this exception case.

Parameters:

buffer - the buffer into which the data is read

length - the number of bytes to read; must be less than or equal to value.length

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2479).

6.50.2.16 `virtual std::size_t activemq::commands::ActiveMQStreamMessage::readBytes (std::vector< unsigned char > & value) const throw (cms::CMSException)` [virtual]

Reads a byte array from the bytes message stream. If the length of vector value is less than the number of bytes remaining to be read from the stream, the vector should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of vector value, the bytes should be read into the vector. The return value of the total number of bytes read will be less than the length of the vector, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

Parameters:

value - buffer to place data in

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSEException if an error occurs.

Implements **cms::StreamMessage** (p. 2479).

6.50.2.17 `virtual char activemq::commands::ActiveMQStreamMessage::readChar ()
const throw (cms::CMSEException) [virtual]`

Reads a Char from the Bytes message stream.

Returns:

char value from stream

Exceptions:

CMSEException

Implements **cms::StreamMessage** (p. 2480).

6.50.2.18 `virtual double ac-
tivismq::commands::ActiveMQStreamMessage::readDouble
() const throw (cms::CMSEException) [virtual]`

Reads a 64 bit double from the Bytes message stream.

Returns:

double value from stream

Exceptions:

CMSEException

Implements **cms::StreamMessage** (p. 2480).

6.50.2.19 `virtual float activemq::commands::ActiveMQStreamMessage::readFloat
() const throw (cms::CMSEException) [virtual]`

Reads a 32 bit float from the Bytes message stream.

Returns:

double value from stream

Exceptions:

CMSEException

Implements **cms::StreamMessage** (p. 2481).

6.50.2.20 `virtual int activemq::commands::ActiveMQStreamMessage::readInt ()
const throw (cms::CMSEException) [virtual]`

Reads a 32 bit signed integer from the Bytes message stream.

Returns:

int value from stream

Exceptions:

CMSEException

Implements `cms::StreamMessage` (p. 2481).

6.50.2.21 `virtual long long ac-
tivismq::commands::ActiveMQStreamMessage::readLong ()
const throw (cms::CMSEException) [virtual]`

Reads a 64 bit long from the Bytes message stream.

Returns:

long long value from stream

Exceptions:

CMSEException

Implements `cms::StreamMessage` (p. 2482).

6.50.2.22 `virtual short activemq::commands::ActiveMQStreamMessage::readShort
() const throw (cms::CMSEException) [virtual]`

Reads a 16 bit signed short from the Bytes message stream.

Returns:

short value from stream

Exceptions:

CMSEException

Implements `cms::StreamMessage` (p. 2482).

6.50.2.23 `virtual std::string ac-
tivismq::commands::ActiveMQStreamMessage::readString
() const throw (cms::CMSEException) [virtual]`

Reads an ASCII String from the Bytes message stream.

Returns:

String from stream

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2482).

6.50.2.24 `virtual unsigned short activemq::commands::ActiveMQStreamMessage::readUnsignedShort () const throw (cms::CMSException) [virtual]`

Reads a 16 bit unsigned short from the Bytes message stream.

Returns:

unsigned short value from stream

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2483).

6.50.2.25 `virtual void activemq::commands::ActiveMQStreamMessage::reset () throw (cms::CMSException) [virtual]`

Puts the message body in read-only mode and repositions the stream of bytes to the beginning.

Exceptions:

CMSException

6.50.2.26 `virtual std::string activemq::commands::ActiveMQStreamMessage::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::Message** (p. 1749).

6.50.2.27 `virtual void activemq::commands::ActiveMQStreamMessage::writeBoolean (bool value) throw (cms::CMSException) [virtual]`

Writes a boolean to the bytes message stream as a 1-byte value. The value true is written as the value (byte)1; the value false is written as the value (byte)0.

Parameters:

value - boolean to write to the stream

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2483).

6.50.2.28 virtual void activemq::commands::ActiveMQStreamMessage::writeByte
(unsigned char *value*) throw (cms::CMSException) [virtual]

Writes a byte to the bytes message stream as a 1-byte value.

Parameters:

value - byte to write to the stream

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2483).

6.50.2.29 virtual void activemq::commands::ActiveMQStreamMessage::writeBytes
(const unsigned char * *value*, std::size_t *offset*, std::size_t *length*)
throw (cms::CMSException) [virtual]

Writes a portion of a byte array to the bytes message stream. *size* as the number of bytes to write.

Parameters:

value - bytes to write to the stream

offset - the initial offset within the byte array

length - the number of bytes to use

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2484).

6.50.2.30 virtual void activemq::commands::ActiveMQStreamMessage::writeBytes
(const std::vector< unsigned char > & *value*) throw (cms::CMSException
) [virtual]

Writes a byte array to the bytes message stream using the vector size as the number of bytes to write.

Parameters:

value - bytes to write to the stream

Exceptions:

CMSException

Implements **cms::StreamMessage** (p. 2484).

6.50.2.31 `virtual void activemq::commands::ActiveMQStreamMessage::writeChar
(char value) throw (cms::CMSException) [virtual]`

Writes a char to the bytes message stream as a 1-byte value.

Parameters:

value - char to write to the stream

Exceptions:

CMSException

Implements `cms::StreamMessage` (p. 2485).

6.50.2.32 `virtual void activemq::commands::ActiveMQStreamMessage::writeDouble
(double value) throw (cms::CMSException) [virtual]`

Writes a double to the bytes message stream as a 8 byte value.

Parameters:

value - double to write to the stream

Exceptions:

CMSException

Implements `cms::StreamMessage` (p. 2485).

6.50.2.33 `virtual void activemq::commands::ActiveMQStreamMessage::writeFloat
(float value) throw (cms::CMSException) [virtual]`

Writes a float to the bytes message stream as a 4 byte value.

Parameters:

value - float to write to the stream

Exceptions:

CMSException

Implements `cms::StreamMessage` (p. 2485).

6.50.2.34 `virtual void activemq::commands::ActiveMQStreamMessage::writeInt
(int value) throw (cms::CMSException) [virtual]`

Writes a signed int to the bytes message stream as a 4 byte value.

Parameters:

value - signed int to write to the stream

Exceptions:

CMSException

Implements `cms::StreamMessage` (p. 2486).

6.50.2.35 virtual void activemq::commands::ActiveMQStreamMessage::writeLong
(long long *value*) throw (cms::CMSEException) [virtual]

Writes a long long to the bytes message stream as a 8 byte value.

Parameters:

value - signed long long to write to the stream

Exceptions:

CMSEException

Implements cms::StreamMessage (p. 2486).

6.50.2.36 virtual void activemq::commands::ActiveMQStreamMessage::writeShort
(short *value*) throw (cms::CMSEException) [virtual]

Writes a signed short to the bytes message stream as a 2 byte value.

Parameters:

value - signed short to write to the stream

Exceptions:

CMSEException

Implements cms::StreamMessage (p. 2486).

6.50.2.37 virtual void activemq::commands::ActiveMQStreamMessage::writeString
(const std::string & *value*) throw (cms::CMSEException) [virtual]

Writes an ASCII String to the Bytes message stream.

Parameters:

value - String to write to the stream

Exceptions:

CMSEException

Implements cms::StreamMessage (p. 2487).

6.50.2.38 virtual void ac-
tivemq::commands::ActiveMQStreamMessage::writeUnsignedShort
(unsigned short *value*) throw (cms::CMSEException) [virtual]

Writes a unsigned short to the bytes message stream as a 2 byte value.

Parameters:

value - unsigned short to write to the stream

Exceptions:

CMSException

Implements `cms::StreamMessage` (p. 2487).

6.50.3 Field Documentation

6.50.3.1 `const unsigned char activemq::commands::ActiveMQStreamMessage::ID_ - ACTIVEMQSTREAMMESSAGE = 27` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQStreamMessage.h`

6.51

`activemq:wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller`

Class Reference

~~6.51~~ `activemq:wireformat::openwire::marshal::v3::ActiveMQStreamMes` ³⁸⁷

Class Reference

Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 387).

```
#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQStreamMessageMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller:
```

Public Member Functions

- **ActiveMQStreamMessageMarshaller** ()
- virtual **~ActiveMQStreamMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.51.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 387).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.51.2 Constructor & Destructor Documentation

6.51.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::ActiveMQStreamMessageMarshaller()` [inline]

6.51.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::~ActiveMQStreamMessageMarshaller()` [inline, virtual]

6.51.3 Member Function Documentation

6.51.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.51.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.51.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::marshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.51

activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller

Class Reference

389

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1867).

6.51.3.4 virtual void ac-

```
timemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::looseUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn) throw (
    decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1867).

6.51.3.5 virtual int ac-

```
timemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::tightMarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException )
[virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1868).

6.51.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

6.51.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQStreamMessageMarshaller.h`

Class Reference

Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 391).

```
#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQStreamMessageMarshaller.h>
Inheritance diagram for activemq:wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller:
```

Public Member Functions

- **ActiveMQStreamMessageMarshaller** ()
- virtual **~ActiveMQStreamMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.52.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 391).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.52.2 Constructor & Destructor Documentation

6.52.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::ActiveMQStreamMessageMarshaller()` [inline]

6.52.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::~~ActiveMQStreamMessageMarshaller()` [inline, virtual]

6.52.3 Member Function Documentation

6.52.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.52.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.52.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::marshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.52

activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller

Class Reference

393

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1872).

6.52.3.4 virtual void ac-

```
tivemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::looseUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn) throw (
    decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1872).

6.52.3.5 virtual int ac-

```
tivemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::tightMarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException )
[virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1873).

6.52.3.6 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

6.52.3.7 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQStreamMessageMarshaller.h`

Class Reference

Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 395).

```
#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQStreamMessageMarshaller.h>
Inheritance diagram for activemq:wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller:
```

Public Member Functions

- **ActiveMQStreamMessageMarshaller** ()
- virtual **~ActiveMQStreamMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.53.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 395).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.53.2 Constructor & Destructor Documentation

6.53.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::ActiveMQStreamMessageMarshaller()` [inline]

6.53.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::~ActiveMQStreamMessageMarshaller()` [inline, virtual]

6.53.3 Member Function Documentation

6.53.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.53.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.53.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::marshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.53

activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller

Class Reference

397

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1862).

6.53.3.4 virtual void ac-

```
ativemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::looseUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn) throw (
    decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1862).

6.53.3.5 virtual int ac-

```
ativemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::tightMarshal(
    OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException )
[virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1863).

6.53.3.6 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

6.53.3.7 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQStreamMessageMarshaller.h`

6.54 activemq::commands::ActiveMQTempDestination Class Reference

#include <src/main/activemq/commands/ActiveMQTempDestination.h> Inheritance diagram for activemq::commands::ActiveMQTempDestination:

Public Member Functions

- **ActiveMQTempDestination** ()
- **ActiveMQTempDestination** (const std::string &name)
- virtual ~**ActiveMQTempDestination** ()
- virtual unsigned char **getDataStructureType** () const
*Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.*
- virtual **ActiveMQTempDestination** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual void **close** () throw (cms::CMSException)
Closes down this Destination resulting in a call to dispose of the TempDestination resource at the Broker.
- void **setConnection** (core::ActiveMQConnection *connection)
Sets the Parent Connection that is notified when this destination is destroyed.

Static Public Attributes

- static const unsigned char **ID_ACTIVEMQTEMPDESTINATION** = 0

Protected Attributes

- core::ActiveMQConnection * **connection**
Connection that we call back on close to allow this resource to be cleaned up correctly at this end and at the Broker End.

6.54.1 Constructor & Destructor Documentation

- 6.54.1.1** `activemq::commands::ActiveMQTempDestination::ActiveMQTempDestination()`
- 6.54.1.2** `activemq::commands::ActiveMQTempDestination::ActiveMQTempDestination(const std::string & name)`
- 6.54.1.3** `virtual activemq::commands::ActiveMQTempDestination::~~ActiveMQTempDestination()` [virtual]

6.54.2 Member Function Documentation

- 6.54.2.1** `virtual ActiveMQTempDestination* activemq::commands::ActiveMQTempDestination::cloneDataStructure()` `const` [inline, virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::ActiveMQDestination` (p. 231).

Reimplemented in `activemq::commands::ActiveMQTempQueue` (p. 416), and `activemq::commands::ActiveMQTempTopic` (p. 433).

- 6.54.2.2** `virtual void activemq::commands::ActiveMQTempDestination::close()` `throw (cms::CMSException)` [virtual]

Closes down this Destination resulting in a call to dispose of the TempDestination resource at the Broker. This should only be called when the user is certain that they are finished with this destination. The TempDestination is not closed automatically on shutdown. throws `cms::CMSException` (p. 850)

Implements `cms::Closeable` (p. 838).

- 6.54.2.3** `virtual void activemq::commands::ActiveMQTempDestination::copyDataStructure(const DataStructure * src)` [inline, virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::ActiveMQDestination` (p. 232).

Reimplemented in `activemq::commands::ActiveMQTempQueue` (p. 417), and `activemq::commands::ActiveMQTempTopic` (p. 434).

References `activemq::commands::ActiveMQDestination::copyDataStructure()`.

6.54.2.4 virtual bool activemq::commands::ActiveMQTempDestination::equals (const DataStructure * *value*) const [inline, virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

Reimplemented in **activemq::commands::ActiveMQTempQueue** (p. 417), and **activemq::commands::ActiveMQTempTopic** (p. 434).

References **activemq::commands::ActiveMQDestination::equals()**.

6.54.2.5 virtual unsigned char activemq::commands::ActiveMQTempDestination::getDataStructureType () const [virtual]

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

Reimplemented in **activemq::commands::ActiveMQTempQueue** (p. 418), and **activemq::commands::ActiveMQTempTopic** (p. 435).

6.54.2.6 void activemq::commands::ActiveMQTempDestination::setConnection (core::ActiveMQConnection * *connection*) [inline]

Sets the Parent Connection that is notified when this destination is destroyed.

Parameters:

connection - The parent connection.

6.54.2.7 virtual std::string activemq::commands::ActiveMQTempDestination::toString () const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 237).

Reimplemented in **activemq::commands::ActiveMQTempQueue** (p. 418), and **activemq::commands::ActiveMQTempTopic** (p. 435).

6.54.3 Field Documentation

6.54.3.1 `core::ActiveMQConnection* activemq::commands::ActiveMQTempDestination::connection`
[protected]

Connection that we call back on close to allow this resource to be cleaned up correctly at this end and at the Broker End.

6.54.3.2 `const unsigned char activemq::commands::ActiveMQTempDestination::ID - ACTIVEMQTEMPDESTINATION = 0` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQTempDestination.h`

Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 403).

```
#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempDestinationMarshaller.h>
diagram for activemq:wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller:
```

Public Member Functions

- **ActiveMQTempDestinationMarshaller** ()
- virtual **~ActiveMQTempDestinationMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.55.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 403).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.55.2 Constructor & Destructor Documentation

6.55.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller::ActiveMQTempDestinationMarshaller()` [inline]

6.55.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller::~ActiveMQTempDestinationMarshaller()` [inline, virtual]

6.55.3 Member Function Documentation

6.55.3.1 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller::marshal(const OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller` (p. 241).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller` (p. 421), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller` (p. 438).

6.55.3.2 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller::unmarshal(const OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataIn* - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the `unmarshal`.

6.55

activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller

Class Reference

405

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 241).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller** (p. 422), and **activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller** (p. 439).

```
6.55.3.3  virtual int ac-
          tivemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller::tightMa
          (OpenWireFormat * wireFormat,  commands::DataStructure *
          dataStructure,  utils::BooleanStream * bs) throw ( decaf::io::IOException )
          [virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 242).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller** (p. 422), and **activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller** (p. 439).

```
6.55.3.4  virtual void ac-
          tivemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller::tightMa
          (OpenWireFormat * wireFormat,  commands::DataStructure
          * dataStructure,  decaf::io::DataOutputStream * dataOut,
          utils::BooleanStream * bs) throw ( decaf::io::IOException )  [virtual]
```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller` (p. 242).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller` (p. 423), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller` (p. 440).

6.55.3.5 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

- IOException* if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller` (p. 243).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller` (p. 423), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller` (p. 440).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempDestinationMarshaller.h`

Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 407).

```
#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempDestinationMarshaller.h>
diagram for activemq:wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller:
```

Public Member Functions

- **ActiveMQTempDestinationMarshaller** ()
- virtual **~ActiveMQTempDestinationMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

6.56.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 407).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.56.2 Constructor & Destructor Documentation

6.56.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller::ActiveMQTempDestinationMarshaller()` [inline]

6.56.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller::~ActiveMQTempDestinationMarshaller()` [inline, virtual]

6.56.3 Member Function Documentation

6.56.3.1 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller::marshal(const OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 245).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 425), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 442).

6.56.3.2 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller::unmarshal(const OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataIn* - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the `unmarshal`.

6.56

activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller

Class Reference

409

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 245).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller** (p. 426), and **activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller** (p. 443).

6.56.3.3 virtual int ac-
tivemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller::tightMa
(OpenWireFormat * *wireFormat*, commands::DataStructure *
***dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException)**
[virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 246).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller** (p. 426), and **activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller** (p. 443).

6.56.3.4 virtual void ac-
tivemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller::tightMa
(OpenWireFormat * *wireFormat*, commands::DataStructure
*** *dataStructure*, decaf::io::DataOutputStream * *dataOut*,**
utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 246).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 427), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 444).

6.56.3.5 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

- IOException* if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 247).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 427), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 444).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempDestinationMarshaller.h`

6.57

activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller

Class Reference

6.57 ~~activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller~~⁴¹¹

Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 411).

```
#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempDestinationMarshaller.h>
diagram for activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller:
```

Public Member Functions

- **ActiveMQTempDestinationMarshaller** ()
- virtual **~ActiveMQTempDestinationMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.57.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 411).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.57.2 Constructor & Destructor Documentation

6.57.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller::ActiveMQTempDestinationMarshaller()` [inline]

6.57.2.2 `virtual ~ActiveMQTempDestinationMarshaller()` [inline, virtual]

6.57.3 Member Function Documentation

6.57.3.1 `virtual void activate(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller` (p. 249).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller` (p. 429), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller` (p. 446).

6.57.3.2 `virtual void deactivate(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the `unmarshal`.

6.57

activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller

Class Reference

413

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 249).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller** (p. 430), and **activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller** (p. 447).

6.57.3.3 virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller::tightMarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException)
[virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 250).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller** (p. 430), and **activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller** (p. 447).

6.57.3.4 virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller::tightMarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller` (p. 250).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller` (p. 431), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller` (p. 448).

6.57.3.5 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

- IOException* if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller` (p. 251).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller` (p. 431), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller` (p. 448).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempDestinationMarshaller.h`

6.58 activemq::commands::ActiveMQTempQueue Class Reference

#include <src/main/activemq/commands/ActiveMQTempQueue.h> Inheritance diagram for activemq::commands::ActiveMQTempQueue:

Public Member Functions

- **ActiveMQTempQueue** ()
- **ActiveMQTempQueue** (const std::string &name)
- virtual ~**ActiveMQTempQueue** ()
- virtual unsigned char **getDataStructureType** () const
*Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.*
- virtual **ActiveMQTempQueue** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
Converts the Destination Name into a String.
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **cms::Destination** * **getCMSDestination** () const
- virtual **cms::Destination::DestinationType** **getDestinationType** () const
Retrieve the Destination Type for this Destination.
- virtual **cms::Destination** * **clone** () const
Creates a new instance of this destination type that is a copy of this one, and returns it.
- virtual void **copy** (const **cms::Destination** &source)
Copies the contents of the given Destinastion object to this one.
- virtual const **cms::CMSProperties** & **getCMSProperties** () const
Retrieve any properties that might be part of the destination that was specified.
- virtual std::string **getQueueName** () const throw (cms::CMSException)
Gets the name of this queue.
- virtual void **destroy** () throw (cms::CMSException)
Destroy's the Temp Destination at the Broker.

Static Public Attributes

- static const unsigned char **ID _ACTIVEMQTEMPQUEUE** = 102

6.58.1 Constructor & Destructor Documentation

6.58.1.1 `activemq::commands::ActiveMQTempQueue::ActiveMQTempQueue ()`

6.58.1.2 `activemq::commands::ActiveMQTempQueue::ActiveMQTempQueue (const std::string & name)`

6.58.1.3 `virtual
activemq::commands::ActiveMQTempQueue::~~ActiveMQTempQueue ()
[virtual]`

6.58.2 Member Function Documentation

6.58.2.1 `virtual cms::Destination* ac-
tivemq::commands::ActiveMQTempQueue::clone () const
[inline, virtual]`

Creates a new instance of this destination type that is a copy of this one, and returns it.

Returns:

cloned copy of this object

Implements **cms::Destination** (p. 1191).

6.58.2.2 `virtual ActiveMQTempQueue* ac-
tivemq::commands::ActiveMQTempQueue::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::ActiveMQTempDestination** (p. 400).

6.58.2.3 `virtual void activemq::commands::ActiveMQTempQueue::copy (const
cms::Destination & source) [inline, virtual]`

Copies the contents of the given Destination object to this one.

Parameters:

source The source Destination object.

6.58.2.4 `virtual void activemq::commands::ActiveMQTempQueue::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::ActiveMQTempDestination` (p. 400).

6.58.2.5 `virtual void activemq::commands::ActiveMQTempQueue::destroy () throw (cms::CMSException) [inline, virtual]`

Destroy's the Temp Destination at the Broker.

Exceptions:

CMSException

Implements `cms::TemporaryQueue` (p. 2538).

References AMQ_CATCH_ALL_THROW_CMSEXCEPTION.

6.58.2.6 `virtual bool activemq::commands::ActiveMQTempQueue::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::ActiveMQTempDestination` (p. 401).

6.58.2.7 `virtual const cms::Destination* activemq::commands::ActiveMQTempQueue::getCMSDestination () const [inline, virtual]`

Returns:

the `cms::Destination` (p. 1190) interface pointer that the objects that derive from this class implement.

Reimplemented from `activemq::commands::ActiveMQDestination` (p. 233).

6.58.2.8 `virtual const cms::CMSPProperties& activemq::commands::ActiveMQTempQueue::getCMSPProperties () const [inline, virtual]`

Retrieve any properties that might be part of the destination that was specified. This is a deviation from the JMS spec but necessary due to C++ restrictions.

Returns:

const reference to a properties object.

Implements **cms::Destination** (p. 1191).

6.58.2.9 `virtual unsigned char activemq::commands::ActiveMQTempQueue::getDataStructureType () const [virtual]`

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Reimplemented from **activemq::commands::ActiveMQTempDestination** (p. 401).

6.58.2.10 `virtual cms::Destination::DestinationType activemq::commands::ActiveMQTempQueue::getDestinationType () const [inline, virtual]`

Retrieve the Destination Type for this Destination.

Returns:

The Destination Type

Implements **activemq::commands::ActiveMQDestination** (p. 234).

References cms::Destination::TEMPORARY_QUEUE.

6.58.2.11 `virtual std::string activemq::commands::ActiveMQTempQueue::getQueueName () const throw (cms::CMSException) [inline, virtual]`

Gets the name of this queue.

Returns:

The queue name.

Implements **cms::TemporaryQueue** (p. 2539).

6.58.2.12 `virtual std::string activemq::commands::ActiveMQTempQueue::toString () const [virtual]`

Converts the Destination Name into a String.

Returns:

string name

Reimplemented from **activemq::commands::ActiveMQTempDestination** (p. 401).

6.58.3 Field Documentation

6.58.3.1 `const unsigned char activemq::commands::ActiveMQTempQueue::ID_ - ACTIVEMQTEMPQUEUE = 102` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQTempQueue.h`

6.59 activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 420).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempQueueMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller:

Public Member Functions

- **ActiveMQTempQueueMarshaller** ()
- virtual **~ActiveMQTempQueueMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.59.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 420).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.59.2 Constructor & Destructor Documentation

6.59.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::ActiveMQTempQueueMarshaller()` [inline]

6.59.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::~~ActiveMQTempQueueMarshaller()` [inline, virtual]

6.59.3 Member Function Documentation

6.59.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.59.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.59.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller` (p. 404).

6.59.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller` (p. 404).

6.59.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller` (p. 405).

6.59.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 405).

6.59.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 406).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempQueueMarshaller.h`

6.60 activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 424).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempQueueMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller:

Public Member Functions

- **ActiveMQTempQueueMarshaller** ()
- virtual **~ActiveMQTempQueueMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.60.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 424).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.60.2 Constructor & Destructor Documentation

6.60.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::ActiveMQTempQueueMarshaller()` `[inline]`

6.60.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::~~ActiveMQTempQueueMarshaller()` `[inline, virtual]`

6.60.3 Member Function Documentation

6.60.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.60.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.60.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 408).

6.60.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 408).

6.60.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 409).

6.60.3.6 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller** (p. 409).

6.60.3.7 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller** (p. 410).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempQueueMarshaller.h`

6.61 activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 428).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempQueueMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller:

Public Member Functions

- **ActiveMQTempQueueMarshaller** ()
- virtual **~ActiveMQTempQueueMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.61.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 428).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.61.2 Constructor & Destructor Documentation

6.61.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::ActiveMQTempQueueMarshaller()` [inline]

6.61.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::~~ActiveMQTempQueueMarshaller()` [inline, virtual]

6.61.3 Member Function Documentation

6.61.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.61.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.61.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller` (p. 412).

6.61.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller` (p. 412).

6.61.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller` (p. 413).

6.61.3.6 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 413).

6.61.3.7 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller::tightUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 414).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ActiveMQTempQueueMarshaller.h**

6.62 activemq::commands::ActiveMQTempTopic Class Reference

#include <src/main/activemq/commands/ActiveMQTempTopic.h> Inheritance diagram for activemq::commands::ActiveMQTempTopic:

Public Member Functions

- **ActiveMQTempTopic** ()
- **ActiveMQTempTopic** (const std::string &name)
- virtual ~**ActiveMQTempTopic** ()
- virtual unsigned char **getDataStructureType** () const
*Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.*
- virtual **ActiveMQTempTopic** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
Converts the Destination Name into a String.
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **cms::Destination** * **getCMSDestination** () const
- virtual **cms::Destination::DestinationType** **getDestinationType** () const
Retrieve the Destination Type for this Destination.
- virtual **cms::Destination** * **clone** () const
Creates a new instance of this destination type that is a copy of this one, and returns it.
- virtual void **copy** (const **cms::Destination** &source)
Copies the contents of the given Destinastion object to this one.
- virtual const **cms::CMSProperties** & **getCMSProperties** () const
Retrieve any properties that might be part of the destination that was specified.
- virtual std::string **getTopicName** () const throw (cms::CMSException)
Gets the name of this topic.
- virtual void **destroy** () throw (cms::CMSException)
Destroy's the Temp Destination at the Broker.

Static Public Attributes

- static const unsigned char **ID_**ACTIVEMQTEMPTOPIC = 103

6.62.1 Constructor & Destructor Documentation

6.62.1.1 `activemq::commands::ActiveMQTempTopic::ActiveMQTempTopic ()`

6.62.1.2 `activemq::commands::ActiveMQTempTopic::ActiveMQTempTopic (const std::string & name)`

6.62.1.3 `virtual
activemq::commands::ActiveMQTempTopic::~~ActiveMQTempTopic ()
[virtual]`

6.62.2 Member Function Documentation

6.62.2.1 `virtual cms::Destination* ac-
tivemq::commands::ActiveMQTempTopic::clone () const
[inline, virtual]`

Creates a new instance of this destination type that is a copy of this one, and returns it.

Returns:

cloned copy of this object

Implements **cms::Destination** (p. 1191).

6.62.2.2 `virtual ActiveMQTempTopic* ac-
tivemq::commands::ActiveMQTempTopic::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::ActiveMQTempDestination** (p. 400).

6.62.2.3 `virtual void activemq::commands::ActiveMQTempTopic::copy (const cms::Destination & source) [inline, virtual]`

Copies the contents of the given Destination object to this one.

Parameters:

source The source Destination object.

6.62.2.4 `virtual void activemq::commands::ActiveMQTempTopic::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::ActiveMQTempDestination` (p. 400).

6.62.2.5 `virtual void activemq::commands::ActiveMQTempTopic::destroy () throw (cms::CMSException) [inline, virtual]`

Destroy's the Temp Destination at the Broker.

Exceptions:

CMSException

Implements `cms::TemporaryTopic` (p. 2540).

References AMQ_CATCH_ALL_THROW_CMSEXCEPTION.

6.62.2.6 `virtual bool activemq::commands::ActiveMQTempTopic::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::ActiveMQTempDestination` (p. 401).

6.62.2.7 `virtual const cms::Destination* activemq::commands::ActiveMQTempTopic::getCMSDestination () const [inline, virtual]`

Returns:

the `cms::Destination` (p. 1190) interface pointer that the objects that derive from this class implement.

Reimplemented from `activemq::commands::ActiveMQDestination` (p. 233).

6.62.2.8 `virtual const cms::CMSPProperties& activemq::commands::ActiveMQTempTopic::getCMSPProperties () const [inline, virtual]`

Retrieve any properties that might be part of the destination that was specified. This is a deviation from the JMS spec but necessary due to C++ restrictions.

Returns:

const reference to a properties object.

Implements **cms::Destination** (p. 1191).

6.62.2.9 `virtual unsigned char activemq::commands::ActiveMQTempTopic::getDataStructureType () const [virtual]`

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Reimplemented from **activemq::commands::ActiveMQTempDestination** (p. 401).

6.62.2.10 `virtual cms::Destination::DestinationType activemq::commands::ActiveMQTempTopic::getDestinationType () const [inline, virtual]`

Retrieve the Destination Type for this Destination.

Returns:

The Destination Type

Implements **activemq::commands::ActiveMQDestination** (p. 234).

References cms::Destination::TEMPORARY_TOPIC.

6.62.2.11 `virtual std::string activemq::commands::ActiveMQTempTopic::getTopicName () const throw (cms::CMSException) [inline, virtual]`

Gets the name of this topic.

Returns:

The topic name.

Implements **cms::TemporaryTopic** (p. 2541).

6.62.2.12 `virtual std::string activemq::commands::ActiveMQTempTopic::toString () const [virtual]`

Converts the Destination Name into a String.

Returns:

string name

Reimplemented from **activemq::commands::ActiveMQTempDestination** (p. 401).

6.62.3 Field Documentation

6.62.3.1 `const unsigned char activemq::commands::ActiveMQTempTopic::ID - ACTIVEMQTEMPTOPIC = 103` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQTempTopic.h`

6.63 activemq:wireformat::openwire::marshal:v3::ActiveMQTempTopic Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 437).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempTopicMarshaller.h> Inheritance diagram for activemq:wireformat::openwire::marshal:v3::ActiveMQTempTopicMarshaller:

Public Member Functions

- **ActiveMQTempTopicMarshaller** ()
- virtual **~ActiveMQTempTopicMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.63.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 437). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.63.2 Constructor & Destructor Documentation

6.63.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::ActiveMQTempTopicMarshaller()` [inline]

6.63.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::~~ActiveMQTempTopicMarshaller()` [inline, virtual]

6.63.3 Member Function Documentation

6.63.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.63.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.63.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 404).

6.63.3.4 virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::looseUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 404).

6.63.3.5 virtual int activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::tightMarshal1 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 405).

6.63.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 405).

6.63.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller** (p. 406).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempTopicMarshaller.h`

6.64 activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopic Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 441).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempTopicMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller:

Public Member Functions

- **ActiveMQTempTopicMarshaller** ()
- virtual **~ActiveMQTempTopicMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.64.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 441). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.64.2 Constructor & Destructor Documentation

6.64.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::ActiveMQTempTopicMarshaller()` [inline]

6.64.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::~~ActiveMQTempTopicMarshaller()` [inline, virtual]

6.64.3 Member Function Documentation

6.64.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.64.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.64.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 408).

6.64.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 408).

6.64.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 409).

```

6.64.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::tightMarshal2
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller** (p. 409).

```

6.64.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller::tightUnmarshal
    (OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
    * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller** (p. 410).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ActiveMQTempTopicMarshaller.h**

6.65 activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopic Class Reference

Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 445).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempTopicMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller:

Public Member Functions

- **ActiveMQTempTopicMarshaller** ()
- virtual **~ActiveMQTempTopicMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.65.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 445). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.65.2 Constructor & Destructor Documentation

6.65.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::ActiveMQTempTopicMarshaller()` [inline]

6.65.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::~~ActiveMQTempTopicMarshaller()` [inline, virtual]

6.65.3 Member Function Documentation

6.65.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.65.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.65.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 412).

6.65.3.4 virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::looseUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 412).

6.65.3.5 virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::tightMarshal1 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 413).

```

6.65.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::tightMarshal2
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 413).

```

6.65.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller::tightUnmarshal
    (OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
    * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller** (p. 414).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempTopicMarshaller.h`

6.66 activemq::commands::ActiveMQTextMessage Class Reference

#include <src/main/activemq/commands/ActiveMQTextMessage.h> Inheritance diagram for activemq::commands::ActiveMQTextMessage:

Public Member Functions

- **ActiveMQTextMessage** ()
- virtual **~ActiveMQTextMessage** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaller share.
- virtual **ActiveMQTextMessage * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual **cms::TextMessage * clone** () const
Clone this message exactly, returns a new instance that the caller is required to delete.
- virtual std::string **getText** () const throw (cms::CMSException)
Gets the message character buffer.
- virtual void **setText** (const char *msg) throw (cms::CMSException)
Sets the message contents, does not take ownership of the passed char, but copies it instead.*
- virtual void **setText** (const std::string &msg) throw (cms::CMSException)
Sets the message contents.

Static Public Attributes

- static const unsigned char **ID _ACTIVEMQTEXTMESSAGE** = 28

6.66.1 Constructor & Destructor Documentation

6.66.1.1 `activemq::commands::ActiveMQTextMessage::ActiveMQTextMessage ()`

6.66.1.2 `virtual
activemq::commands::ActiveMQTextMessage::~~ActiveMQTextMessage ()
[virtual]`

6.66.2 Member Function Documentation

6.66.2.1 `virtual cms::TextMessage* ac-
tivemq::commands::ActiveMQTextMessage::clone () const
[inline, virtual]`

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implements `cms::Message` (p.1758).

6.66.2.2 `virtual ActiveMQTextMessage* ac-
tivemq::commands::ActiveMQTextMessage::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::Message` (p.1741).

6.66.2.3 `virtual void ac-
tivemq::commands::ActiveMQTextMessage::copyDataStructure (const
DataStructure * src) [virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::Message` (p.1742).

6.66.2.4 `virtual bool activemq::commands::ActiveMQTextMessage::equals (const
DataStructure * value) const [virtual]`

Compares the `DataStructure` (p.1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::Message` (p. 1742).

6.66.2.5 `virtual unsigned char activemq::commands::ActiveMQTextMessage::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new `DataStructure` (p. 1174) type copy.

Reimplemented from `activemq::commands::Message` (p. 1743).

6.66.2.6 `virtual std::string activemq::commands::ActiveMQTextMessage::getText () const throw (cms::CMSEException) [virtual]`

Gets the message character buffer.

Returns:

The message character buffer.

Implements `cms::TextMessage` (p. 2542).

6.66.2.7 `virtual void activemq::commands::ActiveMQTextMessage::setText (const std::string & msg) throw (cms::CMSEException) [virtual]`

Sets the message contents.

Parameters:

msg The message buffer.

Implements `cms::TextMessage` (p. 2543).

6.66.2.8 `virtual void activemq::commands::ActiveMQTextMessage::setText (const char * msg) throw (cms::CMSEException) [virtual]`

Sets the message contents, does not take ownership of the passed char*, but copies it instead.

Parameters:

msg The message buffer.

Implements `cms::TextMessage` (p. 2543).

6.66.2.9 `virtual std::string activemq::commands::ActiveMQTextMessage::toString()` `const` `[virtual]`

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::Message` (p.1749).

6.66.3 Field Documentation

6.66.3.1 `const unsigned char activemq::commands::ActiveMQTextMessage::ID_ - ACTIVEMQTEXTMESSAGE = 28` `[static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQTextMessage.h`

6.67 activemq:wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 453).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTextMessageMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller:

Public Member Functions

- **ActiveMQTextMessageMarshaller** ()
- virtual **~ActiveMQTextMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.67.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 453).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.67.2 Constructor & Destructor Documentation

6.67.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::ActiveMQTextMessageMarshaller()` [inline]

6.67.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::~~ActiveMQTextMessageMarshaller()` [inline, virtual]

6.67.3 Member Function Documentation

6.67.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::createObject(const commands::DataStructure& dataStructure) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.67.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.67.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::looseMarshal(const commands::DataStructure& dataStructure, decaf::io::DataOutputStream& dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.67.3.4 virtual void ac-
`tivemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867).

6.67.3.5 virtual int ac-
`tivemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1868).

6.67.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

6.67.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::MessageMarshaller** (p. 1869).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTextMessageMarshaller.h`

6.68 activemq:wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 457).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTextMessageMarshaller.h>Inheritance
 diagram for activemq:wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller:

Public Member Functions

- **ActiveMQTextMessageMarshaller** ()
- virtual **~ActiveMQTextMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.68.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 457).
 NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.68.2 Constructor & Destructor Documentation

6.68.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::ActiveMQTextMessageMarshaller()` [inline]

6.68.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::~~ActiveMQTextMessageMarshaller()` [inline, virtual]

6.68.3 Member Function Documentation

6.68.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.68.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.68.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::looseMarshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.68.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872).

6.68.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1873).

6.68.3.6 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

6.68.3.7 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1874).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTextMessageMarshaller.h`

6.69 activemq:wireformat::openwire::marshal:v2::ActiveMQTextMessageMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 461).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTextMessageMarshaller.h> Inheritance diagram for activemq:wireformat::openwire::marshal:v2::ActiveMQTextMessageMarshaller:

Public Member Functions

- **ActiveMQTextMessageMarshaller** ()
- virtual **~ActiveMQTextMessageMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.69.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 461).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.69.2 Constructor & Destructor Documentation

6.69.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::ActiveMQTextMessageMarshaller()` [inline]

6.69.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::~~ActiveMQTextMessageMarshaller()` [inline, virtual]

6.69.3 Member Function Documentation

6.69.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::createObject(const commands::DataStructure& dataStructure) const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.69.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.69.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::looseMarshal(const commands::DataStructure& dataStructure, const OpenWireFormat& wireFormat, decaf::io::DataOutputStream& dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.69.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862).

6.69.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1863).

6.69.3.6 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

6.69.3.7 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1864).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTextMessageMarshaller.h`

6.70 activemq::commands::ActiveMQTopic Class Reference

#include <src/main/activemq/commands/ActiveMQTopic.h> Inheritance diagram for activemq::commands::ActiveMQTopic:

Public Member Functions

- **ActiveMQTopic** ()
- **ActiveMQTopic** (const std::string &name)
- virtual ~**ActiveMQTopic** ()
- virtual unsigned char **getDataStructureType** () const
*Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.*
- virtual **ActiveMQTopic** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const cms::Destination * **getCMSDestination** () const
- virtual cms::Destination::DestinationType **getDestinationType** () const
Retrieve the Destination Type for this Destination.
- virtual cms::Destination * **clone** () const
Creates a new instance of this destination type that is a copy of this one, and returns it.
- virtual void **copy** (const cms::Destination &source)
Copies the contents of the given Destination object to this one.
- virtual const cms::CMSProperties & **getCMSProperties** () const
Retrieve any properties that might be part of the destination that was specified.
- virtual std::string **getTopicName** () const throw (cms::CMSException)
Gets the name of this topic.

Static Public Attributes

- static const unsigned char **ID _ACTIVEMQTOPIC** = 101

6.70.1 Constructor & Destructor Documentation

6.70.1.1 `activemq::commands::ActiveMQTopic::ActiveMQTopic ()`

6.70.1.2 `activemq::commands::ActiveMQTopic::ActiveMQTopic (const std::string & name)`

6.70.1.3 `virtual activemq::commands::ActiveMQTopic::~~ActiveMQTopic ()`
[virtual]

6.70.2 Member Function Documentation

6.70.2.1 `virtual cms::Destination* activemq::commands::ActiveMQTopic::clone ()`
`const` [inline, virtual]

Creates a new instance of this destination type that is a copy of this one, and returns it.

Returns:

cloned copy of this object

Implements **cms::Destination** (p.1191).

6.70.2.2 `virtual ActiveMQTopic* activemq::commands::ActiveMQTopic::cloneDataStructure ()`
`const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::ActiveMQDestination** (p.231).

6.70.2.3 `virtual void activemq::commands::ActiveMQTopic::copy (const cms::Destination & source)` [inline, virtual]

Copies the contents of the given Destination object to this one.

Parameters:

source The source Destination object.

6.70.2.4 `virtual void activemq::commands::ActiveMQTopic::copyDataStructure (const DataStructure * src)` [virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from **activemq::commands::ActiveMQDestination** (p.232).

6.70.2.5 virtual bool activemq::commands::ActiveMQTopic::equals (const DataStructure * *value*) const [inline, virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

References **activemq::commands::ActiveMQDestination::equals()**.

6.70.2.6 virtual const cms::Destination* activemq::commands::ActiveMQTopic::getCMSDestination () const [inline, virtual]

Returns:

the **cms::Destination** (p. 1190) interface pointer that the objects that derive from this class implement.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

6.70.2.7 virtual const cms::CMSProperties& activemq::commands::ActiveMQTopic::getCMSProperties () const [inline, virtual]

Retrieve any properties that might be part of the destination that was specified. This is a deviation from the JMS spec but necessary due to C++ restrictions.

Returns:

const reference to a properties object.

Implements **cms::Destination** (p. 1191).

6.70.2.8 virtual unsigned char activemq::commands::ActiveMQTopic::getDataStructureType () const [virtual]

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 233).

6.70.2.9 virtual cms::Destination::DestinationType activemq::commands::ActiveMQTopic::getDestinationType () const [inline, virtual]

Retrieve the Destination Type for this Destination.

Returns:

The Destination Type

Implements **activemq::commands::ActiveMQDestination** (p. 234).

References **cms::Destination::TOPIC**.

6.70.2.10 `virtual std::string activemq::commands::ActiveMQTopic::getTopicName
() const throw (cms::CMSException) [inline, virtual]`

Gets the name of this topic.

Returns:

The topic name.

Implements **cms::Topic** (p. 2571).

6.70.2.11 `virtual std::string activemq::commands::ActiveMQTopic::toString ()
const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::ActiveMQDestination** (p. 237).

6.70.3 Field Documentation

6.70.3.1 `const unsigned char activemq::commands::ActiveMQTopic::ID_-
ACTIVEMQTOPIC = 101 [static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ActiveMQTopic.h`

6.71 activemq:wireformat::openwire::marshal:v3::ActiveMQTopicMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 469).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTopicMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal:v3::ActiveMQTopicMarshaller:

Public Member Functions

- **ActiveMQTopicMarshaller** ()
- virtual **~ActiveMQTopicMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.71.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 469). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.71.2 Constructor & Destructor Documentation

6.71.2.1 `activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::ActiveMQTopicMarshaller()` [inline]

6.71.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::~~ActiveMQTopicMarshaller()` [inline, virtual]

6.71.3 Member Function Documentation

6.71.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.71.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.71.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 241).

6.71.3.4 virtual void ac-
tivemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::looseUnmarshal
(**OpenWireFormat * wireFormat**, **commands::DataStructure * dataStructure**, **decaf::io::DataInputStream * dataIn**) throw (**decaf::io::IOException**) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 241).

6.71.3.5 virtual int ac-
tivemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::tightMarshal1
(**OpenWireFormat * wireFormat**, **commands::DataStructure * dataStructure**, **utils::BooleanStream * bs**) throw (**decaf::io::IOException**)
[virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 242).

```

6.71.3.6 virtual void ac-
tivemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::tightMarshal2
(OpenWireFormat * wireFormat, commands::DataStructure
* dataStructure, decaf::io::DataOutputStream * dataOut,
utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 242).

```

6.71.3.7 virtual void ac-
tivemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller::tightUnmarshal
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
* bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller** (p. 243).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTopicMarshaller.h`

6.72 activemq:wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 473).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTopicMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller:

Public Member Functions

- **ActiveMQTopicMarshaller** ()
- virtual **~ActiveMQTopicMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.72.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 473). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.72.2 Constructor & Destructor Documentation

6.72.2.1 `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::ActiveMQTopicMarshaller()` [inline]

6.72.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::~~ActiveMQTopicMarshaller()` [inline, virtual]

6.72.3 Member Function Documentation

6.72.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.72.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.72.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 245).

6.72.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 245).

6.72.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 246).

```

6.72.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::tightMarshal2
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 246).

```

6.72.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller::tightUnmarshal
    (OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
    * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 247).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ActiveMQTopicMarshaller.h**

6.73 activemq:wireformat::openwire::marshal:v2::ActiveMQTopicMarshaller Class Reference

Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 477).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTopicMarshaller.h>Inheritance diagram for activemq:wireformat::openwire::marshal:v2::ActiveMQTopicMarshaller:

Public Member Functions

- **ActiveMQTopicMarshaller** ()
- virtual **~ActiveMQTopicMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.73.1 Detailed Description

Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 477). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.73.2 Constructor & Destructor Documentation

6.73.2.1 `activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::ActiveMQTopicMarshaller()` [inline]

6.73.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::~~ActiveMQTopicMarshaller()` [inline, virtual]

6.73.3 Member Function Documentation

6.73.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.73.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.73.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 249).

6.73.3.4 virtual void activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::looseUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 249).

6.73.3.5 virtual int activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::tightMarshal1 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 250).

```

6.73.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::tightMarshal2
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 250).

```

6.73.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller::tightUnmarshal
    (OpenWireFormat * wireFormat, commands::DataStructure *
    dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream
    * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller** (p. 251).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ActiveMQTopicMarshaller.h**

6.74 activemq::core::ActiveMQTransactionContext Class Reference

Transaction Management class, hold messages that are to be redelivered upon a request to roll-back.

```
#include <src/main/activemq/core/ActiveMQTransactionContext.h>
```

Public Member Functions

- **ActiveMQTransactionContext** (**ActiveMQSession** *session, const **decaf::util::Properties** &properties)
Constructor.
- virtual **~ActiveMQTransactionContext** ()
- virtual void **addSynchronization** (const **Pointer**< **Synchronization** > &sync)
*Adds a **Synchronization** (p. 2516) to this Transaction.*
- virtual void **removeSynchronization** (const **Pointer**< **Synchronization** > &sync)
*Removes a **Synchronization** (p. 2516) to this Transaction.*
- virtual void **begin** () throw (exceptions::ActiveMQException)
Begins a new transaction if one is not currently in progress.
- virtual void **commit** () throw (exceptions::ActiveMQException)
Commit the current Transaction.
- virtual void **rollback** () throw (exceptions::ActiveMQException)
Rollback the current Transaction.
- virtual const **decaf::lang::Pointer**< **commands::TransactionId** > &**getTransactionId** () const
Get the Transaction Id object for the current Transaction, returns NULL if no transaction is running.
- virtual bool **isInTransaction** () const
Checks to see if there is currently a Transaction in progress returns false if not, true otherwise.
- int **getMaximumRedeliveries** () const
- long **getRedeliveryDelay** () const

6.74.1 Detailed Description

Transaction Management class, hold messages that are to be redelivered upon a request to roll-back. The Transaction represents an always running transaction, when it is committed or rolled back it silently creates a new transaction for the next set of messages. The only way to permanently end this transaction is to delete it.

Configuration options

transaction.maxRedeliveryCount Max number of times a message can be re-delivered, if the session is rolled back more than this many time, the message is dropped.

6.74.2 Constructor & Destructor Documentation

6.74.2.1 `activemq::core::ActiveMQTransactionContext::ActiveMQTransactionContext (ActiveMQSession * session, const decaf::util::Properties & properties)`

Constructor.

Parameters:

session - the session that contains this transaction

properties - configuration parameters for this object

6.74.2.2 `virtual activemq::core::ActiveMQTransactionContext::~ActiveMQTransactionContext () [virtual]`

6.74.3 Member Function Documentation

6.74.3.1 `virtual void activemq::core::ActiveMQTransactionContext::addSynchronization (const Pointer< Synchronization > & sync) [virtual]`

Adds a **Synchronization** (p. 2516) to this Transaction.

Parameters:

sync - The **Synchronization** (p. 2516) instance to add.

6.74.3.2 `virtual void activemq::core::ActiveMQTransactionContext::begin () throw (exceptions::ActiveMQException) [virtual]`

Begins a new transaction if one is not currently in progress.

Exceptions:

ActiveMQException

6.74.3.3 `virtual void activemq::core::ActiveMQTransactionContext::commit () throw (exceptions::ActiveMQException) [virtual]`

Commit the current Transaction.

Exceptions:

ActiveMQException

6.74.3.4 `int activemq::core::ActiveMQTransactionContext::getMaximumRedeliveries () const [inline]`

6.74.3.5 `long long activemq::core::ActiveMQTransactionContext::getRedeliveryDelay () const [inline]`

6.74.3.6 `virtual const decaf::lang::Pointer<commands::TransactionId>& activemq::core::ActiveMQTransactionContext::getTransactionId () const [inline, virtual]`

Get the Transaction Id object for the current Transaction, returns NULL if no transaction is running.

Returns:

TransactionInfo

Exceptions:

InvalidStateException if a Transaction is not in progress.

6.74.3.7 `virtual bool activemq::core::ActiveMQTransactionContext::isInTransaction () const [inline, virtual]`

Checks to see if there is currently a Transaction in progress returns false if not, true otherwise.

Returns:

true if a transaction is in progress.

6.74.3.8 `virtual void activemq::core::ActiveMQTransactionContext::removeSynchronization (const Pointer< Synchronization > & sync) [virtual]`

Removes a **Synchronization** (p. 2516) to this Transaction.

Parameters:

sync - The **Synchronization** (p. 2516) instance to add.

6.74.3.9 `virtual void activemq::core::ActiveMQTransactionContext::rollback () throw (exceptions::ActiveMQException) [virtual]`

Rollback the current Transaction.

Exceptions:

ActiveMQException

The documentation for this class was generated from the following file:

- `src/main/activemq/core/ActiveMQTransactionContext.h`

6.75 decaf::lang::Appendable Class Reference

#include <src/main/decaf/lang/Appendable.h> Inheritance diagram for decaf::lang::Appendable:

Public Member Functions

- virtual **~Appendable** ()
- virtual **Appendable & append** (char value)=0 throw (decaf::lang::Exception)
*Appends the specified character to this **Appendable** (p. 484).*
- virtual **Appendable & append** (const **CharSequence** *csq)=0 throw (decaf::lang::Exception)
*Appends the specified character sequence to this **Appendable** (p. 484).*
- virtual **Appendable & append** (const **CharSequence** *csq, std::size_t start, std::size_t end)=0 throw (decaf::lang::Exception)
*Appends a subsequence of the specified character sequence to this **Appendable** (p. 484).*

6.75.1 Constructor & Destructor Documentation

6.75.1.1 virtual decaf::lang::Appendable::~~Appendable () [inline, virtual]

6.75.2 Member Function Documentation

6.75.2.1 virtual Appendable& decaf::lang::Appendable::append (const **CharSequence** * *csq*, std::size_t *start*, std::size_t *end*) throw (decaf::lang::Exception) [pure virtual]

Appends a subsequence of the specified character sequence to this **Appendable** (p. 484).

Parameters:

- csq* - The character sequence from which a subsequence will be appended. If csq is NULL, then characters will be appended as if csq contained the string "null".
- start* - The index of the first character in the subsequence
- end* - The index of the character following the last character in the subsequence

Returns:

a Reference to this **Appendable** (p. 484)

Exceptions:

- Exception* (p. 1268) if an error occurs.
- IndexOutOfBoundsException* start is greater than end, or end is greater than csq.length()

Implemented in **decaf::nio::CharBuffer** (p. 820).

6.75.2.2 virtual Appendable& decaf::lang::Appendable::append (const CharSequence * *csq*) throw (decaf::lang::Exception) [pure virtual]

Appends the specified character sequence to this **Appendable** (p. 484).

Parameters:

csq - The character sequence from which a subsequence will be appended. If *csq* is NULL, then characters will be appended as if *csq* contained the string "null".

Returns:

a Reference to this **Appendable** (p. 484)

Exceptions:

Exception (p. 1268) if an error occurs.

Implemented in **decaf::nio::CharBuffer** (p. 821).

6.75.2.3 virtual Appendable& decaf::lang::Appendable::append (char *value*) throw (decaf::lang::Exception) [pure virtual]

Appends the specified character to this **Appendable** (p. 484).

Parameters:

value - The character to append

Returns:

a Reference to this **Appendable** (p. 484)

Exceptions:

Exception (p. 1268) if an error occurs.

Implemented in **decaf::nio::CharBuffer** (p. 821).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**Appendable.h**

6.76 decaf::internal::AprPool Class Reference

Wraps an APR pool object so that classes in **decaf** (p. 94) can create a static member for use in static methods where apr function calls that need a pool are made.

```
#include <src/main/decaf/internal/AprPool.h>
```

Public Member Functions

- **AprPool** ()
- virtual **~AprPool** ()
- **apr_pool_t * getAprPool** () const
*Gets the **internal** (p. 95) APR Pool.*
- void **cleanup** ()
Clears data that was allocated by this pool.

Static Public Member Functions

- static **apr_pool_t * getGlobalPool** ()
Gets a pointer to the Global APR Pool used for the Application.

6.76.1 Detailed Description

Wraps an APR pool object so that classes in **decaf** (p. 94) can create a static member for use in static methods where apr function calls that need a pool are made.

6.76.2 Constructor & Destructor Documentation

6.76.2.1 decaf::internal::AprPool::AprPool ()

6.76.2.2 virtual decaf::internal::AprPool::~~AprPool () [virtual]

6.76.3 Member Function Documentation

6.76.3.1 void decaf::internal::AprPool::cleanup ()

Clears data that was allocated by this pool. Users should call this after getting the data from the APR functions and copying it to someplace safe.

6.76.3.2 apr_pool_t* decaf::internal::AprPool::getAprPool () const

Gets the **internal** (p. 95) APR Pool.

Returns:

the **internal** (p. 95) APR pool

6.76.3.3 static apr_pool_t* decaf::internal::AprPool::getGlobalPool () [static]

Gets a pointer to the Global APR Pool used for the Application.

Returns:

pointer to the global APR Pool

The documentation for this class was generated from the following file:

- src/main/decaf/internal/**AprPool.h**

6.77 decaf::util::concurrent::atomic::AtomicBoolean Class Reference

A boolean value that may be updated atomically.

```
#include <src/main/decaf/util/concurrent/atomic/AtomicBoolean.h>
```

Public Member Functions

- **AtomicBoolean** ()
*Creates a new **AtomicBoolean** (p. 488) whose initial value is false.*
- **AtomicBoolean** (bool initialValue)
*Creates a new **AtomicBoolean** (p. 488) with the initial value.*
- virtual ~**AtomicBoolean** ()
- bool **get** () const
*Gets the current value of this **AtomicBoolean** (p. 488).*
- void **set** (bool newValue)
Unconditionally sets to the given value.
- bool **compareAndSet** (bool expect, bool update)
Atomically sets the value to the given updated value if the current value == the expected value.
- bool **getAndSet** (bool newValue)
Atomically sets to the given value and returns the previous value.
- std::string **toString** () const
Returns the String representation of the current value.

6.77.1 Detailed Description

A boolean value that may be updated atomically. An **AtomicBoolean** (p. 488) is used in applications such as atomically updated flags, and cannot be used as a replacement for a Boolean.

6.77.2 Constructor & Destructor Documentation

6.77.2.1 decaf::util::concurrent::atomic::AtomicBoolean::AtomicBoolean ()

Creates a new **AtomicBoolean** (p. 488) whose initial value is false.

6.77.2.2 decaf::util::concurrent::atomic::AtomicBoolean::AtomicBoolean (bool initialValue)

Creates a new **AtomicBoolean** (p. 488) with the initial value.

Parameters:

initialValue - The initial value of this boolean.

6.77.2.3 `virtual decaf::util::concurrent::atomic::AtomicBoolean::~~AtomicBoolean ()`
 [inline, virtual]

6.77.3 Member Function Documentation

6.77.3.1 `bool decaf::util::concurrent::atomic::AtomicBoolean::compareAndSet (bool`
 `expect, bool update)`

Atomically sets the value to the given updated value if the current value == the expected value.

Parameters:

expect - the expected value

update - the new value

Returns:

true if successful. False return indicates that the actual value was not equal to the expected value.

6.77.3.2 `bool decaf::util::concurrent::atomic::AtomicBoolean::get () const` [inline]

Gets the current value of this **AtomicBoolean** (p.488).

Returns:

the currently set value.

6.77.3.3 `bool decaf::util::concurrent::atomic::AtomicBoolean::getAndSet (bool`
 `new Value)`

Atomically sets to the given value and returns the previous value.

Parameters:

new Value - the new value

Returns:

the previous value

6.77.3.4 `void decaf::util::concurrent::atomic::AtomicBoolean::set (bool new Value)`
 [inline]

Unconditionally sets to the given value.

Parameters:

new Value - the new value

6.77.3.5 `std::string decaf::util::concurrent::atomic::AtomicBoolean::toString ()` `const`

Returns the String representation of the current value.

Returns:

the String representation of the current value.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/atomic/AtomicBoolean.h`

6.78 decaf::util::concurrent::atomic::AtomicInteger Class Reference

An int value that may be updated atomically.

#include <src/main/decaf/util/concurrent/atomic/AtomicInteger.h> Inheritance diagram for decaf::util::concurrent::atomic::AtomicInteger:

Public Member Functions

- **AtomicInteger** ()
*Create a new **AtomicInteger** (p. 491) with an initial value of 0.*
- **AtomicInteger** (int initialValue)
*Create a new **AtomicInteger** (p. 491) with the given initial value.*
- virtual **~AtomicInteger** ()
- int **get** () const
Gets the current value.
- void **set** (int newValue)
Sets to the given value.
- int **getAndSet** (int newValue)
Atomically sets to the given value and returns the old value.
- bool **compareAndSet** (int expect, int update)
Atomically sets the value to the given updated value if the current value == the expected value.
- int **getAndIncrement** ()
Atomically increments by one the current value.
- int **getAndDecrement** ()
Atomically decrements by one the current value.
- int **getAndAdd** (int delta)
Atomically adds the given value to the current value.
- int **incrementAndGet** ()
Atomically increments by one the current value.
- int **decrementAndGet** ()
Atomically decrements by one the current value.
- int **addAndGet** (int delta)
Atomically adds the given value to the current value.
- std::string **toString** () const

Returns the String representation of the current value.

- int **intValue** () const

Description copied from class: Number Returns the value of the specified number as an int.

- long long **longValue** () const

Description copied from class: Number Returns the value of the specified number as a long.

- float **floatValue** () const

Description copied from class: Number Returns the value of the specified number as a float.

- double **doubleValue** () const

Description copied from class: Number Returns the value of the specified number as a double.

6.78.1 Detailed Description

An int value that may be updated atomically. An **AtomicInteger** (p. 491) is used in applications such as atomically incremented counters, and cannot be used as a replacement for an Integer. However, this class does extend Number to allow uniform access by tools and utilities that deal with numerically-based classes.

6.78.2 Constructor & Destructor Documentation

6.78.2.1 decaf::util::concurrent::atomic::AtomicInteger::AtomicInteger ()

Create a new **AtomicInteger** (p. 491) with an initial value of 0.

6.78.2.2 decaf::util::concurrent::atomic::AtomicInteger::AtomicInteger (int *initialValue*)

Create a new **AtomicInteger** (p. 491) with the given initial value.

Parameters:

initialValue - The initial value of this object.

6.78.2.3 virtual decaf::util::concurrent::atomic::AtomicInteger::~~AtomicInteger () [inline, virtual]

6.78.3 Member Function Documentation

6.78.3.1 int decaf::util::concurrent::atomic::AtomicInteger::addAndGet (int *delta*)

Atomically adds the given value to the current value.

Parameters:

delta - the value to add.

Returns:

the updated value.

6.78.3.2 `bool decaf::util::concurrent::atomic::AtomicInteger::compareAndSet (int expect, int update)`

Atomically sets the value to the given updated value if the current value == the expected value.

Parameters:

expect - the expected value

update - the new value

Returns:

true if successful. False return indicates that the actual value was not equal to the expected value.

6.78.3.3 `int decaf::util::concurrent::atomic::AtomicInteger::decrementAndGet ()`

Atomically decrements by one the current value.

Returns:

the updated value.

Referenced by `decaf::lang::AtomicRefCounter::release()`.

6.78.3.4 `double decaf::util::concurrent::atomic::AtomicInteger::doubleValue () const [virtual]`

Description copied from class: `Number` Returns the value of the specified number as a double. This may involve rounding.

Returns:

the numeric value represented by this object after conversion to type double.

Implements `decaf::lang::Number` (p. 1955).

6.78.3.5 `float decaf::util::concurrent::atomic::AtomicInteger::floatValue () const [virtual]`

Description copied from class: `Number` Returns the value of the specified number as a float. This may involve rounding.

Returns:

the numeric value represented by this object after conversion to type float.

Implements `decaf::lang::Number` (p. 1955).

6.78.3.6 `int decaf::util::concurrent::atomic::AtomicInteger::get () const [inline]`

Gets the current value.

Returns:

the current value.

6.78.3.7 `int decaf::util::concurrent::atomic::AtomicInteger::getAndAdd (int delta)`

Atomically adds the given value to the current value.

Parameters:

delta - The value to add.

Returns:

the previous value.

6.78.3.8 `int decaf::util::concurrent::atomic::AtomicInteger::getAndDecrement ()`

Atomically decrements by one the current value.

Returns:

the previous value.

6.78.3.9 `int decaf::util::concurrent::atomic::AtomicInteger::getAndIncrement ()`

Atomically increments by one the current value.

Returns:

the previous value.

6.78.3.10 `int decaf::util::concurrent::atomic::AtomicInteger::getAndSet (int new Value)`

Atomically sets to the given value and returns the old value.

Parameters:

new Value - the new value.

Returns:

the previous value.

6.78.3.11 int decaf::util::concurrent::atomic::AtomicInteger::incrementAndGet ()

Atomically increments by one the current value.

Returns:

the updated value.

Referenced by `decaf::lang::AtomicRefCounter::AtomicRefCounter()`.

6.78.3.12 int decaf::util::concurrent::atomic::AtomicInteger::intValue () const [virtual]

Description copied from class: Number Returns the value of the specified number as an int. This may involve rounding or truncation.

Returns:

the numeric value represented by this object after conversion to type int.

Implements **decaf::lang::Number** (p.1955).

6.78.3.13 long long decaf::util::concurrent::atomic::AtomicInteger::longValue () const [virtual]

Description copied from class: Number Returns the value of the specified number as a long. This may involve rounding or truncation.

Returns:

the numeric value represented by this object after conversion to type long long.

Implements **decaf::lang::Number** (p.1955).

6.78.3.14 void decaf::util::concurrent::atomic::AtomicInteger::set (int *newValue*) [inline]

Sets to the given value.

Parameters:

newValue - the new value

6.78.3.15 std::string decaf::util::concurrent::atomic::AtomicInteger::toString () const

Returns the String representation of the current value.

Returns:

the String representation of the current value.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/atomic/AtomicInteger.h`

6.79 decaf::lang::AtomicRefCounter Class Reference

#include <src/main/decaf/lang/Pointer.h> Inheritance diagram for decaf::lang::AtomicRefCounter:

Public Member Functions

- **AtomicRefCounter** ()
- **AtomicRefCounter** (const **AtomicRefCounter** &other)
- void **swap** (**AtomicRefCounter** &other)

Swaps this instance's reference counter with the one given, this allows for copy-and-swap semantics of this object.
- bool **release** ()

*Removes a reference to the counter Atomically and returns if the counter has reached zero, once the counter hits zero, the **internal** (p. 95) counter is destroyed and this instance is now considered to be unreferenced.*

6.79.1 Constructor & Destructor Documentation

6.79.1.1 decaf::lang::AtomicRefCounter::AtomicRefCounter () [inline]

6.79.1.2 decaf::lang::AtomicRefCounter::AtomicRefCounter (const **AtomicRefCounter** & *other*) [inline]

References decaf::util::concurrent::atomic::AtomicInteger::incrementAndGet().

6.79.2 Member Function Documentation

6.79.2.1 bool decaf::lang::AtomicRefCounter::release () [inline]

Removes a reference to the counter Atomically and returns if the counter has reached zero, once the counter hits zero, the **internal** (p. 95) counter is destroyed and this instance is now considered to be unreferenced.

Returns:

true if the count is now zero.

References decaf::util::concurrent::atomic::AtomicInteger::decrementAndGet().

6.79.2.2 void decaf::lang::AtomicRefCounter::swap (**AtomicRefCounter** & *other*) [inline]

Swaps this instance's reference counter with the one given, this allows for copy-and-swap semantics of this object.

Parameters:

other The value to swap with this one's.

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**Pointer.h**

6.80 decaf::util::concurrent::atomic::AtomicReference< T > Class Template Reference

An Pointer reference that may be updated atomically.

```
#include <src/main/decaf/util/concurrent/atomic/AtomicReference.h>
```

Public Member Functions

- **AtomicReference** ()
- **AtomicReference** (T *value)
- virtual ~**AtomicReference** ()
- T * **get** () const

Gets the Current Value.

- void **set** (T *newValue)

Sets the Current value of this Reference.

- bool **compareAndSet** (T *expect, T *update)

Atomically sets the value to the given updated value if the current value == the expected value.

- T * **getAndSet** (T *newValue)

Atomically sets to the given value and returns the old value.

- std::string **toString** () const

Returns the String representation of the current value.

6.80.1 Detailed Description

```
template<typename T> class decaf::util::concurrent::atomic::AtomicReference< T >
```

An Pointer reference that may be updated atomically.

6.80.2 Constructor & Destructor Documentation

6.80.2.1 `template<typename T> decaf::util::concurrent::atomic::AtomicReference< T >::AtomicReference () [inline]`

6.80.2.2 `template<typename T> decaf::util::concurrent::atomic::AtomicReference< T >::AtomicReference (T * value) [inline]`

6.80.2.3 `template<typename T> virtual decaf::util::concurrent::atomic::AtomicReference< T >::~~AtomicReference () [inline, virtual]`

6.80.3 Member Function Documentation

6.80.3.1 `template<typename T> bool decaf::util::concurrent::atomic::AtomicReference< T >::compareAndSet (T * expect, T * update) [inline]`

Atomically sets the value to the given updated value if the current value == the expected value.

Parameters:

expect - the expected value

update - the new value

Returns:

true if successful. False return indicates that the actual value was not equal to the expected value.

6.80.3.2 `template<typename T> T* decaf::util::concurrent::atomic::AtomicReference< T >::get () const [inline]`

Gets the Current Value.

Returns:

the current value of this Reference.

6.80.3.3 `template<typename T> T* decaf::util::concurrent::atomic::AtomicReference< T >::getAndSet (T * new Value) [inline]`

Atomically sets to the given value and returns the old value.

Parameters:

new Value- the new value

Returns:

the previous value.

6.80.3.4 `template<typename T > void
decaf::util::concurrent::atomic::AtomicReference< T >::set
(T * newValue) [inline]`

Sets the Current value of this Reference.

Parameters:

newValue The new Value of this Reference.

6.80.3.5 `template<typename T > std::string
decaf::util::concurrent::atomic::AtomicReference< T
>::toString () const [inline]`

Returns the String representation of the current value.

Returns:

string representation of the current value.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/atomic/AtomicReference.h`

6.81 activemq::transport::failover::BackupTransport Class Reference

#include <src/main/activemq/transport/failover/BackupTransport.h> Inheritance diagram for activemq::transport::failover::BackupTransport:

Public Member Functions

- **BackupTransport** (**BackupTransportPool** *failover)
- virtual **~BackupTransport** ()
- **decaf::net::URI** **getUri** () const
Gets the URI assigned to this Backup.
- void **setUri** (const **decaf::net::URI** &uri)
*Sets the URI assigned to this **Transport** (p. 2608).*
- const **Pointer**< **Transport** > & **getTransport** ()
*Gets the currently held **transport** (p. 67).*
- void **setTransport** (const **Pointer**< **Transport** > &transport)
*Sets the held **transport** (p. 67), if not NULL then start to listen for **exceptions** (p. 62) from the held **transport** (p. 67).*
- virtual void **onException** (const **decaf::lang::Exception** &ex)
*Event handler for an exception from a command **transport** (p. 67).*
- bool **isClosed** () const
*Has the **Transport** (p. 2608) been shutdown and no longer usable.*
- void **setClosed** (bool value)
*Sets the closed flag on this **Transport** (p. 2608).*

6.81.1 Constructor & Destructor Documentation

- 6.81.1.1 **activemq::transport::failover::BackupTransport::BackupTransport** (**BackupTransportPool** * failover)
- 6.81.1.2 virtual **activemq::transport::failover::BackupTransport::~~BackupTransport** () [virtual]

6.81.2 Member Function Documentation

- 6.81.2.1 const **Pointer**<**Transport**>& **activemq::transport::failover::BackupTransport::getTransport** () [inline]

Gets the currently held **transport** (p. 67).

Returns:

pointer to the held **transport** (p. 67) or NULL if not set.

6.81.2.2 `decaf::net::URI activemq::transport::failover::BackupTransport::getUri () const [inline]`

Gets the URI assigned to this Backup.

Returns:

the assigned URI

6.81.2.3 `bool activemq::transport::failover::BackupTransport::isClosed () const [inline]`

Has the **Transport** (p. 2608) been shutdown and no longer usable.

Returns:

true if the **Transport** (p. 2608)

6.81.2.4 `virtual void activemq::transport::failover::BackupTransport::onException (const decaf::lang::Exception & ex) [virtual]`

Event handler for an exception from a command **transport** (p. 67). The **BackupTransport** (p. 501) closes its internal **Transport** (p. 2608) when an exception is received and returns the URI to the pool of URIs to attempt connections to.

Parameters:

ex The exception that was passed to this listener to handle.

Implements **activemq::transport::TransportListener** (p. 2625).

6.81.2.5 `void activemq::transport::failover::BackupTransport::setClosed (bool value) [inline]`

Sets the closed flag on this **Transport** (p. 2608).

Parameters:

value - true for closed.

6.81.2.6 `void activemq::transport::failover::BackupTransport::setTransport (const Pointer< Transport > & transport) [inline]`

Sets the held **transport** (p. 67), if not NULL then start to listen for **exceptions** (p. 62) from the held **transport** (p. 67).

Parameters:

transport (p. 67) The **transport** (p. 67) to hold.

6.81.2.7 void activemq::transport::failover::BackupTransport::setUri (const decaf::net::URI & *uri*) [inline]

Sets the URI assigned to this **Transport** (p. 2608).

The documentation for this class was generated from the following file:

- src/main/activemq/transport/failover/**BackupTransport.h**

6.82 activemq::transport::failover::BackupTransportPool

Class Reference

#include <src/main/activemq/transport/failover/BackupTransportPool.h> Inheritance diagram for activemq::transport::failover::BackupTransportPool:

Public Member Functions

- **BackupTransportPool** (const **Pointer**< **CompositeTaskRunner** > &taskRunner, const **Pointer**< **CloseTransportsTask** > &closeTask, const **Pointer**< **URIPool** > &uriPool)
- **BackupTransportPool** (int backupPoolSize, const **Pointer**< **CompositeTaskRunner** > &taskRunner, const **Pointer**< **CloseTransportsTask** > &closeTask, const **Pointer**< **URIPool** > &uriPool)
- virtual ~**BackupTransportPool** ()
- virtual bool **isPending** () const
Return true if we don't currently have enough Connected Transports.
- **Pointer**< **BackupTransport** > **getBackup** ()
*Get a Connected **Transport** (p. 2608) from the pool of Backups if any are present, otherwise it return a NULL Pointer.*
- virtual bool **iterate** ()
Connect to a Backup Broker if we haven't already connected to the max number of Backups.
- int **getBackupPoolSize** () const
Gets the Max number of Backups this Task will create.
- void **setBackupPoolSize** (int size)
Sets the Max number of Backups this Task will create.
- bool **isEnabled** () const
*Gets if the backup **Transport** (p. 2608) Pool has been enabled or not, when not enabled no backups are created and any that were are destroyed.*
- void **setEnabled** (bool value)
*Sets if this Backup **Transport** (p. 2608) Pool is enabled.*

Friends

- class **BackupTransport**

6.82.1 Constructor & Destructor Documentation

6.82.1.1 `activemq::transport::failover::BackupTransportPool::BackupTransportPool (const Pointer< CompositeTaskRunner > & taskRunner, const Pointer< CloseTransportsTask > & closeTask, const Pointer< URIPool > & uriPool)`

6.82.1.2 `activemq::transport::failover::BackupTransportPool::BackupTransportPool (int backupPoolSize, const Pointer< CompositeTaskRunner > & taskRunner, const Pointer< CloseTransportsTask > & closeTask, const Pointer< URIPool > & uriPool)`

6.82.1.3 `virtual
activemq::transport::failover::BackupTransportPool::~~BackupTransportPool
() [virtual]`

6.82.2 Member Function Documentation

6.82.2.1 `Pointer<BackupTransport> ac-
tivemq::transport::failover::BackupTransportPool::getBackup
()`

Get a Connected **Transport** (p. 2608) from the pool of Backups if any are present, otherwise it return a NULL Pointer.

Returns:

Pointer to a Connected **Transport** (p. 2608) or NULL

6.82.2.2 `int ac-
tivemq::transport::failover::BackupTransportPool::getBackupPoolSize ()
const [inline]`

Gets the Max number of Backups this Task will create.

Returns:

the max number of active BackupTransports that will be created.

6.82.2.3 `bool activemq::transport::failover::BackupTransportPool::isEnabled ()
const [inline]`

Gets if the backup **Transport** (p. 2608) Pool has been enabled or not, when not enabled no backups are created and any that were are destroyed.

Returns:

true if enable.

6.82.2.4 `virtual bool activemq::transport::failover::BackupTransportPool::isPending
() const [virtual]`

Return true if we don't currently have enough Connected Transports.

Implements **activemq::threads::CompositeTask** (p. 906).

6.82.2.5 **virtual bool activemq::transport::failover::BackupTransportPool::iterate ()** [virtual]

Connect to a Backup Broker if we haven't already connected to the max number of Backups.

Implements **activemq::threads::Task** (p. 2520).

6.82.2.6 **void activemq::transport::failover::BackupTransportPool::setBackupPoolSize (int size)** [inline]

Sets the Max number of Backups this Task will create.

Parameters:

size - the max number of active BackupTransports that will be created.

6.82.2.7 **void activemq::transport::failover::BackupTransportPool::setEnabled (bool value)**

Sets if this Backup **Transport** (p. 2608) Pool is enabled. When not enabled no Backups are created and any that were are destroyed.

Parameters:

value - true to enable backup creation, false to disable.

6.82.3 Friends And Related Function Documentation

6.82.3.1 **friend class BackupTransport** [friend]

The documentation for this class was generated from the following file:

- src/main/activemq/transport/failover/**BackupTransportPool.h**

6.83 activemq::commands::BaseCommand Class Reference

#include <src/main/activemq/commands/BaseCommand.h> Inheritance diagram for activemq::commands::BaseCommand:

Public Member Functions

- **BaseCommand** ()
- virtual **~BaseCommand** ()
- virtual void **setCommandId** (int id)
*Sets the **Command** (p. 879) Id of this **Message** (p. 1737).*
- virtual int **getCommandId** () const
*Gets the **Command** (p. 879) Id of this **Message** (p. 1737).*
- virtual void **setResponseRequired** (const bool required)
*Set if this **Message** (p. 1737) requires a **Response** (p. 2231).*
- virtual bool **isResponseRequired** () const
*Is a **Response** (p. 2231) required for this **Command** (p. 879).*
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual bool **isConnectionInfo** () const
- virtual bool **isConsumerInfo** () const
- virtual bool **isBrokerInfo** () const
- virtual bool **isMessage** () const
- virtual bool **isMessageAck** () const
- virtual bool **isKeepAliveInfo** () const
- virtual bool **isMessageDispatch** () const
- virtual bool **isMessageDispatchNotification** () const
- virtual bool **isProducerAck** () const
- virtual bool **isProducerInfo** () const
- virtual bool **isResponse** () const
- virtual bool **isRemoveInfo** () const
- virtual bool **isRemoveSubscriptionInfo** () const
- virtual bool **isShutdownInfo** () const
- virtual bool **isTransactionInfo** () const
- virtual bool **isWireFormatInfo** () const

6.83.1 Constructor & Destructor Documentation

6.83.1.1 `activemq::commands::BaseCommand::BaseCommand ()` [inline]

6.83.1.2 `virtual activemq::commands::BaseCommand::~~BaseCommand ()`
[inline, virtual]

6.83.2 Member Function Documentation

6.83.2.1 `virtual void activemq::commands::BaseCommand::copyDataStructure (const DataStructure * src)` [inline, virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

`src` - Source Object

Reimplemented in `activemq::commands::ActiveMQBlobMessage` (p. 147), `activemq::commands::ActiveMQBytesMessage` (p. 167), `activemq::commands::ActiveMQMapMessage` (p. 258), `activemq::commands::ActiveMQMessage` (p. 280), `activemq::commands::ActiveMQObjectMessage` (p. 311), `activemq::commands::ActiveMQStreamMessage` (p. 377), `activemq::commands::ActiveMQTextMessage` (p. 450), `activemq::commands::BrokerError` (p. 587), `activemq::commands::BrokerInfo` (p. 609), `activemq::commands::ConnectionControl` (p. 946), `activemq::commands::ConnectionError` (p. 963), `activemq::commands::ConnectionInfo` (p. 999), `activemq::commands::ConsumerControl` (p. 1029), `activemq::commands::ConsumerInfo` (p. 1064), `activemq::commands::ControlCommand` (p. 1084), `activemq::commands::DataArrayResponse` (p. 1102), `activemq::commands::DataResponse` (p. 1133), `activemq::commands::DestinationInfo` (p. 1195), `activemq::commands::ExceptionResponse` (p. 1277), `activemq::commands::FlushCommand` (p. 1358), `activemq::commands::IntegerResponse` (p. 1443), `activemq::commands::KeepAliveInfo` (p. 1556), `activemq::commands::Message` (p. 1742), `activemq::commands::MessageAck` (p. 1778), `activemq::commands::MessageDispatch` (p. 1801), `activemq::commands::MessageDispatchNotification` (p. 1824), `activemq::commands::MessagePull` (p. 1894), `activemq::commands::ProducerAck` (p. 2087), `activemq::commands::ProducerInfo` (p. 2123), `activemq::commands::RemoveInfo` (p. 2178), `activemq::commands::RemoveSubscriptionInfo` (p. 2194), `activemq::commands::ReplayCommand` (p. 2211), `activemq::commands::Response` (p. 2232), `activemq::commands::SessionInfo` (p. 2301), `activemq::commands::ShutdownInfo` (p. 2350), `activemq::commands::TransactionInfo` (p. 2590), and `activemq::commands::WireFormatInfo` (p. 2702).

References `getCommandId()`, and `isResponseRequired()`.

6.83.2.2 `virtual bool activemq::commands::BaseCommand::equals (const DataStructure * value) const` [inline, virtual]

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented in **activemq::commands::ActiveMQBlobMessage** (p. 148), **activemq::commands::ActiveMQBytesMessage** (p. 167), **activemq::commands::ActiveMQMapMessage** (p. 259), **activemq::commands::ActiveMQMessage** (p. 280), **activemq::commands::ActiveMQObjectMessage** (p. 311), **activemq::commands::ActiveMQStreamMessage** (p. 377), **activemq::commands::ActiveMQTextMessage** (p. 450), **activemq::commands::BrokerInfo** (p. 609), **activemq::commands::ConnectionControl** (p. 947), **activemq::commands::ConnectionError** (p. 963), **activemq::commands::ConnectionInfo** (p. 999), **activemq::commands::ConsumerControl** (p. 1030), **activemq::commands::ConsumerInfo** (p. 1064), **activemq::commands::ControlCommand** (p. 1084), **activemq::commands::DataArrayResponse** (p. 1102), **activemq::commands::DataResponse** (p. 1133), **activemq::commands::DestinationInfo** (p. 1196), **activemq::commands::ExceptionResponse** (p. 1277), **activemq::commands::FlushCommand** (p. 1358), **activemq::commands::IntegerResponse** (p. 1443), **activemq::commands::KeepAliveInfo** (p. 1556), **activemq::commands::Message** (p. 1742), **activemq::commands::MessageAck** (p. 1779), **activemq::commands::MessageDispatch** (p. 1802), **activemq::commands::MessageDispatchNotification** (p. 1825), **activemq::commands::MessagePull** (p. 1895), **activemq::commands::ProducerAck** (p. 2087), **activemq::commands::ProducerInfo** (p. 2124), **activemq::commands::RemoveInfo** (p. 2178), **activemq::commands::RemoveSubscriptionInfo** (p. 2195), **activemq::commands::ReplayCommand** (p. 2211), **activemq::commands::Response** (p. 2232), **activemq::commands::SessionInfo** (p. 2301), **activemq::commands::ShutdownInfo** (p. 2350), **activemq::commands::TransactionInfo** (p. 2590), and **activemq::commands::WireFormatInfo** (p. 2702).

References **activemq::commands::BaseDataStructure::equals()**.

6.83.2.3 virtual int activemq::commands::BaseCommand::getCommandId () const [inline, virtual]

Gets the **Command** (p. 879) Id of this **Message** (p. 1737).

Returns:

Command (p. 879) Id

Implements **activemq::commands::Command** (p. 880).

Referenced by **copyDataStructure()**.

6.83.2.4 virtual bool activemq::commands::BaseCommand::isBrokerInfo () const [inline, virtual]

Implements **activemq::commands::Command** (p. 880).

Reimplemented in **activemq::commands::BrokerInfo** (p. 611).

6.83.2.5 `virtual bool activemq::commands::BaseCommand::isConnectionInfo () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 880).

Reimplemented in `activemq::commands::ConnectionInfo` (p. 1000).

6.83.2.6 `virtual bool activemq::commands::BaseCommand::isConsumerInfo () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 880).

Reimplemented in `activemq::commands::ConsumerInfo` (p. 1066).

6.83.2.7 `virtual bool activemq::commands::BaseCommand::isKeepAliveInfo () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 880).

Reimplemented in `activemq::commands::KeepAliveInfo` (p. 1557).

6.83.2.8 `virtual bool activemq::commands::BaseCommand::isMessage () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 880).

Reimplemented in `activemq::commands::Message` (p. 1747).

6.83.2.9 `virtual bool activemq::commands::BaseCommand::isMessageAck () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::MessageAck` (p. 1780).

6.83.2.10 `virtual bool activemq::commands::BaseCommand::isMessageDispatch () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::MessageDispatch` (p. 1803).

6.83.2.11 `virtual bool activemq::commands::BaseCommand::isMessageDispatchNotification () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::MessageDispatchNotification` (p. 1826).

6.83.2.12 `virtual bool activemq::commands::BaseCommand::isProducerAck () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::ProducerAck` (p. 2088).

6.83.2.13 `virtual bool activemq::commands::BaseCommand::isProducerInfo () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::ProducerInfo` (p. 2125).

6.83.2.14 `virtual bool activemq::commands::BaseCommand::isRemoveInfo () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::RemoveInfo` (p. 2179).

6.83.2.15 `virtual bool activemq::commands::BaseCommand::isRemoveSubscriptionInfo () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::RemoveSubscriptionInfo` (p. 2196).

6.83.2.16 `virtual bool activemq::commands::BaseCommand::isResponse () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 881).

Reimplemented in `activemq::commands::Response` (p. 2233).

6.83.2.17 `virtual bool activemq::commands::BaseCommand::isResponseRequired () const [inline, virtual]`

Is a **Response** (p. 2231) required for this **Command** (p. 879).

Returns:

true if a response is required.

Implements `activemq::commands::Command` (p. 882).

Referenced by `copyDataStructure()`.

6.83.2.18 `virtual bool activemq::commands::BaseCommand::isShutdownInfo () const [inline, virtual]`

Implements `activemq::commands::Command` (p. 882).

Reimplemented in `activemq::commands::ShutdownInfo` (p. 2351).

6.83.2.19 `virtual bool activemq::commands::BaseCommand::isTransactionInfo ()`
`const [inline, virtual]`

Implements `activemq::commands::Command` (p. 882).

Reimplemented in `activemq::commands::TransactionInfo` (p. 2591).

6.83.2.20 `virtual bool activemq::commands::BaseCommand::isWireFormatInfo ()`
`const [inline, virtual]`

Implements `activemq::commands::Command` (p. 882).

Reimplemented in `activemq::commands::WireFormatInfo` (p. 2706).

6.83.2.21 `virtual void activemq::commands::BaseCommand::setCommandId (int`
`id) [inline, virtual]`

Sets the **Command** (p. 879) Id of this **Message** (p. 1737).

Parameters:

id **Command** (p. 879) Id

Implements `activemq::commands::Command` (p. 882).

6.83.2.22 `virtual void activemq::commands::BaseCommand::setResponseRequired`
`(const bool required) [inline, virtual]`

Set if this **Message** (p. 1737) requires a **Response** (p. 2231).

Parameters:

required true if response is required

Implements `activemq::commands::Command` (p. 882).

6.83.2.23 `virtual std::string activemq::commands::BaseCommand::toString () const`
`[inline, virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Implements `activemq::commands::Command` (p. 883).

Reimplemented in `activemq::commands::ActiveMQBlobMessage` (p. 150), `activemq::commands::ActiveMQBytesMessage` (p. 173), `activemq::commands::ActiveMQMapMessage` (p. 266), `activemq::commands::ActiveMQMessage` (p. 281), `activemq::commands::ActiveMQObjectMessage` (p. 312), `activemq::commands::ActiveMQStreamMessage` (p. 382), `activemq::commands::ActiveMQTextMessage` (p. 452), `activemq::commands::BrokerInfo`

(p. 612), [activemq::commands::ConnectionControl](#) (p. 948), [activemq::commands::ConnectionError](#) (p. 964), [activemq::commands::ConnectionInfo](#) (p. 1001), [activemq::commands::ConsumerControl](#) (p. 1031), [activemq::commands::ConsumerInfo](#) (p. 1067), [activemq::commands::ControlCommand](#) (p. 1085), [activemq::commands::DataArrayResponse](#) (p. 1103), [activemq::commands::DataResponse](#) (p. 1134), [activemq::commands::DestinationInfo](#) (p. 1197), [activemq::commands::ExceptionResponse](#) (p. 1278), [activemq::commands::FlushCommand](#) (p. 1359), [activemq::commands::IntegerResponse](#) (p. 1444), [activemq::commands::KeepAliveInfo](#) (p. 1557), [activemq::commands::Message](#) (p. 1749), [activemq::commands::MessageAck](#) (p. 1781), [activemq::commands::MessageDispatch](#) (p. 1803), [activemq::commands::MessageDispatchNotification](#) (p. 1827), [activemq::commands::MessagePull](#) (p. 1896), [activemq::commands::ProducerAck](#) (p. 2088), [activemq::commands::ProducerInfo](#) (p. 2125), [activemq::commands::RemoveInfo](#) (p. 2179), [activemq::commands::RemoveSubscriptionInfo](#) (p. 2196), [activemq::commands::ReplayCommand](#) (p. 2212), [activemq::commands::Response](#) (p. 2233), [activemq::commands::SessionInfo](#) (p. 2302), [activemq::commands::ShutdownInfo](#) (p. 2351), [activemq::commands::TransactionInfo](#) (p. 2592), and [activemq::commands::WireFormatInfo](#) (p. 2708).

References [activemq::commands::BaseDataStructure::toString\(\)](#).

The documentation for this class was generated from the following file:

- [src/main/activemq/commands/BaseCommand.h](#)

6.84 activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 514).

#include <src/main/activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller:

Public Member Functions

- **BaseCommandMarshaller** ()
- virtual **~BaseCommandMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshall an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshall an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.84.1 Detailed Description

Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 514). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.84.2 Constructor & Destructor Documentation

- 6.84.2.1 `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller::BaseCommandMarshaller()` [inline]
- 6.84.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller::~~BaseCommandMarshaller()` [inline, virtual]

6.84.3 Member Function Documentation

- 6.84.3.1 `virtual void` `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller` (p. 152), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller` (p. 179), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller` (p. 268), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller` (p. 283), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller` (p. 314), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller` (p. 388), `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller` (p. 454), `activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller` (p. 616), `activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller` (p. 951), `activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller` (p. 967), `activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller` (p. 1004), `activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller` (p. 1034), `activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller` (p. 1071), `activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller` (p. 1092), `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1105), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1136), `activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller` (p. 1200), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1280), `activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller` (p. 1365), `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1454), `activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller` (p. 1559), `activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller` (p. 1788), `activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller` (p. 1816), `activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller`

(p. 1838), `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1867), `activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller` (p. 1903), `activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller` (p. 2091), `activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller` (p. 2132), `activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller` (p. 2190), `activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller` (p. 2203), `activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller` (p. 2219), `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247), `activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller` (p. 2313), `activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller` (p. 2361), and `activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller` (p. 2599).

6.84.3.2 virtual void ac-

`activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller::looseUnmarshal` (`OpenWireFormat * wireFormat`, `commands::DataStructure * dataStructure`, `decaf::io::DataInputStream * dataIn`) throw (`decaf::io::IOException`) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller` (p. 153), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller` (p. 180), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller` (p. 269), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller` (p. 284), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller` (p. 315), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller` (p. 389), `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller` (p. 455), `activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller` (p. 617), `activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller` (p. 952), `activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller` (p. 968), `activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller` (p. 1005), `activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller` (p. 1035), `activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller` (p. 1072), `activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller` (p. 1093), `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1106), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1137), `activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller` (p. 1201), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1281), `activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller` (p. 1366), `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1455), `activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller` (p. 1560),

activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller (p. 1789), activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller (p. 1817), activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller (p. 1839), activemq::wireformat::openwire::marshal::v3::MessageMarshaller (p. 1867), activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1904), activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2092), activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2133), activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2191), activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller (p. 2204), activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller (p. 2220), activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (p. 2248), activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2314), activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (p. 2362), and activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2600).

6.84.3.3 virtual int **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) **throw** (**decaf::io::IOException**)
[virtual]

Write the booleans that this object uses to a **BooleanStream**.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - **BooleanStream** stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller** (p. 153), **activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller** (p. 180), **activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller** (p. 269), **activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller** (p. 284), **activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller** (p. 315), **activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller** (p. 389), **activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller** (p. 455), **activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller** (p. 617), **activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller** (p. 952), **activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller** (p. 968), **activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller** (p. 1005), **activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller** (p. 1035), **activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller** (p. 1072), **activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller** (p. 1093), **activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller** (p. 1106),

activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (p. 1137),
activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (p. 1201), **activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller** (p. 1281),
activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (p. 1366),
activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (p. 1455),
activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1560),
activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller (p. 1789), **activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller** (p. 1817), **activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller** (p. 1839),
activemq::wireformat::openwire::marshal::v3::MessageMarshaller (p. 1868),
activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1904),
activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2092),
activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2133),
activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2191), **activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller** (p. 2204),
activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller (p. 2220), **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2248),
activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2314), **activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller** (p. 2362), and
activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2600).

6.84.3.4 virtual void ac-

```

activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller::tightMarshal2
(OpenWireFormat * wireFormat, commands::DataStructure
* dataStructure, decaf::io::DataOutputStream * dataOut,
utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
  
```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller** (p. 154), **activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller** (p. 181), **activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller** (p. 270), **activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller** (p. 285), **activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller** (p. 316), **activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller** (p. 390), **activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller** (p. 456), **activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller** (p. 618), **activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller** (p. 953), **activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller** (p. 969), **activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller** (p. 1006),

activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller (p. 1036),
 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller (p. 1073),
 activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller (p. 1094),
 activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller (p. 1107),
 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (p. 1138),
 activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (p. 1202),
 activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller (p. 1282),
 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (p. 1367),
 activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (p. 1456),
 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1561),
 activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller (p. 1790),
 activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller (p. 1818),
 activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller
 (p. 1840), activemq::wireformat::openwire::marshal::v3::MessageMarshaller (p. 1869),
 activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1905),
 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2093),
 activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2134),
 activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2192),
 activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller
 (p. 2205), activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller
 (p. 2221), activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (p. 2249),
 activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2315),
 activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (p. 2363), and
 activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2601).

6.84.3.5 virtual void ac-
 tivemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller::tightUnmarshal
 (OpenWireFormat * *wireFormat*, commands::DataStructure *
dataStructure, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream
 * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1169).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller`
 (p. 154), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller`
 (p. 181), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller`
 (p. 270), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller`
 (p. 285), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller`
 (p. 316), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller`
 (p. 390), `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller`

(p. 456), `activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller` (p. 618), `activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller` (p. 953), `activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller` (p. 969), `activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller` (p. 1006), `activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller` (p. 1036), `activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller` (p. 1073), `activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller` (p. 1094), `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1107), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1138), `activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller` (p. 1202), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1282), `activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller` (p. 1367), `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1456), `activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller` (p. 1561), `activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller` (p. 1790), `activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller` (p. 1818), `activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller` (p. 1840), `activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1869), `activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller` (p. 1905), `activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller` (p. 2093), `activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller` (p. 2134), `activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller` (p. 2192), `activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller` (p. 2205), `activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller` (p. 2221), `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2250), `activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller` (p. 2315), `activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller` (p. 2363), and `activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller` (p. 2601).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h`

6.85 activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 521).

#include <src/main/activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller:

Public Member Functions

- **BaseCommandMarshaller** ()
- virtual **~BaseCommandMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.85.1 Detailed Description

Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 521). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.85.2 Constructor & Destructor Documentation

- 6.85.2.1 `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller::BaseCommandMarshaller()` [inline]
- 6.85.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller::~~BaseCommandMarshaller()` [inline, virtual]

6.85.3 Member Function Documentation

- 6.85.3.1 `virtual void` `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut)` throw (`decaf::io::IOException`) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 156), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 183), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 272), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 287), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 318), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 392), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 458), `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 620), `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 955), `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 971), `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1008), `activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller` (p. 1038), `activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller` (p. 1075), `activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller` (p. 1088), `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1109), `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1140), `activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller` (p. 1204), `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1284), `activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller` (p. 1361), `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1450), `activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller` (p. 1567), `activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller` (p. 1792), `activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller` (p. 1820), `activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller`

(p. 1834), [activemq::wireformat::openwire::marshal::v1::MessageMarshaller](#) (p. 1872), [activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller](#) (p. 1907), [activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller](#) (p. 2095), [activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller](#) (p. 2136), [activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller](#) (p. 2186), [activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller](#) (p. 2207), [activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller](#) (p. 2223), [activemq::wireformat::openwire::marshal::v1::ResponseMarshaller](#) (p. 2252), [activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller](#) (p. 2305), [activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller](#) (p. 2357), and [activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller](#) (p. 2603).

6.85.3.2 virtual void activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller::looseUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataIn* - BinaryReader that provides that data source

Exceptions:

- IOException* if an error occurs during the unmarshal.

Implements [activemq::wireformat::openwire::marshal::DataStreamMarshaller](#) (p. 1158).

Reimplemented in [activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller](#) (p. 157), [activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller](#) (p. 184), [activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller](#) (p. 273), [activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller](#) (p. 288), [activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller](#) (p. 319), [activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller](#) (p. 393), [activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller](#) (p. 459), [activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller](#) (p. 621), [activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller](#) (p. 956), [activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller](#) (p. 972), [activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller](#) (p. 1009), [activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller](#) (p. 1039), [activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller](#) (p. 1076), [activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller](#) (p. 1089), [activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller](#) (p. 1110), [activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller](#) (p. 1141), [activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller](#) (p. 1205), [activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller](#) (p. 1285), [activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller](#) (p. 1362), [activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller](#) (p. 1451), [activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller](#) (p. 1568),

`activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller` (p. 1793), `activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller` (p. 1821), `activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller` (p. 1835), `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872), `activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller` (p. 1908), `activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller` (p. 2096), `activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller` (p. 2137), `activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller` (p. 2187), `activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller` (p. 2208), `activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller` (p. 2224), `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2253), `activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller` (p. 2306), `activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller` (p. 2358), and `activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller` (p. 2604).

6.85.3.3 `virtual int activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller::tightMarshal1(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 157), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 184), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 273), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 288), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 319), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 393), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 459), `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 621), `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 956), `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 972), `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1009), `activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller` (p. 1039), `activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller` (p. 1076), `activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller` (p. 1089), `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1110),

activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller (p. 1141),
 activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller (p. 1205),
 activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller (p. 1285),
 activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller (p. 1362),
 activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller (p. 1451),
 activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller (p. 1568),
 activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller (p. 1793),
 activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller (p. 1821),
 activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller
 (p. 1835), activemq::wireformat::openwire::marshal::v1::MessageMarshaller (p. 1873),
 activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (p. 1908),
 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (p. 2096),
 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2137),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2187),
 activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2208), activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2224), activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2253),
 activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2306),
 activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2358), and
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2604).

6.85.3.4 virtual void ac-

```

    tivemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller::tightMarshal2
    (OpenWireFormat * wireFormat, commands::DataStructure
     * dataStructure, decaf::io::DataOutputStream * dataOut,
     utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
  
```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller**
 (p. 158), **activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller**
 (p. 185), **activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller**
 (p. 274), **activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller**
 (p. 289), **activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller**
 (p. 320), **activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller**
 (p. 394), **activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller**
 (p. 460), **activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller** (p. 622),
activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller (p. 957),
activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller (p. 973),
activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller (p. 1010),

activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller (p. 1040),
 activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller (p. 1077),
 activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller (p. 1090),
 activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller (p. 1111),
 activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller (p. 1142),
 activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller (p. 1206),
 activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller (p. 1286),
 activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller (p. 1363),
 activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller (p. 1452),
 activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller (p. 1569),
 activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller (p. 1794),
 activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller (p. 1822),
 activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller
 (p. 1836), activemq::wireformat::openwire::marshal::v1::MessageMarshaller (p. 1874),
 activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (p. 1909),
 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (p. 2097),
 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2138),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2188),
 activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2209), activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2225), activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2254),
 activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2307),
 activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2359), and
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2605).

6.85.3.5 virtual void ac-
 tivemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller::tightUnmarshal
 (OpenWireFormat * *wireFormat*, commands::DataStructure *
dataStructure, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream
 * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1169).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller`
 (p. 158), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller`
 (p. 185), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller`
 (p. 274), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller`
 (p. 289), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller`
 (p. 320), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller`
 (p. 394), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller`

(p. 460), `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 622), `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 957), `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 973), `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1010), `activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller` (p. 1040), `activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller` (p. 1077), `activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller` (p. 1090), `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1111), `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1142), `activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller` (p. 1206), `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1286), `activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller` (p. 1363), `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1452), `activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller` (p. 1569), `activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller` (p. 1794), `activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller` (p. 1822), `activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller` (p. 1836), `activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1874), `activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller` (p. 1909), `activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller` (p. 2097), `activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller` (p. 2138), `activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller` (p. 2188), `activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller` (p. 2209), `activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller` (p. 2225), `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2255), `activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller` (p. 2307), `activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller` (p. 2359), and `activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller` (p. 2605).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h`

6.86 activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 528).

#include <src/main/activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller:

Public Member Functions

- **BaseCommandMarshaller** ()
- virtual **~BaseCommandMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.86.1 Detailed Description

Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 528). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.86.2 Constructor & Destructor Documentation

- 6.86.2.1 `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller::BaseCommandMarshaller()` [inline]
- 6.86.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller::~~BaseCommandMarshaller()` [inline, virtual]

6.86.3 Member Function Documentation

- 6.86.3.1 `virtual void` `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller` (p. 160), `activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller` (p. 187), `activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller` (p. 276), `activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller` (p. 291), `activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller` (p. 322), `activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller` (p. 396), `activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller` (p. 462), `activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller` (p. 624), `activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller` (p. 959), `activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller` (p. 975), `activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller` (p. 1012), `activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller` (p. 1042), `activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller` (p. 1079), `activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller` (p. 1096), `activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller` (p. 1113), `activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller` (p. 1144), `activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller` (p. 1208), `activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller` (p. 1288), `activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller` (p. 1369), `activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller` (p. 1446), `activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller` (p. 1563), `activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller` (p. 1784), `activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller` (p. 1812), `activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller`

(p. 1830), `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1862), `activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller` (p. 1899), `activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller` (p. 2099), `activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller` (p. 2128), `activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller` (p. 2182), `activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller` (p. 2199), `activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller` (p. 2215), `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242), `activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller` (p. 2309), `activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller` (p. 2353), and `activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller` (p. 2595).

6.86.3.2 virtual void ac-

`activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller::looseUnmarshal`
 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (
 decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller` (p. 161), `activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller` (p. 188), `activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller` (p. 277), `activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller` (p. 292), `activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller` (p. 323), `activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller` (p. 397), `activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller` (p. 463), `activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller` (p. 625), `activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller` (p. 960), `activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller` (p. 976), `activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller` (p. 1013), `activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller` (p. 1043), `activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller` (p. 1080), `activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller` (p. 1097), `activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller` (p. 1114), `activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller` (p. 1145), `activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller` (p. 1209), `activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller` (p. 1289), `activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller` (p. 1370), `activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller` (p. 1447), `activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller` (p. 1564),

activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller (p. 1785), activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller (p. 1813), activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller (p. 1831), activemq::wireformat::openwire::marshal::v2::MessageMarshaller (p. 1862), activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1900), activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2100), activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2129), activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2183), activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller (p. 2200), activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller (p. 2216), activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (p. 2243), activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2310), activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (p. 2354), and activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (p. 2596).

6.86.3.3 virtual int activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller::tightMarshal1 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller** (p. 161), **activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller** (p. 188), **activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller** (p. 277), **activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller** (p. 292), **activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller** (p. 323), **activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller** (p. 397), **activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller** (p. 463), **activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller** (p. 625), **activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller** (p. 960), **activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller** (p. 976), **activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller** (p. 1013), **activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller** (p. 1043), **activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller** (p. 1080), **activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller** (p. 1097), **activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller** (p. 1114),

activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1145),
activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1209), **activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller** (p. 1289),
activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1370),
activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1447),
activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1564),
activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller (p. 1785), **activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller** (p. 1813), **activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller** (p. 1831), **activemq::wireformat::openwire::marshal::v2::MessageMarshaller** (p. 1863),
activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1900),
activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2100),
activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2129),
activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2183), **activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller** (p. 2200), **activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller** (p. 2216), **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2243),
activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2310), **activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller** (p. 2354), and **activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller** (p. 2596).

6.86.3.4 virtual void ac-

```

activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller::tightMarshal2
(OpenWireFormat * wireFormat, commands::DataStructure
* dataStructure, decaf::io::DataOutputStream * dataOut,
utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
  
```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller** (p. 162), **activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller** (p. 189), **activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller** (p. 278), **activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller** (p. 293), **activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller** (p. 324), **activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller** (p. 398), **activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller** (p. 464), **activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller** (p. 626), **activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller** (p. 961), **activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller** (p. 977), **activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller** (p. 1014),

activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (p. 1044),
 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (p. 1081),
 activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (p. 1098),
 activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (p. 1115),
 activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1146),
 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1210),
 activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (p. 1290),
 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1371),
 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1448),
 activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1565),
 activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller (p. 1786),
 activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller (p. 1814),
 activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller
 (p. 1832), activemq::wireformat::openwire::marshal::v2::MessageMarshaller (p. 1864),
 activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1901),
 activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2101),
 activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2130),
 activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2184),
 activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller
 (p. 2201), activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller
 (p. 2217), activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (p. 2244),
 activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2311),
 activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (p. 2355), and
 activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (p. 2597).

6.86.3.5 virtual void activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller::tightUnmarshal
 (OpenWireFormat * *wireFormat*, commands::DataStructure *
dataStructure, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream
 * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

- IOException* if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller**
 (p. 162), **activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller**
 (p. 189), **activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller**
 (p. 278), **activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller**
 (p. 293), **activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller**
 (p. 324), **activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller**
 (p. 398), **activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller**

(p. 464), `activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller` (p. 626), `activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller` (p. 961), `activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller` (p. 977), `activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller` (p. 1014), `activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller` (p. 1044), `activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller` (p. 1081), `activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller` (p. 1098), `activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller` (p. 1115), `activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller` (p. 1146), `activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller` (p. 1210), `activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller` (p. 1290), `activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller` (p. 1371), `activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller` (p. 1448), `activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller` (p. 1565), `activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller` (p. 1786), `activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller` (p. 1814), `activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller` (p. 1832), `activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1864), `activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller` (p. 1901), `activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller` (p. 2101), `activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller` (p. 2130), `activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller` (p. 2184), `activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller` (p. 2201), `activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller` (p. 2217), `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2245), `activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller` (p. 2311), `activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller` (p. 2355), and `activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller` (p. 2597).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h`

6.87 activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller Class Reference

Base class for all Marshallers that **marshal** (p. 76) DataStructures to and from the wire using the OpenWire protocol.

```
#include <src/main/activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
```

Inherits **activemq::wireformat::openwire::marshal::DataStreamMarshaller**.

Inherited by **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller**,

activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller,

activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller,

activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller,

activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller,

activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::SessionIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller,

activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller,

activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller,

activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller,

activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller,

activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::SessionIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller, ac-

tivemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller,

activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller,

activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller, ac-

tivemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller, ac-

tivemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller, ac-

tivemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller, ac-

```

tivemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller,      ac-
tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller,
activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller,        ac-
tivemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller,
activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller,
activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller,      ac-
tivemq::wireformat::openwire::marshal::v3::SessionIdMarshaller,          ac-
tivemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller,   ac-
tivemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller,      and ac-
tivemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller.

```

Public Member Functions

- virtual `~BaseDataStreamMarshaller()`
- virtual `int tightMarshal1 (OpenWireFormat *format AMQCPP_UNUSED, commands::DataStructure *command AMQCPP_UNUSED, utils::BooleanStream *bs AMQCPP_UNUSED) throw (decaf::io::IOException)`
Tight Marshal to the given stream.
- virtual `void tightMarshal2 (OpenWireFormat *format AMQCPP_UNUSED, commands::DataStructure *command AMQCPP_UNUSED, decaf::io::DataOutputStream *ds AMQCPP_UNUSED, utils::BooleanStream *bs AMQCPP_UNUSED) throw (decaf::io::IOException)`
Tight Marshal to the given stream.
- virtual `void tightUnmarshal (OpenWireFormat *format AMQCPP_UNUSED, commands::DataStructure *command AMQCPP_UNUSED, decaf::io::DataInputStream *dis AMQCPP_UNUSED, utils::BooleanStream *bs AMQCPP_UNUSED) throw (decaf::io::IOException)`
Tight Un-Marshal to the given stream.
- virtual `void looseMarshal (OpenWireFormat *format AMQCPP_UNUSED, commands::DataStructure *command AMQCPP_UNUSED, decaf::io::DataOutputStream *ds AMQCPP_UNUSED) throw (decaf::io::IOException)`
Tight Marshal to the given stream.
- virtual `void looseUnmarshal (OpenWireFormat *format AMQCPP_UNUSED, commands::DataStructure *command AMQCPP_UNUSED, decaf::io::DataInputStream *dis AMQCPP_UNUSED) throw (decaf::io::IOException)`
Loose Un-Marshal to the given stream.

Static Public Member Functions

- static `std::string toString (const commands::MessageId *id)`
Converts the object to a String.
- static `std::string toString (const commands::ProducerId *id)`
Converts the object to a String.

- static std::string **toString** (const **commands::TransactionId** *txnId)
Converts the given transaction ID into a String.
- static std::string **toHexFromBytes** (const std::vector< unsigned char > &data)
given an array of bytes, convert that array to a Hexidecimal coded string that represents that data.

Protected Member Functions

- virtual **commands::DataStructure** * **tightUnmarshalCachedObject** (**OpenWireFormat** *wireFormat, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tight Unmarshal the cached object.
- virtual int **tightMarshalCachedObject1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *data, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tightly marshals the passed DataStructure based object to the passed BooleanStream returning the size of the data marshaled.
- virtual void **tightMarshalCachedObject2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *data, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tightly marshals the passed DataStructure based object to the passed streams returning nothing.
- virtual void **looseMarshalCachedObject** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *data, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Loosely marshals the passed DataStructure based object to the passed stream returning nothing.
- virtual **commands::DataStructure** * **looseUnmarshalCachedObject** (**OpenWireFormat** *wireFormat, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Loose Unmarshal the cached object.
- virtual int **tightMarshalNestedObject1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *object, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tightly marshals the passed DataStructure based object to the passed BooleanStream returning the size of the data marshaled.
- virtual void **tightMarshalNestedObject2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *object, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tightly marshals the passed DataStructure based object to the passed streams returning nothing.
- virtual **commands::DataStructure** * **tightUnmarshalNestedObject** (**OpenWireFormat** *wireFormat, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tight Unmarshal the nested object.

- virtual **commands::DataStructure * looseUnmarshalNestedObject** (**OpenWireFormat *wireFormat**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)

Loose Unmarshal the nested object.

- virtual void **looseMarshalNestedObject** (**OpenWireFormat *wireFormat**, **commands::DataStructure *object**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)

Loose marshal the nested object.

- virtual std::string **tightUnmarshalString** (**decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)

Performs Tight Unmarshaling of String Objects.

- virtual int **tightMarshalString1** (const std::string &value, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)

Tight Marshals the String to a Booleans Stream Object, returns the marshaled size.

- virtual void **tightMarshalString2** (const std::string &value, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)

Tight Marshals the passed string to the streams passed.

- virtual void **looseMarshalString** (const std::string value, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)

Loose Marshal the String to the DataOuputStream passed.

- virtual std::string **looseUnmarshalString** (**decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)

Loose Un-Marshal the String to the DataOuputStream passed.

- virtual int **tightMarshalLong1** (**OpenWireFormat *wireFormat**, long long value, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)

Tightly marshal (p. 76) the long long to the BooleanStream passed.

- virtual void **tightMarshalLong2** (**OpenWireFormat *wireFormat**, long long value, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)

Tightly marshal (p. 76) the long long to the Streams passed.

- virtual long long **tightUnmarshalLong** (**OpenWireFormat *wireFormat**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)

Tight marshal (p. 76) the long long type.

- virtual void **looseMarshalLong** (**OpenWireFormat *wireFormat**, long long value, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)

Tightly marshal (p. 76) the long long to the BooleanStream passed.

- virtual long long **looseUnmarshalLong** (**OpenWireFormat** *wireFormat, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Loose marshal (p. 76) the long long type.
- virtual std::vector< unsigned char > **tightUnmarshalByteArray** (**decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tight Unmarshal an array of char.
- virtual std::vector< unsigned char > **looseUnmarshalByteArray** (**decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Loose Unmarshal an array of char.
- virtual std::vector< unsigned char > **tightUnmarshalConstByteArray** (**decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs, int size) throw (**decaf::io::IOException**)
Tight Unmarshal a fixed size array from that data input stream and return an stl vector of char as the resultant.
- virtual std::vector< unsigned char > **looseUnmarshalConstByteArray** (**decaf::io::DataInputStream** *dataIn, int size) throw (**decaf::io::IOException**)
Tight Unmarshal a fixed size array from that data input stream and return an stl vector of char as the resultant.
- virtual **commands::DataStructure** * **tightUnmarshalBrokerError** (**OpenWireFormat** *wireFormat, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tight Unmarshal the Error object.
- virtual int **tightMarshalBrokerError1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *data, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tight Marshal the Error object.
- virtual void **tightMarshalBrokerError2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *data, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Tight Marshal the Error object.
- virtual **commands::DataStructure** * **looseUnmarshalBrokerError** (**OpenWireFormat** *wireFormat, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Loose Unmarshal the Error object.
- virtual void **looseMarshalBrokerError** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *data, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Tight Marshal the Error object.
- template<typename T >
int **tightMarshalObjectArray1** (**OpenWireFormat** *wireFormat, std::vector< T > objects, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Tightly Marshal an array of DataStructure objects to the provided boolean stream, and return the size that the tight marshalling is going to take.

- `template<typename T >`
`void tightMarshalObjectArray2 (OpenWireFormat *wireFormat, std::vector< T > objects, decaf::io::DataOutputStream *dataOut, utils::BooleanStream *bs) throw (decaf::io::IOException)`

Tightly Marshal an array of DataStructure objects to the provided boolean stream and data output stream.

- `template<typename T >`
`void looseMarshalObjectArray (OpenWireFormat *wireFormat, std::vector< T > objects, decaf::io::DataOutputStream *dataOut) throw (decaf::io::IOException)`

Loosely Marshal an array of DataStructure objects to the provided boolean stream and data output stream.

- `virtual std::string readAsciiString (decaf::io::DataInputStream *dataIn) throw (decaf::io::IOException)`

Given an DataInputStream read a know ASCII formatted string from the input and return that string.

6.87.1 Detailed Description

Base class for all Marshallers that **marshal** (p. 76) DataStructures to and from the wire using the OpenWire protocol.

Since:

2.0

6.87.2 Constructor & Destructor Documentation

- 6.87.2.1 `virtual`
`activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::~BaseDataStreamMarshaller() [inline, virtual]`

6.87.3 Member Function Documentation

- 6.87.3.1 `virtual void` `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshal`
`(OpenWireFormat *format AMQCPP_UNUSED,
commands::DataStructure *command AMQCPP_UNUSED,
decaf::io::DataOutputStream *ds AMQCPP_UNUSED) throw (decaf::io::IOException) [inline, virtual]`

Tight Marshal to the given stream.

Parameters:

format - The OpenwireFormat properties

command - the object to Marshal

ds - DataOutputStream to **marshal** (p. 76) to

Exceptions:

IOException if an error occurs.

6.87.3.2 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalBrokerError (OpenWireFormat * *wireFormat*, commands::DataStructure * *data*, decaf::io::DataOutputStream * *dataOut*) throw (decaf::io::IOException)
[protected, virtual]

Tight Marshal the Error object.

Parameters:

wireFormat - The OpenwireFormat properties

data - Error to Marshal

dataOut - stream to write marshalled data to

Exceptions:

IOException if an error occurs.

6.87.3.3 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalCachedObject (OpenWireFormat * *wireFormat*, commands::DataStructure * *data*, decaf::io::DataOutputStream * *dataOut*) throw (decaf::io::IOException)
[protected, virtual]

Loosely marshals the passed DataStructure based object to the passed stream returning nothing.

Parameters:

wireFormat - The OpenwireFormat properties

data - DataStructure Object Pointer to **marshal** (p. 76)

dataOut - stream to write marshaled data to

Exceptions:

IOException if an error occurs.

6.87.3.4 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalLong (OpenWireFormat * *wireFormat*, long long *value*, decaf::io::DataOutputStream * *dataOut*) throw (decaf::io::IOException)
[protected, virtual]

Tightly **marshal** (p. 76) the long long to the BooleanStream passed.

Parameters:

wireFormat - The OpenwireFormat properties
value - long long to **marshal** (p. 76)
dataOut - DataOutputStream to **marshal** (p. 76) to.

Exceptions:

IOException if an error occurs.

6.87.3.5 `virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalNestedObject(OpenWireFormat * wireFormat, commands::DataStructure * object, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)`
 [protected, virtual]

Loose marshal the nested object.

Parameters:

wireFormat - The OpenwireFormat properties
object - DataStructure Object Pointer to **marshal** (p. 76)
dataOut - stream to write marshaled data to

Exceptions:

IOException if an error occurs.

6.87.3.6 `template<typename T > void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalObjectArray(OpenWireFormat * wireFormat, std::vector< T > objects, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)`
 [inline, protected]

Loosely Marshal an array of DataStructure objects to the provided boolean stream and data output stream.

Parameters:

wireFormat - The OpenwireFormat properties
objects - array of DataStructure object pointers.
dataOut - stream to write marshalled data to

Returns:

size of the marshalled data

Exceptions:

IOException if an error occurs.

References AMQ_CATCH_EXCEPTION_CONVERT, AMQ_CATCH_RETHROW, and AMQ_CATCHALL_THROW.

6.87.3.7 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalString (const std::string *value*, decaf::io::DataOutputStream * *dataOut*) throw (decaf::io::IOException) [protected, virtual]

Loose Marshal the String to the DataOutputStream passed.

Parameters:

value - string to **marshal** (p. 76)
dataOut - stream to write marshaled form to

Exceptions:

IOException if an error occurs.

6.87.3.8 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshal (OpenWireFormat **format* *AMQCPP_UNUSED*, commands::DataStructure **command* *AMQCPP_UNUSED*, decaf::io::DataInputStream **dis* *AMQCPP_UNUSED*) throw (decaf::io::IOException) [inline, virtual]

Loose Un-Marshal to the given stream.

Parameters:

format - The OpenWireFormat properties
command - the object to Un-Marshal
dis - the DataInputStream to Un-Marshal from

Exceptions:

IOException if an error occurs.

6.87.3.9 virtual commands::DataStructure* activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshalBroken (OpenWireFormat * *wireFormat*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [protected, virtual]

Loose Unarshal the Error object.

Parameters:

wireFormat - The OpenWireFormat properties
dataIn - stream to read marshalled form from

Returns:

pointer to a new DataStructure Object

Exceptions:

IOException if an error occurs.

6.87.3.10 `virtual std::vector<unsigned char> activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshalBytes(
(decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)
[protected, virtual]`

Loose Unmarshal an array of char.

Parameters:

dataIn - the DataInputStream to Un-Marshall from

Returns:

the unmarshalled vector of chars.

Exceptions:

IOException if an error occurs.

6.87.3.11 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshalCachedObject(
(OpenWireFormat * wireFormat, decaf::io::DataInputStream * dataIn)
throw (decaf::io::IOException) [protected, virtual]`

Loose Unmarshal the cached object.

Parameters:

wireFormat - The OpenwireFormat properties

dataIn - stream to read marshaled form from

Returns:

pointer to a new DataStructure Object

Exceptions:

IOException if an error occurs.

6.87.3.12 `virtual std::vector<unsigned char> activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshalConstArray(
(decaf::io::DataInputStream * dataIn, int size) throw (decaf::io::IOException) [protected, virtual]`

Tight Unmarshal a fixed size array from that data input stream and return an stl vector of char as the resultant.

Parameters:

dataIn - the DataInputStream to Un-Marshall from

size - size of the const array to unmarshal

Returns:

the unmarshaled vector of chars.

Exceptions:

IOException if an error occurs.

6.87.3.13 virtual long long activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshalLong (OpenWireFormat * *wireFormat*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [protected, virtual]

Loose marshal (p. 76) the long long type.

Parameters:

wireFormat - The OpenWireFormat properties

dataIn - stream to read marshaled form from

Returns:

the unmarshaled long long

Exceptions:

IOException if an error occurs.

6.87.3.14 virtual commands::DataStructure* activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshalNested (OpenWireFormat * *wireFormat*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [protected, virtual]

Loose Unmarshal the nested object.

Parameters:

wireFormat - The OpenWireFormat properties

dataIn - stream to read marshaled form from

Returns:

pointer to a new DataStructure Object

Exceptions:

IOException if an error occurs.

6.87.3.15 virtual std::string activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseUnmarshalString (decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [protected, virtual]

Loose Un-Marshal the String to the DataOutputStream passed.

Parameters:

dataIn - stream to read marshaled form from

Returns:

the unmarshaled string

Exceptions:

IOException if an error occurs.

6.87.3.16 `virtual std::string activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::readAsciiString (decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)`
[protected, virtual]

Given an DataInputStream read a know ASCII formatted string from the input and return that string.

Parameters:

dataIn - DataInputStream to read from

Returns:

string value read from stream

6.87.3.17 `virtual int activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshal1 (OpenWireFormat *format AMQCPP_UNUSED, commands::DataStructure *command AMQCPP_UNUSED, utils::BooleanStream *bs AMQCPP_UNUSED) throw (decaf::io::IOException)` [inline, virtual]

Tight Marshal to the given stream.

Parameters:

format - The OpenwireFormat properties

command - the object to Marshal

bs - boolean stream to **marshal** (p. 76) to.

Exceptions:

IOException if an error occurs.

6.87.3.18 `virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshal2 (OpenWireFormat *format AMQCPP_UNUSED, commands::DataStructure *command AMQCPP_UNUSED, decaf::io::DataOutputStream *ds AMQCPP_UNUSED, utils::BooleanStream *bs AMQCPP_UNUSED) throw (decaf::io::IOException)` [inline, virtual]

Tight Marshal to the given stream.

Parameters:

format - The OpenwireFormat properties
command - the object to Marshal
ds - the DataOutputStream to Marshal to
bs - boolean stream to **marshal** (p. 76) to.

Exceptions:

IOException if an error occurs.

6.87.3.19 virtual int activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalBrokerE
(OpenWireFormat * *wireFormat*, commands::DataStructure * *data*,
utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected,
virtual]

Tight Marshal the Error object.

Parameters:

wireFormat - The OpenwireFormat properties
data - Error to Marshal
bs - boolean stream to **marshal** (p. 76) to.

Returns:

size of the marshalled data

Exceptions:

IOException if an error occurs.

6.87.3.20 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalBrokerE
(OpenWireFormat * *wireFormat*, commands::DataStructure * *data*,
decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*)
throw (decaf::io::IOException) [protected, virtual]

Tight Marshal the Error object.

Parameters:

wireFormat - The OpenwireFormat properties
data - Error to Marshal
dataOut - stream to write marshalled data to
bs - boolean stream to **marshal** (p. 76) to.

Exceptions:

IOException if an error occurs.

6.87.3.21 virtual int activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalCachedC (OpenWireFormat * *wireFormat*, commands::DataStructure * *data*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tightly marshals the passed DataStructure based object to the passed BooleanStream returning the size of the data marshaled.

Parameters:

wireFormat - The OpenwireFormat properties
data - DataStructure Object Pointer to **marshal** (p. 76)
bs - boolean stream to **marshal** (p. 76) to.

Returns:

size of data written.

Exceptions:

IOException if an error occurs.

6.87.3.22 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalCachedC (OpenWireFormat * *wireFormat*, commands::DataStructure * *data*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tightly marshals the passed DataStructure based object to the passed streams returning nothing.

Parameters:

wireFormat - The OpenwireFormat properties
data - DataStructure Object Pointer to **marshal** (p. 76)
bs - boolean stream to **marshal** (p. 76) to.
dataOut - stream to write marshaled data to

Exceptions:

IOException if an error occurs.

6.87.3.23 virtual int activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalLong1 (OpenWireFormat * *wireFormat*, long long *value*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tightly **marshal** (p. 76) the long long to the BooleanStream passed.

Parameters:

wireFormat - The OpenwireFormat properties

value - long long to **marshal** (p. 76)
bs - boolean stream to **marshal** (p. 76) to.

Returns:

size of data written.

Exceptions:

IOException if an error occurs.

6.87.3.24 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalLong2 (OpenWireFormat * *wireFormat*, long long *value*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tightly **marshal** (p. 76) the long long to the Streams passed.

Parameters:

wireFormat - The OpenWireFormat properties
value - long long to **marshal** (p. 76)
dataOut - stream to write marshaled form to
bs - boolean stream to **marshal** (p. 76) to.

Exceptions:

IOException if an error occurs.

6.87.3.25 virtual int activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalNestedObject (OpenWireFormat * *wireFormat*, commands::DataStructure * *object*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tightly marshals the passed DataStructure based object to the passed BooleanStream returning the size of the data marshaled.

Parameters:

wireFormat - The OpenWireFormat properties
object - DataStructure Object Pointer to **marshal** (p. 76)
bs - boolean stream to **marshal** (p. 76) to.

Returns:

size of data written.

Exceptions:

IOException if an error occurs.

6.87.3.26 `virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalNestedObject (OpenWireFormat * wireFormat, commands::DataStructure * object, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [protected, virtual]

Tightly marshals the passed DataStructure based object to the passed streams returning nothing.

Parameters:

wireFormat - The OpenwireFormat properties
object - DataStructure Object Pointer to **marshal** (p. 76)
bs - boolean stream to **marshal** (p. 76) to.
dataOut - stream to write marshaled data to

Exceptions:

IOException if an error occurs.

6.87.3.27 `template<typename T > int activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray (OpenWireFormat * wireFormat, std::vector< T > objects, utils::BooleanStream * bs) throw (decaf::io::IOException)` [inline, protected]

Tightly Marshal an array of DataStructure objects to the provided boolean stream, and return the size that the tight marshalling is going to take.

Parameters:

wireFormat - The OpenwireFormat properties
objects - array of DataStructure object pointers.
bs - boolean stream to **marshal** (p. 76) to.

Returns:

size of the marshalled data

Exceptions:

IOException if an error occurs.

References AMQ_CATCH_EXCEPTION_CONVERT, AMQ_CATCH_RETHROW, and AMQ_CATCHALL_THROW.

6.87.3.28 `template<typename T > void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray (OpenWireFormat * wireFormat, std::vector< T > objects, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [inline, protected]

Tightly Marshal an array of DataStructure objects to the provided boolean stream and data output stream.

Parameters:

wireFormat - The OpenwireFormat properties
objects - array of DataStructure object pointers.
dataOut - stream to write marshalled data to
bs - boolean stream to **marshal** (p. 76) to.

Returns:

size of the marshalled data

Exceptions:

IOException if an error occurs.

References AMQ_CATCH_EXCEPTION_CONVERT, AMQ_CATCH_RETHROW, and AMQ_CATCHALL_THROW.

6.87.3.29 virtual int activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalString1 (const std::string & *value*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tight Marshals the String to a Booleans Stream Object, returns the marshaled size.

Parameters:

value - string to **marshal** (p. 76)
bs - BooleanStream to use.

Returns:

size of marshaled string.

Exceptions:

IOException if an error occurs.

6.87.3.30 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalString2 (const std::string & *value*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tight Marshals the passed string to the streams passed.

Parameters:

value - string to **marshal** (p. 76)
dataOut - the DataOutputStream to Marshal to
bs - boolean stream to **marshal** (p. 76) to.

Exceptions:

IOException if an error occurs.

6.87.3.31 virtual void activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshal (OpenWireFormat *format *AMQCPP_UNUSED*, commands::DataStructure *command *AMQCPP_UNUSED*, decaf::io::DataInputStream *dis *AMQCPP_UNUSED*, utils::BooleanStream *bs *AMQCPP_UNUSED*) throw (decaf::io::IOException) [inline, virtual]

Tight Un-Marshall to the given stream.

Parameters:

format - The OpenwireFormat properties
command - the object to Un-Marshall
dis - the DataInputStream to Un-Marshall from
bs - boolean stream to Un-Marshall from.

Exceptions:

IOException if an error occurs.

6.87.3.32 virtual commands::DataStructure* activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshalBroken (OpenWireFormat * *wireFormat*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tight Unmarshall the Error object.

Parameters:

wireFormat - The OpenwireFormat properties
dataIn - stream to read marshalled form from
bs - boolean stream to **marshal** (p. 76) to.

Returns:

pointer to a new DataStructure Object

Exceptions:

IOException if an error occurs.

6.87.3.33 virtual std::vector<unsigned char> activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshalByteArray (decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tight Unmarshal an array of char.

Parameters:

dataIn - the DataInputStream to Un-Marshall from

bs - boolean stream to unmarshal from.

Returns:

the unmarshaled vector of chars.

Exceptions:

IOException if an error occurs.

6.87.3.34 virtual commands::DataStructure* activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshalCache (OpenWireFormat * *wireFormat*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [protected, virtual]

Tight Unmarshal the cached object.

Parameters:

wireFormat - The OpenWireFormat properties

dataIn - stream to read marshaled form from

bs - boolean stream to **marshal** (p. 76) to.

Returns:

pointer to a new DataStructure Object

Exceptions:

IOException if an error occurs.

6.87.3.35 virtual std::vector<unsigned char> activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshalConst (decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*, int *size*) throw (decaf::io::IOException) [protected, virtual]

Tight Unmarshal a fixed size array from that data input stream and return an stl vector of char as the resultant.

Parameters:

dataIn - the DataInputStream to Un-Marshall from

bs - boolean stream to unmarshal from.

size - size of the const array to unmarshal

Returns:

the unmarshaled vector of chars.

Exceptions:

IOException if an error occurs.

6.87.3.36 `virtual long long activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshalLong (OpenWireFormat * wireFormat, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [protected, virtual]

Tight **marshal** (p. 76) the long long type.

Parameters:

wireFormat - The OpenwireFormat properties

dataIn - stream to read marshaled form from

bs - boolean stream to **marshal** (p. 76) to.

Returns:

the unmarshaled long long

Exceptions:

IOException if an error occurs.

6.87.3.37 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshalNested (OpenWireFormat * wireFormat, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [protected, virtual]

Tight Unmarshal the nested object.

Parameters:

wireFormat - The OpenwireFormat properties

dataIn - stream to read marshaled form from

bs - boolean stream to **marshal** (p. 76) to.

Returns:

pointer to a new DataStructure Object

Exceptions:

IOException if an error occurs.

6.87.3.38 `virtual std::string activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightUnmarshalString (decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [protected, virtual]

Performs Tight Unmarshaling of String Objects.

Parameters:

dataIn - the DataInputStream to Un-Marshall from

bs - boolean stream to unmarshal from.

Returns:

the unmarshaled string.

Exceptions:

IOException if an error occurs.

6.87.3.39 static std::string activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::toHexFromBytes (const std::vector< unsigned char > & *data*) [static]

given an array of bytes, convert that array to a Hexidecimal coded string that represents that data.

Parameters:

data - unsigned char data array pointer

Returns:

a string coded in hex that represents the data

6.87.3.40 static std::string activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::toString (const commands::TransactionId * *txnId*) [static]

Converts the given transaction ID into a String.

Parameters:

txnId - TransactionId poitner

Returns:

string representation of the id

6.87.3.41 static std::string activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::toString (const commands::ProducerId * *id*) [static]

Converts the object to a String.

Parameters:

id - ProducerId pointer

Returns:

string representing the id

6.87.3.42 `static std::string activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::toString(const commands::MessageId * id) [static]`

Converts the object to a String.

Parameters:

id - MessageId pointer

Returns:

string representing the id

Referenced by `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getCMSMessageID()`.

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h`

6.88 activemq::commands::BaseDataStructure Class Reference

#include <src/main/activemq/commands/BaseDataStructure.h> Inheritance diagram for activemq::commands::BaseDataStructure:

Public Member Functions

- virtual `~BaseDataStructure ()`
- virtual bool `isMarshalAware ()` const
Determine if this object is aware of marshaling and should have its before and after marshaling methods called.
- virtual void `beforeMarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)`
Perform any processing needed before an marshal.
- virtual void `afterMarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)`
Perform any processing needed after an unmarshal.
- virtual void `beforeUnmarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)`
Perform any processing needed before an unmarshal.
- virtual void `afterUnmarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)`
Perform any processing needed after an unmarshal.
- virtual void `setMarshaledForm (wireformat::WireFormat *wireFormat AMQCPP_UNUSED, const std::vector< char > &data AMQCPP_UNUSED)`
Called to set the data to this object that will contain the objects marshaled form.
- virtual std::vector< unsigned char > `getMarshaledForm (wireformat::WireFormat *wireFormat AMQCPP_UNUSED)`
Called to get the data to this object that will contain the objects marshaled form.
- virtual void `copyDataStructure (const DataStructure *src AMQCPP_UNUSED)`
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string `toString ()` const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool `equals (const DataStructure *value AMQCPP_UNUSED)` const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*

6.88.1 Constructor & Destructor Documentation

6.88.1.1 `virtual activemq::commands::BaseDataStructure::~~BaseDataStructure ()`
`[inline, virtual]`

6.88.2 Member Function Documentation

6.88.2.1 `virtual void activemq::commands::BaseDataStructure::afterMarshal`
`(wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (`
`decaf::io::IOException) [inline, virtual]`

Perform any processing needed after an unmarshal.

Parameters:

wireformat (p. 74) - the OpenWireFormat object in use.

6.88.2.2 `virtual void activemq::commands::BaseDataStructure::afterUnmarshal`
`(wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (`
`decaf::io::IOException) [inline, virtual]`

Perform any processing needed after an unmarshal.

Parameters:

wireformat (p. 74) - the OpenWireFormat object in use.

Reimplemented in `activemq::commands::Message` (p. 1741), and `activemq::commands::WireFormatInfo` (p. 2701).

6.88.2.3 `virtual void activemq::commands::BaseDataStructure::beforeMarshal`
`(wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (`
`decaf::io::IOException) [inline, virtual]`

Perform any processing needed before an marshal.

Parameters:

wireformat (p. 74) - the OpenWireFormat object in use.

Reimplemented in `activemq::commands::Message` (p. 1741), and `activemq::commands::WireFormatInfo` (p. 2702).

6.88.2.4 `virtual void activemq::commands::BaseDataStructure::beforeUnmarshal`
`(wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (`
`decaf::io::IOException) [inline, virtual]`

Perform any processing needed before an unmarshal.

Parameters:

wireformat (p. 74) - the OpenWireFormat object in use.

6.88.2.5 `virtual void activemq::commands::BaseDataStructure::copyDataStructure (const DataStructure *src AMQCPP_UNUSED) [inline, virtual]`

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented in `activemq::commands::BooleanExpression` (p. 579).

6.88.2.6 `virtual bool activemq::commands::BaseDataStructure::equals (const DataStructure *value AMQCPP_UNUSED) const [inline, virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Referenced by `activemq::commands::BooleanExpression::equals()`, and `activemq::commands::BaseCommand::equals()`.

6.88.2.7 `virtual std::vector<unsigned char> activemq::commands::BaseDataStructure::getMarshaledForm (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) [inline, virtual]`

Called to get the data to this object that will contain the objects marshaled form.

Parameters:

wireFormat - the `wireformat` (p. 74) object to control unmarshaling

Returns:

buffer that holds the objects data.

6.88.2.8 `virtual bool activemq::commands::BaseDataStructure::isMarshalAware () const [inline, virtual]`

Determine if this object is aware of marshaling and should have its before and after marshaling methods called. Defaults to false.

Returns:

true if aware of marshaling

Implements `activemq::wireformat::MarshalAware` (p. 1714).

Reimplemented in `activemq::commands::ActiveMQMapMessage` (p. 262), `activemq::commands::ActiveMQStreamMessage` (p. 378), `activemq::commands::Message` (p. 1746), and `activemq::commands::WireFormatInfo` (p. 2704).

6.88.2.9 virtual void activemq::commands::BaseDataStructure::setMarshaledForm (wireformat::WireFormat *wireFormat *AMQCPP_UNUSED*, const std::vector< char > &data *AMQCPP_UNUSED*) [inline, virtual]

Called to set the data to this object that will contain the objects marshaled form.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control unmarshaling

data - vector of object binary data

6.88.2.10 virtual std::string activemq::commands::BaseDataStructure::toString () const [inline, virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Implements **activemq::commands::DataStructure** (p. 1177).

Reimplemented in **activemq::commands::ActiveMQBlobMessage** (p. 150), **activemq::commands::ActiveMQBytesMessage** (p. 173), **activemq::commands::ActiveMQDestination** (p. 237), **activemq::commands::ActiveMQMapMessage** (p. 266), **activemq::commands::ActiveMQMessage** (p. 281), **activemq::commands::ActiveMQObjectMessage** (p. 312), **activemq::commands::ActiveMQQueue** (p. 340), **activemq::commands::ActiveMQStreamMessage** (p. 382), **activemq::commands::ActiveMQTempDestination** (p. 401), **activemq::commands::ActiveMQTempQueue** (p. 418), **activemq::commands::ActiveMQTempTopic** (p. 435), **activemq::commands::ActiveMQTextMessage** (p. 452), **activemq::commands::ActiveMQTopic** (p. 468), **activemq::commands::BaseCommand** (p. 512), **activemq::commands::BooleanExpression** (p. 579), **activemq::commands::BrokerId** (p. 594), **activemq::commands::BrokerInfo** (p. 612), **activemq::commands::Command** (p. 883), **activemq::commands::ConnectionControl** (p. 948), **activemq::commands::ConnectionError** (p. 964), **activemq::commands::ConnectionId** (p. 983), **activemq::commands::ConnectionInfo** (p. 1001), **activemq::commands::ConsumerControl** (p. 1031), **activemq::commands::ConsumerId** (p. 1048), **activemq::commands::ConsumerInfo** (p. 1067), **activemq::commands::ControlCommand** (p. 1085), **activemq::commands::DataArrayResponse** (p. 1103), **activemq::commands::DataResponse** (p. 1134), **activemq::commands::DestinationInfo** (p. 1197), **activemq::commands::DiscoveryEvent** (p. 1215), **activemq::commands::ExceptionResponse** (p. 1278), **activemq::commands::FlushCommand** (p. 1359), **activemq::commands::IntegerResponse** (p. 1444), **activemq::commands::JournalQueueAck** (p. 1493), **activemq::commands::JournalTopicAck** (p. 1510), **activemq::commands::JournalTrace** (p. 1526), **activemq::commands::JournalTransaction** (p. 1541), **activemq::commands::KeepAliveInfo** (p. 1557), **activemq::commands::LastPartialCommand** (p. 1577), **activemq::commands::LocalTransactionId** (p. 1603), **activemq::commands::Message** (p. 1749), **activemq::commands::MessageAck**

(p. 1781), [activemq::commands::MessageDispatch](#) (p. 1803), [activemq::commands::MessageDispatchNotification](#) (p. 1827), [activemq::commands::MessageId](#) (p. 1846), [activemq::commands::MessagePull](#) (p. 1896), [activemq::commands::NetworkBridgeFilter](#) (p. 1926), [activemq::commands::PartialCommand](#) (p. 1997), [activemq::commands::ProducerAck](#) (p. 2088), [activemq::commands::ProducerId](#) (p. 2108), [activemq::commands::ProducerInfo](#) (p. 2125), [activemq::commands::RemoveInfo](#) (p. 2179), [activemq::commands::RemoveSubscriptionInfo](#) (p. 2196), [activemq::commands::ReplayCommand](#) (p. 2212), [activemq::commands::Response](#) (p. 2233), [activemq::commands::SessionId](#) (p. 2287), [activemq::commands::SessionInfo](#) (p. 2302), [activemq::commands::ShutdownInfo](#) (p. 2351), [activemq::commands::SubscriptionInfo](#) (p. 2494), [activemq::commands::TransactionId](#) (p. 2575), [activemq::commands::TransactionInfo](#) (p. 2592), [activemq::commands::WireFormatInfo](#) (p. 2708), and [activemq::commands::XATransactionId](#) (p. 2734).

Referenced by [activemq::commands::BooleanExpression::toString\(\)](#), and [activemq::commands::BaseCommand::toString\(\)](#).

The documentation for this class was generated from the following file:

- [src/main/activemq/commands/BaseDataStructure.h](#)

6.89 `binary_function` Class Reference

Inheritance diagram for `binary_function`:

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Comparator.h`

6.90 decaf::net::BindException Class Reference

#include <src/main/decaf/net/BindException.h> Inheritance diagram for decaf::net::BindException:

Public Member Functions

- **BindException** () throw ()
Default Constructor.
- **BindException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **BindException** (const **BindException** &ex) throw ()
Copy Constructor.
- **BindException** (const char *file, const int lineNumber, const std::exception ***cause**, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **BindException** (const std::exception ***cause**) throw ()
Constructor.
- **BindException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **BindException** * **clone** () const
Clones this exception.
- virtual ~**BindException** () throw ()

6.90.1 Constructor & Destructor Documentation

6.90.1.1 decaf::net::BindException::BindException () throw () [inline]

Default Constructor.

6.90.1.2 decaf::net::BindException::BindException (const Exception & *ex*) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.90.1.3 `decaf::net::BindException::BindException (const BindException & ex)
throw () [inline]`

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.90.1.4 `decaf::net::BindException::BindException (const char * file, const int
lineNumber, const std::exception * cause, const char * msg, ...) throw ()
[inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.90.1.5 `decaf::net::BindException::BindException (const std::exception * cause)
throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.90.1.6 `decaf::net::BindException::BindException (const char * file, const int
lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.90.1.7 `virtual decaf::net::BindException::~~BindException () throw () [inline, virtual]`

6.90.2 Member Function Documentation

6.90.2.1 `virtual BindException* decaf::net::BindException::clone () const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::net::SocketException** (p. 2380).

The documentation for this class was generated from the following file:

- `src/main/decaf/net/BindException.h`

6.91 decaf::io::BlockingByteArrayInputStream Class Reference

This is a blocking version of a byte buffer stream.

#include <src/main/decaf/io/BlockingByteArrayInputStream.h> Inheritance diagram for decaf::io::BlockingByteArrayInputStream:

Public Member Functions

- **BlockingByteArrayInputStream** ()
*Default Constructor - uses a default **internal** (p. 95) buffer.*
- **BlockingByteArrayInputStream** (const unsigned char *buffer, std::size_t bufferSize)
*Constructor that initializes the **internal** (p. 95) buffer.*
- virtual ~**BlockingByteArrayInputStream** ()
Destructor.
- virtual void **setByteArray** (const unsigned char *buffer, std::size_t bufferSize)
Sets the data that this reader uses.
- virtual std::size_t **available** () const throw (IOException)
Indicates the number of bytes available to be read without blocking.
- virtual unsigned char **read** () throw (IOException)
Reads a single byte from the buffer.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize) throw (IOException, lang::exceptions::NullPointerException)
Reads an array of bytes from the buffer.
- virtual void **close** () throw (lang::Exception)
Closes the target input stream.
- virtual std::size_t **skip** (std::size_t num) throw (io::IOException, lang::exceptions::UnsupportedOperationException)
Skips over and discards n bytes of data from this input stream.
- virtual void **mark** (int readLimit DECAF_UNUSED)
Marks the current position in the stream A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes.
- virtual void **reset** () throw (IOException)
Repositions this stream to the position at the time the mark method was last called on this input stream.
- virtual bool **markSupported** () const

Determines if this input stream supports the mark and reset methods.

- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.91.1 Detailed Description

This is a blocking version of a byte buffer stream. Read operations block until the requested data becomes available in the **internal** (p. 95) buffer via a call to `setByteArray`.

6.91.2 Constructor & Destructor Documentation

6.91.2.1 decaf::io::BlockingByteArrayInputStream::BlockingByteArrayInputStream ()

Default Constructor - uses a default **internal** (p. 95) buffer.

6.91.2.2 decaf::io::BlockingByteArrayInputStream::BlockingByteArrayInputStream (const unsigned char * *buffer*, std::size_t *bufferSize*)

Constructor that initializes the **internal** (p. 95) buffer.

See also:

`setByteArray` (p. 570).

6.91.2.3 virtual decaf::io::BlockingByteArrayInputStream::~~BlockingByteArrayInputStream () [virtual]

Destructor.

6.91.3 Member Function Documentation

6.91.3.1 `virtual std::size_t decaf::io::BlockingByteArrayInputStream::available ()
const throw (IOException) [inline, virtual]`

Indicates the number of bytes available to be read without blocking.

Returns:

the data available in the **internal** (p. 95) buffer.

Exceptions:

IOException (p. 1477) if an error occurs.

Implements **decaf::io::InputStream** (p. 1407).

6.91.3.2 `virtual void decaf::io::BlockingByteArrayInputStream::close () throw (
lang::Exception) [virtual]`

Closes the target input stream.

Exceptions:

IOException (p. 1477) if an error occurs.

Implements **decaf::io::Closeable** (p. 840).

6.91.3.3 `virtual void decaf::io::BlockingByteArrayInputStream::lock () throw (
lang::Exception) [inline, virtual]`

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.91.3.4 `virtual void decaf::io::BlockingByteArrayInputStream::mark (int
readLimit DECAF_UNUSED) [inline, virtual]`

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes. If a stream instance reports that marks are supported then the stream will ensure that the same bytes can be read again after the reset method is called so long the readLimit is not reached.

Parameters:

readLimit - max bytes read before marked position is invalid.

Implements **decaf::io::InputStream** (p. 1407).

6.91.3.5 virtual bool decaf::io::BlockingByteArrayInputStream::markSupported () const [inline, virtual]

Determines if this input stream supports the mark and reset methods. Whether or not mark and reset are supported is an invariant property of a particular input stream instance.

Returns:

true if this stream instance supports marks

Implements **decaf::io::InputStream** (p. 1407).

6.91.3.6 virtual void decaf::io::BlockingByteArrayInputStream::notify () throw (lang::Exception) [inline, virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.91.3.7 virtual void decaf::io::BlockingByteArrayInputStream::notifyAll () throw (lang::Exception) [inline, virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.91.3.8 virtual int decaf::io::BlockingByteArrayInputStream::read (unsigned char * *buffer*, std::size_t *offset*, std::size_t *bufferSize*) throw (IOException, lang::exceptions::NullPointerException) [virtual]

Reads an array of bytes from the buffer. If the desired amount of data is not currently available, this operation will block until the appropriate amount of data is available in the buffer via a call to `setByteArray`.

Parameters:

buffer (out) the target buffer

offset the position in the buffer to start from.

bufferSize the size of the output buffer.

Returns:

the number of bytes read. or -1 if EOF

Exceptions:

IOException (p. 1477) if an error occurs.

Implements **decaf::io::InputStream** (p. 1408).

6.91.3.9 virtual unsigned char decaf::io::BlockingByteArrayInputStream::read () throw (**IOException**) [virtual]

Reads a single byte from the buffer. This operation will block until data has been added to the buffer via a call to `setByteArray`.

Returns:

the next byte.

Exceptions:

IOException (p. 1477) if an error occurs.

Implements **decaf::io::InputStream** (p. 1408).

6.91.3.10 virtual void decaf::io::BlockingByteArrayInputStream::reset () throw (**IOException**) [inline, virtual]

Repositions this stream to the position at the time the `mark` method was last called on this input stream. If the method `markSupported` returns true, then: * If the method `mark` has not been called since the stream was created, or the number of bytes read from the stream since `mark` was last called is larger than the argument to `mark` at that last call, then an **IOException** (p. 1477) might be thrown. * If such an **IOException** (p. 1477) is not thrown, then the stream is reset to a state such that all the bytes read since the most recent call to `mark` (or since the start of the file, if `mark` has not been called) will be resupplied to subsequent callers of the `read` method, followed by any bytes that otherwise would have been the next input data as of the time of the call to `reset`. If the method `markSupported` returns false, then: * The call to `reset` may throw an **IOException** (p. 1477). * If an **IOException** (p. 1477) is not thrown, then the stream is reset to a fixed state that depends on the particular type of the input stream and how it was created. The bytes that will be supplied to subsequent callers of the `read` method depend on the particular type of the input stream.

Exceptions:

IOException (p. 1477)

Implements **decaf::io::InputStream** (p. 1408).

6.91.3.11 virtual void decaf::io::BlockingByteArrayInputStream::setByteArray (const unsigned char * *buffer*, std::size_t *bufferSize*) [virtual]

Sets the data that this reader uses. Replaces any existing data and resets the read index to the beginning of the buffer. When this method is called, it notifies any other threads that data is now available to be read.

Parameters:

buffer The new data to be copied to the **internal** (p. 95) buffer.

bufferSize The size of the new buffer.

6.91.3.12 virtual std::size_t decaf::io::BlockingByteArrayInputStream::skip (std::size_t *num*) throw (io::IOException, lang::exceptions::UnsupportedOperationException) [virtual]

Skips over and discards *n* bytes of data from this input stream. The skip method may, for a variety of reasons, end up skipping over some smaller number of bytes, possibly 0. This may result from any of a number of conditions; reaching end of file before *n* bytes have been skipped is only one possibility. The actual number of bytes skipped is returned. If *n* is negative, no bytes are skipped.

The skip method of **InputStream** (p. 1406) creates a byte array and then repeatedly reads into it until *n* bytes have been read or the end of the stream has been reached. Subclasses are encouraged to provide a more efficient implementation of this method.

Parameters:

num - the number of bytes to skip

Returns:

total bytes skipped

Exceptions:

IOException (p. 1477) if an error occurs

Implements **decaf::io::InputStream** (p. 1409).

6.91.3.13 virtual void decaf::io::BlockingByteArrayInputStream::unlock () throw (lang::Exception) [inline, virtual]

Unlocks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

6.91.3.14 virtual void decaf::io::BlockingByteArrayInputStream::wait (unsigned long *milliseconds*) throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.91.3.15 `virtual void decaf::io::BlockingByteArrayInputStream::wait () throw (lang::Exception)` [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2514).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/BlockingByteArrayInputStream.h`

6.92 decaf::lang::Boolean Class Reference

#include <src/main/decaf/lang/Boolean.h> Inheritance diagram for decaf::lang::Boolean:

Public Member Functions

- **Boolean** (bool value)
- **Boolean** (const std::string &value)
- virtual ~**Boolean** ()
- bool **booleanValue** () const
- std::string **toString** () const
- virtual int **compareTo** (const **Boolean** &b) const
*Compares this **Boolean** (p. 573) instance with another.*
- virtual bool **operator==** (const **Boolean** &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Boolean** &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- bool **equals** (const **Boolean** &b) const
- virtual int **compareTo** (const bool &b) const
*Compares this **Boolean** (p. 573) instance with another.*
- virtual bool **operator==** (const bool &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const bool &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- bool **equals** (const bool &b) const

Static Public Member Functions

- static **Boolean** **valueOf** (bool value)
- static **Boolean** **valueOf** (const std::string &value)
- static bool **parseBoolean** (const std::string &value)
Parses the String passed and extracts an bool.
- static std::string **toString** (bool value)
Converts the bool to a String representation.

Static Public Attributes

- static const **Boolean** `_FALSE`

The Class object representing the primitive false boolean.

- static const **Boolean** `_TRUE`

The Class object representing the primitive type boolean.

6.92.1 Constructor & Destructor Documentation

6.92.1.1 `decaf::lang::Boolean::Boolean (bool value)`

Parameters:

value - primitive boolean to wrap.

6.92.1.2 `decaf::lang::Boolean::Boolean (const std::string & value)`

Parameters:

value - String value to convert to a boolean.

6.92.1.3 `virtual decaf::lang::Boolean::~~Boolean ()` [inline, virtual]

6.92.2 Member Function Documentation

6.92.2.1 `bool decaf::lang::Boolean::booleanValue () const` [inline]

Returns:

the primitive boolean value of this object

6.92.2.2 `virtual int decaf::lang::Boolean::compareTo (const bool & b) const` [virtual]

Compares this **Boolean** (p. 573) instance with another.

Parameters:

b - the **Boolean** (p. 573) instance to be compared

Returns:

zero if this object represents the same boolean value as the argument; a positive value if this object represents true and the argument represents false; and a negative value if this object represents false and the argument represents true

Implements `decaf::lang::Comparable< bool >` (p. 899).

6.92.2.3 `virtual int decaf::lang::Boolean::compareTo (const Boolean & b) const`
[virtual]

Compares this **Boolean** (p. 573) instance with another.

Parameters:

b - the **Boolean** (p. 573) instance to be compared

Returns:

zero if this object represents the same boolean value as the argument; a positive value if this object represents true and the argument represents false; and a negative value if this object represents false and the argument represents true

6.92.2.4 `bool decaf::lang::Boolean::equals (const bool & b) const` [inline, virtual]**Returns:**

true if the two **Boolean** (p. 573) Objects have the same value.

Implements **decaf::lang::Comparable**< **bool** > (p. 900).

6.92.2.5 `bool decaf::lang::Boolean::equals (const Boolean & b) const` [inline]**Returns:**

true if the two **Boolean** (p. 573) Objects have the same value.

6.92.2.6 `virtual bool decaf::lang::Boolean::operator< (const bool & value) const`
[virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable**< **bool** > (p. 900).

6.92.2.7 `virtual bool decaf::lang::Boolean::operator< (const Boolean & value) const`
[virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.92.2.8 `virtual bool decaf::lang::Boolean::operator==(const bool & value) const`
[virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements `decaf::lang::Comparable< bool >` (p. 901).

6.92.2.9 `virtual bool decaf::lang::Boolean::operator==(const Boolean & value) const`
[virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.92.2.10 `static bool decaf::lang::Boolean::parseBoolean(const std::string & value)`
[static]

Parses the String passed and extracts an bool.

Parameters:

value The std::string value to parse

Returns:

bool value

6.92.2.11 `static std::string decaf::lang::Boolean::toString(bool value)` [static]

Converts the bool to a String representation.

Parameters:

value The bool value to convert.

Returns:

std::string representation of the bool value passed.

6.92.2.12 `std::string decaf::lang::Boolean::toString () const`**Returns:**

the string representation of this Boolean's value.

6.92.2.13 `static Boolean decaf::lang::Boolean::valueOf (const std::string & value)`
[static]**Parameters:**

value The std::string value to convert to a Boolean (p. 573) instance.

Returns:

a **Boolean** (p. 573) instance of the string value

6.92.2.14 `static Boolean decaf::lang::Boolean::valueOf (bool value)` [static]**Parameters:**

value The bool value to convert to a Boolean (p. 573) instance.

Returns:

a **Boolean** (p. 573) instance of the primitive boolean value

6.92.3 **Field Documentation****6.92.3.1** `const Boolean decaf::lang::Boolean::_FALSE` [static]

The Class object representing the primitive false boolean.

6.92.3.2 `const Boolean decaf::lang::Boolean::_TRUE` [static]

The Class object representing the primitive type boolean.

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**Boolean.h**

6.93 activemq::commands::BooleanExpression Class Reference

#include <src/main/activemq/commands/BooleanExpression.h> Inheritance diagram for activemq::commands::BooleanExpression:

Public Member Functions

- **BooleanExpression** ()
- virtual **~BooleanExpression** ()
- virtual **DataStructure * cloneDataStructure** () const
Clone this obbect and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src AMQCPP_UNUSED)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*

6.93.1 Constructor & Destructor Documentation

- 6.93.1.1** **activemq::commands::BooleanExpression::BooleanExpression** () [inline]
- 6.93.1.2** **virtual activemq::commands::BooleanExpression::~~BooleanExpression** () [inline, virtual]

6.93.2 Member Function Documentation

- 6.93.2.1** **virtual DataStructure* activemq::commands::BooleanExpression::cloneDataStructure** () const [inline, virtual]

Clone this obbect and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

6.93.2.2 virtual void activemq::commands::BooleanExpression::copyDataStructure (const DataStructure *src *AMQCPP_UNUSED*) [inline, virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from **activemq::commands::BaseDataStructure** (p. 559).

6.93.2.3 virtual bool activemq::commands::BooleanExpression::equals (const DataStructure * *value*) const [inline, virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

References **activemq::commands::BaseDataStructure::equals()**.

6.93.2.4 virtual std::string activemq::commands::BooleanExpression::toString () const [inline, virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataStructure** (p. 560).

References **activemq::commands::BaseDataStructure::toString()**.

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/BooleanExpression.h`

6.94 activemq::wireformat::openwire::utils::BooleanStream Class Reference

Manages the writing and reading of boolean data streams to and from a data source such as a `DataInputStream` or `DataOutputStream`.

```
#include <src/main/activemq/wireformat/openwire/utils/BooleanStream.h>
```

Public Member Functions

- **BooleanStream** ()
- virtual **~BooleanStream** ()
- bool **readBoolean** () throw (decaf::io::IOException)
Read a boolean data element from the internal data buffer.
- void **writeBoolean** (bool value) throw (decaf::io::IOException)
Writes a Boolean value to the internal data buffer.
- void **marshal** (decaf::io::DataOutputStream *dataOut) throw (decaf::io::IOException)
Marshal the data to a DataOutputStream.
- void **marshal** (std::vector< unsigned char > &dataOut)
Marshal the data to a STL vector of unsigned chars.
- void **unmarshal** (decaf::io::DataInputStream *dataIn) throw (decaf::io::IOException)
Unmarshal a Boolean data stream from the Input Stream.
- void **clear** ()
Clears to old position markers, data starts at the beginning.
- int **marshalledSize** ()
Calc the size that data is marshalled to.

6.94.1 Detailed Description

Manages the writing and reading of boolean data streams to and from a data source such as a `DataInputStream` or `DataOutputStream`. The booleans are stored as single bits in the stream, with the stream size pre-pended to the stream when the data is marshalled.

The serialized form of the size field can be between 1 and 3 bytes. If the number of used bytes < 64, size=1 byte If the number of used bytes >=64 and < 256 (size of an unsigned byte), size=2 bytes If the number of used bytes >=256, size=3 bytes

The high-order 2 bits (128 and 64) of the first byte of the size field are used to encode the information about the number of bytes in the size field. The only time the first byte will contain a value >=64 is if there are more bytes in the size field. If the first byte < 64, the value of the byte is simply the size value. If the first byte = 0xC0, the following unsigned byte is the size field. If the first byte = 0x80, the following short (two bytes) are the size field.

6.94.2 Constructor & Destructor Documentation

6.94.2.1 `activemq::wireformat::openwire::utils::BooleanStream::BooleanStream ()`

6.94.2.2 `virtual
activemq::wireformat::openwire::utils::BooleanStream::~~BooleanStream ()
[inline, virtual]`

6.94.3 Member Function Documentation

6.94.3.1 `void activemq::wireformat::openwire::utils::BooleanStream::clear ()`

Clears to old position markers, data starts at the beginning.

6.94.3.2 `void activemq::wireformat::openwire::utils::BooleanStream::marshal
(std::vector< unsigned char > & dataOut)`

Marshal the data to a STL vector of unsigned chars.

Parameters:

dataOut - reference to a vector to write the data to.

6.94.3.3 `void activemq::wireformat::openwire::utils::BooleanStream::marshal
(decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)`

Marshal the data to a DataOutputStream.

Parameters:

dataOut - Stream to write the data to.

6.94.3.4 `int activemq::wireformat::openwire::utils::BooleanStream::marshalledSize
()`

Calc the size that data is marshalled to.

Returns:

int size of marshalled data.

6.94.3.5 `bool activemq::wireformat::openwire::utils::BooleanStream::readBoolean
() throw (decaf::io::IOException)`

Read a boolean data element from the internal data buffer.

Returns:

boolean from the stream

6.94.3.6 `void activemq::wireformat::openwire::utils::BooleanStream::unmarshal
(decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)`

Unmarshal a Boolean data stream from the Input Stream.

Parameters:

dataIn - Input Stream to read data from.

6.94.3.7 `void activemq::wireformat::openwire::utils::BooleanStream::writeBoolean
(bool value) throw (decaf::io::IOException)`

Writes a Boolean value to the internal data buffer.

Parameters:

value - boolean data to write.

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/utils/BooleanStream.h`

6.95 decaf::util::concurrent::BrokenBarrierException Class Reference

#include <src/main/decaf/util/concurrent/BrokenBarrierException.h> Inheritance diagram for decaf::util::concurrent::BrokenBarrierException:

Public Member Functions

- **BrokenBarrierException** () throw ()
Default Constructor.
- **BrokenBarrierException** (const decaf::lang::Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **BrokenBarrierException** (const BrokenBarrierException &ex) throw ()
Copy Constructor.
- **BrokenBarrierException** (const std::exception *cause) throw ()
Constructor.
- **BrokenBarrierException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **BrokenBarrierException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **BrokenBarrierException** * clone () const
Clones this exception.
- virtual ~**BrokenBarrierException** () throw ()

6.95.1 Constructor & Destructor Documentation

6.95.1.1 decaf::util::concurrent::BrokenBarrierException::BrokenBarrierException () throw () [inline]

Default Constructor.

6.95.1.2 decaf::util::concurrent::BrokenBarrierException::BrokenBarrierException (const decaf::lang::Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References `decaf::lang::Exception::Exception()`.

6.95.1.3 `decaf::util::concurrent::BrokenBarrierException::BrokenBarrierException (const BrokenBarrierException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex The Exception to copy in this new instance.

References `decaf::lang::Exception::Exception()`.

6.95.1.4 `decaf::util::concurrent::BrokenBarrierException::BrokenBarrierException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.95.1.5 `decaf::util::concurrent::BrokenBarrierException::BrokenBarrierException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs
lineNumber - The line number where the exception occurred.
msg - The message to report
... - list of primitives that are formatted into the message

6.95.1.6 `decaf::util::concurrent::BrokenBarrierException::BrokenBarrierException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs
lineNumber - The line number where the exception occurred.
cause - The exception that was the cause for this one to be thrown.
msg - The message to report
... - list of primitives that are formatted into the message

6.95.1.7 **virtual**
 decaf::util::concurrent::BrokenBarrierException::~~BrokenBarrierException
 () throw () [inline, virtual]

6.95.2 Member Function Documentation

6.95.2.1 **virtual BrokenBarrierException* de-**
 caf::util::concurrent::BrokenBarrierException::clone ()
 const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new instance of an exception that is a clone of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/BrokenBarrierException.h`

6.96 activemq::commands::BrokerError Class Reference

This class represents an Exception sent from the Broker.

#include <src/main/activemq/commands/BrokerError.h> Inheritance diagram for activemq::commands::BrokerError:

Data Structures

- struct **StackTraceElement**

Public Member Functions

- **BrokerError** ()
- virtual **~BrokerError** ()
- virtual unsigned char **getDataStructureType** () const
*Get the **DataStructure** (p. 1174) Type as defined in **CommandTypes.h**.*
- virtual **BrokerError** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual **decaf::lang::Pointer**< **commands::Command** > **visit** (**activemq::state::CommandVisitor** *visitor) throw (**exceptions::ActiveMQException**)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.
- virtual const std::string & **getMessage** () const
Gets the string holding the error message.
- virtual void **setMessage** (const std::string &message)
*Sets the string that contains the error **Message** (p. 1737).*
- virtual const std::string & **getExceptionClass** () const
Gets the string holding the Exception Class name.
- virtual void **setExceptionClass** (const std::string &exceptionClass)
Sets the string that contains the Exception Class name.
- virtual const **decaf::lang::Pointer**< **BrokerError** > & **getCause** () const
Gets the Broker Error that caused this exception.
- virtual void **setCause** (const **decaf::lang::Pointer**< **BrokerError** > &cause)
Sets the Broker Error that caused this exception.

- virtual const std::vector< **decaf::lang::Pointer< StackTraceElement > >** & **getStackTraceElements** () const
Gets the Stack Trace Elements for the Exception.
- virtual void **setStackTraceElements** (const std::vector< **decaf::lang::Pointer< StackTraceElement > >** & stackTraceElements)
Sets the Stack Trace Elements for this Exception.

6.96.1 Detailed Description

This class represents an Exception sent from the Broker. The Broker sends java Throwables, so we must mimic its structure here.

6.96.2 Constructor & Destructor Documentation

6.96.2.1 **activemq::commands::BrokerError::BrokerError** () [inline]

6.96.2.2 **virtual activemq::commands::BrokerError::~~BrokerError** () [virtual]

6.96.3 Member Function Documentation

6.96.3.1 **virtual BrokerError* activemq::commands::BrokerError::cloneDataStructure** ()
const [inline, virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

References **copyDataStructure()**.

6.96.3.2 **virtual void activemq::commands::BrokerError::copyDataStructure** (const **DataStructure * src**) [virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

Referenced by **cloneDataStructure()**.

6.96.3.3 `virtual const decaf::lang::Pointer<BrokerError>&
activemq::commands::BrokerError::getCause () const [inline, virtual]`

Gets the Broker Error that caused this exception.

Returns:

Broker Error Pointer

6.96.3.4 `virtual unsigned char ac-
tivemq::commands::BrokerError::getDataStructureType ()
const [inline, virtual]`

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Implements **activemq::commands::DataStructure** (p. 1176).

6.96.3.5 `virtual const std::string& ac-
tivemq::commands::BrokerError::getExceptionClass ()
const [inline, virtual]`

Gets the string holding the Exception Class name.

Returns:

Exception Class name

6.96.3.6 `virtual const std::string& activemq::commands::BrokerError::getMessage
() const [inline, virtual]`

Gets the string holding the error message.

Returns:

String Message (p. 1737)

6.96.3.7 `virtual const std::vector< decaf::lang::Pointer<StackTraceElement> >&
activemq::commands::BrokerError::getStackTraceElements () const
[inline, virtual]`

Gets the Stack Trace Elements for the Exception.

Returns:

Stack Trace Elements

6.96.3.8 virtual void activemq::commands::BrokerError::setCause (const decaf::lang::Pointer< BrokerError > & *cause*) [inline, virtual]

Sets the Broker Error that caused this exception.

Parameters:

cause - Broker Error

6.96.3.9 virtual void activemq::commands::BrokerError::setExceptionClass (const std::string & *exceptionClass*) [inline, virtual]

Sets the string that contains the Exception Class name.

Parameters:

exceptionClass - String Exception Class name

6.96.3.10 virtual void activemq::commands::BrokerError::setMessage (const std::string & *message*) [inline, virtual]

Sets the string that contains the error **Message** (p.1737).

Parameters:

message - String Error Message (p.1737)

6.96.3.11 virtual void activemq::commands::BrokerError::setStackTraceElements (const std::vector< decaf::lang::Pointer< StackTraceElement > > & *stackTraceElements*) [inline, virtual]

Sets the Stack Trace Elements for this Exception.

Parameters:

stackTraceElements - Stack Trace Elements

6.96.3.12 virtual decaf::lang::Pointer<commands::Command> activemq::commands::BrokerError::visit (activemq::state::CommandVisitor * *visitor*) throw (exceptions::ActiveMQException) [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p.2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p.883).

The documentation for this class was generated from the following file:

- src/main/activemq/commands/**BrokerError.h**

6.97 activemq::exceptions::BrokerException Class Reference

#include <src/main/activemq/exceptions/BrokerException.h> Inheritance diagram for activemq::exceptions::BrokerException:

Public Member Functions

- **BrokerException** () throw ()
- **BrokerException** (const exceptions::ActiveMQException &ex) throw ()
- **BrokerException** (const **BrokerException** &ex) throw ()
- **BrokerException** (const char *file, const int lineNumber, const char *msg,...) throw ()
- **BrokerException** (const char *file, const int lineNumber, const **commands::BrokerError** *error) throw ()
- virtual **BrokerException** * **clone** () const
Clones this exception.
- virtual ~**BrokerException** () throw ()

6.97.1 Constructor & Destructor Documentation

- 6.97.1.1** **activemq::exceptions::BrokerException::BrokerException** () throw ()
[inline]
- 6.97.1.2** **activemq::exceptions::BrokerException::BrokerException** (const exceptions::ActiveMQException & *ex*) throw () [inline]
- 6.97.1.3** **activemq::exceptions::BrokerException::BrokerException** (const **BrokerException** & *ex*) throw () [inline]
- 6.97.1.4** **activemq::exceptions::BrokerException::BrokerException** (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]
- 6.97.1.5** **activemq::exceptions::BrokerException::BrokerException** (const char * *file*, const int *lineNumber*, const **commands::BrokerError** * *error*) throw () [inline]

References decaf::lang::Exception::setMark(), and decaf::lang::Exception::setMessage().

- 6.97.1.6** virtual **activemq::exceptions::BrokerException::~~BrokerException** ()
throw () [inline, virtual]

6.97.2 Member Function Documentation

- 6.97.2.1** virtual **BrokerException*** **activemq::exceptions::BrokerException::clone** ()
const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Reimplemented from `activemq::exceptions::ActiveMQException` (p. 253).

The documentation for this class was generated from the following file:

- `src/main/activemq/exceptions/BrokerException.h`

6.98 activemq::commands::BrokerId Class Reference

#include <src/main/activemq/commands/BrokerId.h> Inheritance diagram for activemq::commands::BrokerId:

Public Types

- typedef decaf::lang::PointerComparator< BrokerId > COMPARATOR

Public Member Functions

- **BrokerId** ()
- **BrokerId** (const **BrokerId** &other)
- virtual ~**BrokerId** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **BrokerId** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const std::string & **getValue** () const
- virtual std::string & **getValue** ()
- virtual void **setValue** (const std::string &value)
- virtual int **compareTo** (const **BrokerId** &value) const
- virtual bool **equals** (const **BrokerId** &value) const
- virtual bool **operator==** (const **BrokerId** &value) const
- virtual bool **operator<** (const **BrokerId** &value) const
- **BrokerId** & **operator=** (const **BrokerId** &other)

Static Public Attributes

- static const unsigned char **ID_BROKERID** = 124

Protected Attributes

- std::string value

6.98.1 Member Typedef Documentation

6.98.1.1 `typedef decaf::lang::PointerComparator<BrokerId>
activemq::commands::BrokerId::COMPARATOR`

6.98.2 Constructor & Destructor Documentation

6.98.2.1 `activemq::commands::BrokerId::BrokerId ()`

6.98.2.2 `activemq::commands::BrokerId::BrokerId (const BrokerId & other)`

6.98.2.3 `virtual activemq::commands::BrokerId::~~BrokerId () [virtual]`

6.98.3 Member Function Documentation

6.98.3.1 `virtual BrokerId* activemq::commands::BrokerId::cloneDataStructure ()
const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.98.3.2 `virtual int activemq::commands::BrokerId::compareTo (const BrokerId &
value) const [virtual]`

6.98.3.3 `virtual void activemq::commands::BrokerId::copyDataStructure (const
DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.98.3.4 `virtual bool activemq::commands::BrokerId::equals (const BrokerId &
value) const [virtual]`

6.98.3.5 `virtual bool activemq::commands::BrokerId::equals (const DataStructure
* value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.98.3.6 `virtual unsigned char activemq::commands::BrokerId::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

6.98.3.7 `virtual std::string& activemq::commands::BrokerId::getValue () [virtual]`

6.98.3.8 `virtual const std::string& activemq::commands::BrokerId::getValue () const [virtual]`

6.98.3.9 `virtual bool activemq::commands::BrokerId::operator< (const BrokerId & value) const [virtual]`

6.98.3.10 `BrokerId& activemq::commands::BrokerId::operator= (const BrokerId & other)`

6.98.3.11 `virtual bool activemq::commands::BrokerId::operator== (const BrokerId & value) const [virtual]`

6.98.3.12 `virtual void activemq::commands::BrokerId::setValue (const std::string & value) [virtual]`

6.98.3.13 `virtual std::string activemq::commands::BrokerId::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataStructure** (p. 560).

6.98.4 Field Documentation

6.98.4.1 `const unsigned char activemq::commands::BrokerId::ID_BROKERID = 124 [static]`

6.98.4.2 `std::string activemq::commands::BrokerId::value [protected]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/BrokerId.h`

6.99 activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 595).

#include <src/main/activemq/wireformat/openwire/marshal/v3/BrokerIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller:

Public Member Functions

- **BrokerIdMarshaller** ()
- virtual **~BrokerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.99.1 Detailed Description

Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 595). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.99.2 Constructor & Destructor Documentation

6.99.2.1 `activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::BrokerIdMarshaller()` [inline]

6.99.2.2 `virtual activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::~~BrokerIdMarshaller()` [inline, virtual]

6.99.3 Member Function Documentation

6.99.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.99.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.99.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.99.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.99.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.99.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.99.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/BrokerIdMarshaller.h`

6.100 activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 599).

#include <src/main/activemq/wireformat/openwire/marshal/v1/BrokerIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller:

Public Member Functions

- **BrokerIdMarshaller** ()
- virtual **~BrokerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.100.1 Detailed Description

Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 599). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.100.2 Constructor & Destructor Documentation

6.100.2.1 `activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::BrokerIdMarshaller()` [inline]

6.100.2.2 `virtual activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::~~BrokerIdMarshaller()` [inline, virtual]

6.100.3 Member Function Documentation

6.100.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.100.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.100.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.100.3.4 virtual void **activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.100.3.5 virtual int **activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.100.3.6 virtual void activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.100.3.7 virtual void activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**BrokerIdMarshaller.h**

6.101 activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 603).

#include <src/main/activemq/wireformat/openwire/marshal/v2/BrokerIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller:

Public Member Functions

- **BrokerIdMarshaller** ()
- virtual **~BrokerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.101.1 Detailed Description

Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 603). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.101.2 Constructor & Destructor Documentation

6.101.2.1 `activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::BrokerIdMarshaller()` [inline]

6.101.2.2 `virtual activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::~~BrokerIdMarshaller()` [inline, virtual]

6.101.3 Member Function Documentation

6.101.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.101.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.101.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.101.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.101.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.101.3.6 virtual void activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.101.3.7 virtual void activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**BrokerIdMarshaller.h**

6.102 activemq::commands::BrokerInfo Class Reference

#include <src/main/activemq/commands/BrokerInfo.h> Inheritance diagram for activemq::commands::BrokerInfo:

Public Member Functions

- **BrokerInfo** ()
- virtual **~BrokerInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **BrokerInfo * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **BrokerId** > & **getBrokerId** () const
- virtual **Pointer**< **BrokerId** > & **getBrokerId** ()
- virtual void **setBrokerId** (const **Pointer**< **BrokerId** > &brokerId)
- virtual const std::string & **getBrokerURL** () const
- virtual std::string & **getBrokerURL** ()
- virtual void **setBrokerURL** (const std::string &brokerURL)
- virtual const std::vector< **decaf::lang::Pointer**< **BrokerInfo** > > & **getPeerBrokerInfos** () const
- virtual std::vector< **decaf::lang::Pointer**< **BrokerInfo** > > & **getPeerBrokerInfos** ()
- virtual void **setPeerBrokerInfos** (const std::vector< **decaf::lang::Pointer**< **BrokerInfo** > > &peerBrokerInfos)
- virtual const std::string & **getBrokerName** () const
- virtual std::string & **getBrokerName** ()
- virtual void **setBrokerName** (const std::string &brokerName)
- virtual bool **isSlaveBroker** () const
- virtual void **setSlaveBroker** (bool slaveBroker)
- virtual bool **isMasterBroker** () const
- virtual void **setMasterBroker** (bool masterBroker)
- virtual bool **isFaultTolerantConfiguration** () const
- virtual void **setFaultTolerantConfiguration** (bool faultTolerantConfiguration)
- virtual bool **isDuplexConnection** () const
- virtual void **setDuplexConnection** (bool duplexConnection)

- virtual bool **isNetworkConnection** () const
- virtual void **setNetworkConnection** (bool **networkConnection**)
- virtual long long **getConnectionId** () const
- virtual void **setConnectionId** (long long **connectionId**)
- virtual const std::string & **getBrokerUploadUrl** () const
- virtual std::string & **getBrokerUploadUrl** ()
- virtual void **setBrokerUploadUrl** (const std::string &**brokerUploadUrl**)
- virtual const std::string & **getNetworkProperties** () const
- virtual std::string & **getNetworkProperties** ()
- virtual void **setNetworkProperties** (const std::string &**networkProperties**)
- virtual bool **isBrokerInfo** () const
- virtual **Pointer< Command > visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)

Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_BROKERINFO** = 2

Protected Member Functions

- **BrokerInfo** (const **BrokerInfo** &)
- **BrokerInfo** & **operator=** (const **BrokerInfo** &)

Protected Attributes

- **Pointer< BrokerId > brokerId**
- std::string **brokerURL**
- std::vector< decaf::lang::Pointer< **BrokerInfo** > > **peerBrokerInfos**
- std::string **brokerName**
- bool **slaveBroker**
- bool **masterBroker**
- bool **faultTolerantConfiguration**
- bool **duplexConnection**
- bool **networkConnection**
- long long **connectionId**
- std::string **brokerUploadUrl**
- std::string **networkProperties**

6.102.1 Constructor & Destructor Documentation

6.102.1.1 `activemq::commands::BrokerInfo::BrokerInfo (const BrokerInfo &)`
[inline, protected]

6.102.1.2 `activemq::commands::BrokerInfo::BrokerInfo ()`

6.102.1.3 `virtual activemq::commands::BrokerInfo::~~BrokerInfo ()` [virtual]

6.102.2 Member Function Documentation

6.102.2.1 `virtual BrokerInfo* activemq::commands::BrokerInfo::cloneDataStructure () const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.102.2.2 `virtual void activemq::commands::BrokerInfo::copyDataStructure (const DataStructure * src)` [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.102.2.3 `virtual bool activemq::commands::BrokerInfo::equals (const DataStructure * value) const` [virtual]

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

- 6.102.2.4 `virtual Pointer<BrokerId>& activemq::commands::BrokerInfo::getBrokerId ()`
[virtual]
- 6.102.2.5 `virtual const Pointer<BrokerId>& activemq::commands::BrokerInfo::getBrokerId () const`
[virtual]
- 6.102.2.6 `virtual std::string& activemq::commands::BrokerInfo::getBrokerName ()`
[virtual]
- 6.102.2.7 `virtual const std::string& activemq::commands::BrokerInfo::getBrokerName () const`
[virtual]
- 6.102.2.8 `virtual std::string& activemq::commands::BrokerInfo::getBrokerUploadUrl ()`
[virtual]
- 6.102.2.9 `virtual const std::string& activemq::commands::BrokerInfo::getBrokerUploadUrl () const` [virtual]
- 6.102.2.10 `virtual std::string& activemq::commands::BrokerInfo::getBrokerURL ()`
[virtual]
- 6.102.2.11 `virtual const std::string& activemq::commands::BrokerInfo::getBrokerURL () const`
[virtual]
- 6.102.2.12 `virtual long long activemq::commands::BrokerInfo::getConnectionId () const` [virtual]
- 6.102.2.13 `virtual unsigned char activemq::commands::BrokerInfo::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.102.2.14** `virtual std::string& activemq::commands::BrokerInfo::getNetworkProperties ()`
[virtual]
- 6.102.2.15** `virtual const std::string& activemq::commands::BrokerInfo::getNetworkProperties ()`
`const` [virtual]
- 6.102.2.16** `virtual std::vector< decaf::lang::Pointer<BrokerInfo> >& activemq::commands::BrokerInfo::getPeerBrokerInfos ()` [virtual]
- 6.102.2.17** `virtual const std::vector< decaf::lang::Pointer<BrokerInfo> >& activemq::commands::BrokerInfo::getPeerBrokerInfos ()` `const`
[virtual]
- 6.102.2.18** `virtual bool activemq::commands::BrokerInfo::isBrokerInfo ()` `const`
[inline, virtual]

Returns:

an answer of true to the `isBrokerInfo()` (p. 611) query.

Reimplemented from `activemq::commands::BaseCommand` (p. 509).

- 6.102.2.19 virtual bool activemq::commands::BrokerInfo::isDuplexConnection () const [virtual]
- 6.102.2.20 virtual bool activemq::commands::BrokerInfo::isFaultTolerantConfiguration () const [virtual]
- 6.102.2.21 virtual bool activemq::commands::BrokerInfo::isMasterBroker () const [virtual]
- 6.102.2.22 virtual bool activemq::commands::BrokerInfo::isNetworkConnection () const [virtual]
- 6.102.2.23 virtual bool activemq::commands::BrokerInfo::isSlaveBroker () const [virtual]
- 6.102.2.24 BrokerInfo& activemq::commands::BrokerInfo::operator= (const BrokerInfo &) [inline, protected]
- 6.102.2.25 virtual void activemq::commands::BrokerInfo::setBrokerId (const Pointer< BrokerId > & *brokerId*) [virtual]
- 6.102.2.26 virtual void activemq::commands::BrokerInfo::setBrokerName (const std::string & *brokerName*) [virtual]
- 6.102.2.27 virtual void activemq::commands::BrokerInfo::setBrokerUploadUrl (const std::string & *brokerUploadUrl*) [virtual]
- 6.102.2.28 virtual void activemq::commands::BrokerInfo::setBrokerURL (const std::string & *brokerURL*) [virtual]
- 6.102.2.29 virtual void activemq::commands::BrokerInfo::setConnectionId (long long *connectionId*) [virtual]
- 6.102.2.30 virtual void activemq::commands::BrokerInfo::setDuplexConnection (bool *duplexConnection*) [virtual]
- 6.102.2.31 virtual void activemq::commands::BrokerInfo::setFaultTolerantConfiguration (bool *faultTolerantConfiguration*) [virtual]
- 6.102.2.32 virtual void activemq::commands::BrokerInfo::setMasterBroker (bool *masterBroker*) [virtual]
- 6.102.2.33 virtual void activemq::commands::BrokerInfo::setNetworkConnection (bool *networkConnection*) [virtual]
- 6.102.2.34 virtual void activemq::commands::BrokerInfo::setNetworkProperties (const std::string & *networkProperties*) [virtual]
- 6.102.2.35 virtual void activemq::commands::BrokerInfo::setPeerBrokerInfos (const std::vector< decaf::lang::Pointer< BrokerInfo > > & *peerBrokerInfos*) [virtual]
- 6.102.2.36 virtual void activemq::commands::BrokerInfo::setSlaveBroker (bool *slaveBroker*) [virtual]
- 6.102.2.37 virtual std::string activemq::commands::BrokerInfo::toString () const [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.102.2.38 `virtual Pointer<Command> activemq::commands::BrokerInfo::visit
(activemq::state::CommandVisitor * visitor) throw (
exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.102.3 Field Documentation

- 6.102.3.1 `Pointer<BrokerId> activemq::commands::BrokerInfo::brokerId`
[protected]
- 6.102.3.2 `std::string activemq::commands::BrokerInfo::brokerName` [protected]
- 6.102.3.3 `std::string activemq::commands::BrokerInfo::brokerUploadUrl`
[protected]
- 6.102.3.4 `std::string activemq::commands::BrokerInfo::brokerURL` [protected]
- 6.102.3.5 `long long activemq::commands::BrokerInfo::connectionId` [protected]
- 6.102.3.6 `bool activemq::commands::BrokerInfo::duplexConnection` [protected]
- 6.102.3.7 `bool activemq::commands::BrokerInfo::faultTolerantConfiguration`
[protected]
- 6.102.3.8 `const unsigned char activemq::commands::BrokerInfo::ID_ -
BROKERINFO = 2` [static]
- 6.102.3.9 `bool activemq::commands::BrokerInfo::masterBroker` [protected]
- 6.102.3.10 `bool activemq::commands::BrokerInfo::networkConnection` [protected]
- 6.102.3.11 `std::string activemq::commands::BrokerInfo::networkProperties`
[protected]
- 6.102.3.12 `std::vector< decaf::lang::Pointer<BrokerInfo> >
activemq::commands::BrokerInfo::peerBrokerInfos` [protected]
- 6.102.3.13 `bool activemq::commands::BrokerInfo::slaveBroker` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/BrokerInfo.h`

6.103 activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 615).

#include <src/main/activemq/wireformat/openwire/marshal/v3/BrokerInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller:

Public Member Functions

- **BrokerInfoMarshaller** ()
- virtual **~BrokerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.103.1 Detailed Description

Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 615). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.103.2 Constructor & Destructor Documentation

6.103.2.1 `activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::BrokerInfoMarshaller()` [inline]

6.103.2.2 `virtual activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::~~BrokerInfoMarshaller()` [inline, virtual]

6.103.3 Member Function Documentation

6.103.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.103.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.103.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.103.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.103.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.103.3.6 virtual void activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.103.3.7 virtual void activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**BrokerInfoMarshaller.h**

6.104 activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 619).

#include <src/main/activemq/wireformat/openwire/marshal/v1/BrokerInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller:

Public Member Functions

- **BrokerInfoMarshaller** ()
- virtual **~BrokerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.104.1 Detailed Description

Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 619). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.104.2 Constructor & Destructor Documentation

6.104.2.1 `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::BrokerInfoMarshaller()` [inline]

6.104.2.2 `virtual activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::~~BrokerInfoMarshaller()` [inline, virtual]

6.104.3 Member Function Documentation

6.104.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.104.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.104.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

```
6.104.3.4 virtual void ac-
tivemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::looseUnmarshal
(OpenWireFormat * wireFormat, commands::DataStructure
* dataStructure, decaf::io::DataInputStream * dataIn) throw (
decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

```
6.104.3.5 virtual int ac-
tivemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::tightMarshal1
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException
) [virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.104.3.6 `virtual void activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.104.3.7 `virtual void activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/BrokerInfoMarshaller.h`

6.105 activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 623).

#include <src/main/activemq/wireformat/openwire/marshal/v2/BrokerInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller:

Public Member Functions

- **BrokerInfoMarshaller** ()
- virtual **~BrokerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.105.1 Detailed Description

Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 623). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.105.2 Constructor & Destructor Documentation

6.105.2.1 `activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::BrokerInfoMarshaller()` [inline]

6.105.2.2 `virtual activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::~~BrokerInfoMarshaller()` [inline, virtual]

6.105.3 Member Function Documentation

6.105.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.105.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.105.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.105.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.105.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.105.3.6 virtual void activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.105.3.7 virtual void activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**BrokerInfoMarshaller.h**

6.106 decaf::nio::Buffer Class Reference

A container for data of a specific primitive type.

#include <src/main/decaf/nio/Buffer.h> Inheritance diagram for decaf::nio::Buffer:

Public Member Functions

- **Buffer** (std::size_t capacity)
- **Buffer** (const **Buffer** &other)
- virtual ~**Buffer** ()
- virtual std::size_t **capacity** () const
- virtual std::size_t **position** () const
- virtual **Buffer** & **position** (std::size_t newPosition) throw (lang::exceptions::IllegalArgumentException)
Sets this buffer's position.
- virtual std::size_t **limit** () const
- virtual **Buffer** & **limit** (std::size_t newLimit) throw (lang::exceptions::IllegalArgumentException)
Sets this buffer's limit.
- virtual **Buffer** & **mark** ()
Sets this buffer's mark at its position.
- virtual **Buffer** & **reset** () throw (InvalidMarkException)
Resets this buffer's position to the previously-marked position.
- virtual **Buffer** & **clear** ()
Clears this buffer.
- virtual **Buffer** & **flip** ()
Flips this buffer.
- virtual **Buffer** & **rewind** ()
Rewinds this buffer.
- virtual std::size_t **remaining** () const
Returns the number of elements between the current position and the limit.
- virtual bool **hasRemaining** () const
Tells whether there are any elements between the current position and the limit.
- virtual bool **isReadOnly** () const =0
Tells whether or not this buffer is read-only.

Protected Attributes

- `std::size_t __position`
- `std::size_t __capacity`
- `std::size_t __limit`
- `std::size_t __mark`
- `bool __markSet`

6.106.1 Detailed Description

A container for data of a specific primitive type. A buffer is a linear, finite sequence of elements of a specific primitive type. Aside from its content, the essential properties of a buffer are its capacity, limit, and position:

A buffer's capacity is the number of elements it contains. The capacity of a buffer is never negative and never changes.

A buffer's limit is the index of the first element that should not be read or written. A buffer's limit is never negative and is never greater than its capacity.

A buffer's position is the index of the next element to be read or written. A buffer's position is never negative and is never greater than its limit.

There is one subclass of this class for each non-boolean primitive type.

Transferring data: Each subclass of this class defines two categories of get and put operations: * Relative operations read or write one or more elements starting at the current position and then increment the position by the number of elements transferred. If the requested transfer exceeds the limit then a relative get operation throws a **BufferUnderflowException** (p. 661) and a relative put operation throws a **BufferOverflowException** (p. 658); in either case, no data is transferred. * Absolute operations take an explicit element index and do not affect the position. Absolute get and put operations throw an **IndexOutOfBoundsException** if the index argument exceeds the limit.

Data may also, of course, be transferred in to or out of a buffer by the I/O operations of an appropriate channel, which are always relative to the current position.

Marking and resetting:

A buffer's mark is the index to which its position will be reset when the reset method is invoked. The mark is not always defined, but when it is defined it is never negative and is never greater than the position. If the mark is defined then it is discarded when the position or the limit is adjusted to a value smaller than the mark. If the mark is not defined then invoking the reset method causes an **InvalidMarkException** (p. 1470) to be thrown.

Invariants:

The following invariant holds for the mark, position, limit, and capacity values: $0 \leq \text{mark} \leq \text{position} \leq \text{limit} \leq \text{capacity}$

A newly-created buffer always has a position of zero and a mark that is undefined. The initial limit may be zero, or it may be some other value that depends upon the type of the buffer and the manner in which it is constructed. The initial content of a buffer is, in general, undefined.

Clearing, flipping, and rewinding:

In addition to methods for accessing the position, limit, and capacity values and for marking and resetting, this class also defines the following operations upon buffers:

clear() (p. 629) makes a buffer ready for a new sequence of channel-read or relative put operations: It sets the limit to the capacity and the position to zero.

flip() (p. 630) makes a buffer ready for a new sequence of channel-write or relative get operations: It sets the limit to the current position and then sets the position to zero.

rewind() (p. 632) makes a buffer ready for re-reading the data that it already contains: It leaves the limit unchanged and sets the position to zero.

Read-only buffers:

Every buffer is readable, but not every buffer is writable. The mutation methods of each buffer class are specified as optional operations that will throw a **ReadOnlyBufferException** (p. 2167) when invoked upon a read-only buffer. A read-only buffer does not allow its content to be changed, but its mark, position, and limit values are mutable. Whether or not a buffer is read-only may be determined by invoking its `isReadOnly` method.

Thread safety:

Buffers are not safe for use by multiple concurrent threads. If a buffer is to be used by more than one thread then access to the buffer should be controlled by appropriate synchronization.

Invocation chaining:

Methods in this class that do not otherwise have a value to return are specified to return the buffer upon which they are invoked. This allows method invocations to be chained; for example, the sequence of statements

```
b.flip(); b.position(23); b.limit(42);
```

can be replaced by the single, more compact statement `b.flip().position(23).limit(42);`

6.106.2 Constructor & Destructor Documentation

6.106.2.1 `decaf::nio::Buffer::Buffer (std::size_t capacity)`

6.106.2.2 `decaf::nio::Buffer::Buffer (const Buffer & other)`

6.106.2.3 `virtual decaf::nio::Buffer::~~Buffer ()` [inline, virtual]

6.106.3 Member Function Documentation

6.106.3.1 `virtual std::size_t decaf::nio::Buffer::capacity () const` [inline, virtual]

Returns:

this buffer's capacity.

6.106.3.2 `virtual Buffer& decaf::nio::Buffer::clear ()` [virtual]

Clears this buffer. The position is set to zero, the limit is set to the capacity, and the mark is discarded.

Invoke this method before using a sequence of channel-read or put operations to fill this buffer. For example:

```
buf.clear(); // Prepare buffer for reading in.read(buf); // Read data
```

This method does not actually erase the data in the buffer, but it is named as if it did because it will most often be used in situations in which that might as well be the case.

Returns:

a reference to this buffer.

6.106.3.3 virtual Buffer& decaf::nio::Buffer::flip () [virtual]

Flips this buffer. The limit is set to the current position and then the position is set to zero. If the mark is defined then it is discarded.

After a sequence of channel-read or put operations, invoke this method to prepare for a sequence of channel-write or relative get operations. For example:

```
buf.put(magic); // Prepend header
in.read(buf); // Read data into rest of buffer
buf.flip(); // Flip buffer
out.write(buf); // Write header + data to channel
```

This method is often used in conjunction with the compact method when transferring data from one place to another.

Returns:

a reference to this buffer.

6.106.3.4 virtual bool decaf::nio::Buffer::hasRemaining () const [inline, virtual]

Tells whether there are any elements between the current position and the limit.

Returns:

true if, and only if, there is at least one element remaining in this buffer

6.106.3.5 virtual bool decaf::nio::Buffer::isReadOnly () const [pure virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implemented in `decaf::internal::nio::ByteBuffer` (p. 708), `decaf::internal::nio::CharArrayBuffer` (p. 814), `decaf::internal::nio::DoubleArrayBuffer` (p. 1247), `decaf::internal::nio::FloatArrayBuffer` (p. 1344), `decaf::internal::nio::IntArrayBuffer` (p. 1415), `decaf::internal::nio::LongArrayBuffer` (p. 1671), `decaf::internal::nio::ShortArrayBuffer` (p. 2335), and `decaf::nio::ByteBuffer` (p. 749).

6.106.3.6 virtual Buffer& decaf::nio::Buffer::limit (std::size_t newLimit) throw (lang::exceptions::IllegalArgumentException) [virtual]

Sets this buffer's limit. If the position is larger than the new limit then it is set to the new limit. If the mark is defined and larger than the new limit then it is discarded.

Parameters:

newLimit - The new limit value; must be no larger than this buffer's capacity

Returns:

A reference to This buffer

Exceptions:

IllegalArgumentException if preconditions on the new pos don't hold.

6.106.3.7 `virtual std::size_t decaf::nio::Buffer::limit () const` [inline, virtual]

Returns:

this buffers Limit

6.106.3.8 `virtual Buffer& decaf::nio::Buffer::mark ()` [virtual]

Sets this buffer's mark at its position.

Returns:

a reference to this buffer.

6.106.3.9 `virtual Buffer& decaf::nio::Buffer::position (std::size_t newPosition)
throw (lang::exceptions::IllegalArgumentException)` [virtual]

Sets this buffer's position. If the mark is defined and larger than the new position then it is discarded.

Parameters:

newPosition - the new postion in the buffer to set.

Returns:

A reference to This buffer

Exceptions:

IllegalArgumentException if preconditions on the new pos don't hold.

6.106.3.10 `virtual std::size_t decaf::nio::Buffer::position () const` [inline, virtual]

Returns:

the current position in the buffer

6.106.3.11 `virtual std::size_t decaf::nio::Buffer::remaining () const [inline, virtual]`

Returns the number of elements between the current position and the limit.

Returns:

The number of elements remaining in this buffer

6.106.3.12 `virtual Buffer& decaf::nio::Buffer::reset () throw (InvalidMarkException) [virtual]`

Resets this buffer's position to the previously-marked position.

Returns:

a reference to this buffer.

Exceptions:

InvalidMarkException (p. 1470) - If the mark has not been set

6.106.3.13 `virtual Buffer& decaf::nio::Buffer::rewind () [virtual]`

Rewinds this buffer. The position is set to zero and the mark is discarded.

Invoke this method before a sequence of channel-write or get operations, assuming that the limit has already been set appropriately. For example:

```
out.write(buf); // Write remaining data buf.rewind(); // Rewind buffer buf.get(array); // Copy data into array
```

Returns:

a reference to this buffer.

6.106.4 Field Documentation

6.106.4.1 `std::size_t decaf::nio::Buffer::_capacity [protected]`

6.106.4.2 `std::size_t decaf::nio::Buffer::_limit [protected]`

6.106.4.3 `std::size_t decaf::nio::Buffer::_mark [protected]`

6.106.4.4 `bool decaf::nio::Buffer::_markSet [protected]`

6.106.4.5 `std::size_t decaf::nio::Buffer::_position [mutable, protected]`

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/Buffer.h`

6.107 decaf::io::BufferedInputStream Class Reference

A wrapper around another input stream that performs a buffered read, where it reads more data than it needs in order to reduce the number of `io` (p. 100) operations on the input stream.

`#include <src/main/decaf/io/BufferedInputStream.h>` Inheritance diagram for `decaf::io::BufferedInputStream`:

Public Member Functions

- **BufferedInputStream** (**InputStream** *stream, bool **own**=false)
Constructor.
- **BufferedInputStream** (**InputStream** *stream, std::size_t bufferSize, bool **own**=false) throw (lang::exceptions::IllegalArgumentException)
Constructor.
- virtual ~**BufferedInputStream** ()
- virtual std::size_t **available** () const throw (IOException)
Indicates the number of bytes available.
- virtual void **close** () throw (IOException)
*Close this **BufferedInputStream** (p. 633).*
- virtual unsigned char **read** () throw (IOException)
Reads a single byte from the buffer.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize) throw (IOException, lang::exceptions::NullPointerException)
Reads an array of bytes from the buffer.
- virtual std::size_t **skip** (std::size_t num) throw (io::IOException, lang::exceptions::UnsupportedOperationException)
Skips over and discards n bytes of data from this input stream.
- virtual void **mark** (int readLimit)
Marks the current position in the stream A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes.
- virtual void **reset** () throw (IOException)
Repositions this stream to the position at the time the mark method was last called on this input stream.
- virtual bool **markSupported** () const
Determines if this input stream supports the mark and reset methods.

6.107.1 Detailed Description

A wrapper around another input stream that performs a buffered read, where it reads more data than it needs in order to reduce the number of `io` (p.100) operations on the input stream.

6.107.2 Constructor & Destructor Documentation

6.107.2.1 `decaf::io::BufferedInputStream::BufferedInputStream (InputStream * stream, bool own = false)`

Constructor.

Parameters:

stream The target input stream.

own indicates if we own the stream object, defaults to false

6.107.2.2 `decaf::io::BufferedInputStream::BufferedInputStream (InputStream * stream, std::size_t bufferSize, bool own = false) throw (lang::exceptions::IllegalArgumentException)`

Constructor.

Parameters:

stream the target input stream

bufferSize the size for the **internal** (p.95) buffer.

own indicates if we own the stream object, defaults to false.

Exceptions:

IllegalArgumentException is the size is zero.

6.107.2.3 `virtual decaf::io::BufferedInputStream::~~BufferedInputStream ()` [virtual]

6.107.3 Member Function Documentation

6.107.3.1 `virtual std::size_t decaf::io::BufferedInputStream::available () const` `throw (IOException)` [inline, virtual]

Indicates the number of bytes available.

Returns:

the sum of the amount of data available in the buffer and the data available on the target input stream.

Reimplemented from `decaf::io::FilterInputStream` (p.1317).

6.107.3.2 virtual void decaf::io::BufferedInputStream::close () throw (IOException) [virtual]

Close this **BufferedInputStream** (p. 633). This implementation closes the target stream and releases any resources associated with it.

Exceptions:

IOException (p. 1477) If an error occurs attempting to close this stream.

Reimplemented from **decaf::io::FilterInputStream** (p. 1317).

6.107.3.3 virtual void decaf::io::BufferedInputStream::mark (int readLimit) [inline, virtual]

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes. If a stream instance reports that marks are supported then the stream will ensure that the same bytes can be read again after the reset method is called so long the readLimit is not reached.

Parameters:

readLimit max bytes read before marked position is invalid.

Reimplemented from **decaf::io::FilterInputStream** (p. 1318).

6.107.3.4 virtual bool decaf::io::BufferedInputStream::markSupported () const [inline, virtual]

Determines if this input stream supports the mark and reset methods. Whether or not mark and reset are supported is an invariant property of a particular input stream instance.

Returns:

true if this stream instance supports marks

Reimplemented from **decaf::io::FilterInputStream** (p. 1318).

6.107.3.5 virtual int decaf::io::BufferedInputStream::read (unsigned char * buffer, std::size_t offset, std::size_t bufferSize) throw (IOException, lang::exceptions::NullPointerException) [virtual]

Reads an array of bytes from the buffer. Blocks until the requested number of bytes are available.

Parameters:

buffer (out) the target buffer.

offset the position in the buffer to start reading from.

bufferSize the size of the output buffer.

Returns:

The number of bytes read or -1 if EOF

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException if buffer is NULL

Reimplemented from **decaf::io::FilterInputStream** (p.1319).

6.107.3.6 virtual unsigned char decaf::io::BufferedInputStream::read () throw (IOException) [virtual]

Reads a single byte from the buffer. Blocks until the data is available.

Returns:

The next byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Reimplemented from **decaf::io::FilterInputStream** (p.1319).

6.107.3.7 virtual void decaf::io::BufferedInputStream::reset () throw (IOException) [inline, virtual]

Repositions this stream to the position at the time the mark method was last called on this input stream. If the method markSupported returns true, then: * If the method mark has not been called since the stream was created, or the number of bytes read from the stream since mark was last called is larger than the argument to mark at that last call, then an **IOException** (p.1477) might be thrown. * If such an **IOException** (p.1477) is not thrown, then the stream is reset to a state such that all the bytes read since the most recent call to mark (or since the start of the file, if mark has not been called) will be resupplied to subsequent callers of the read method, followed by any bytes that otherwise would have been the next input data as of the time of the call to reset. If the method markSupported returns false, then: * The call to reset may throw an **IOException** (p.1477). * If an **IOException** (p.1477) is not thrown, then the stream is reset to a fixed state that depends on the particular type of the input stream and how it was created. The bytes that will be supplied to subsequent callers of the read method depend on the particular type of the input stream.

Exceptions:

IOException (p. 1477)

Reimplemented from **decaf::io::FilterInputStream** (p.1320).

6.107.3.8 virtual std::size_t decaf::io::BufferedInputStream::skip (std::size_t num) throw (io::IOException, lang::exceptions::UnsupportedOperationException) [virtual]

Skips over and discards n bytes of data from this input stream. The skip method may, for a variety of reasons, end up skipping over some smaller number of bytes, possibly 0. This may result from

any of a number of conditions; reaching end of file before *n* bytes have been skipped is only one possibility. The actual number of bytes skipped is returned. If *n* is negative, no bytes are skipped.

The skip method of **InputStream** (p. 1406) creates a byte array and then repeatedly reads into it until *n* bytes have been read or the end of the stream has been reached. Subclasses are encouraged to provide a more efficient implementation of this method.

Parameters:

num - the number of bytes to skip

Returns:

total bytes skipped

Exceptions:

IOException (p. 1477) if an error occurs

Reimplemented from **decaf::io::FilterInputStream** (p. 1320).

The documentation for this class was generated from the following file:

- src/main/decaf/io/**BufferedInputStream.h**

6.108 decaf::io::BufferedOutputStream Class Reference

Wrapper around another output stream that buffers output before writing to the target output stream.

#include <src/main/decaf/io/BufferedOutputStream.h> Inheritance diagram for decaf::io::BufferedOutputStream:

Public Member Functions

- **BufferedOutputStream** (**OutputStream** *stream, bool **own**=false)
Constructor.
- **BufferedOutputStream** (**OutputStream** *stream, std::size_t bufferSize, bool **own**=false) throw (lang::exceptions::IllegalArgumentException)
Constructor.
- virtual ~**BufferedOutputStream** ()
- virtual void **write** (unsigned char c) throw (IOException)
Writes a single byte to the output stream.
- virtual void **write** (const std::vector< unsigned char > &buffer) throw (IOException)
Writes an array of bytes to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset, std::size_t len) throw (IOException, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **flush** () throw (IOException)
Invokes flush on the target output stream.
- void **close** () throw (lang::Exception)
Invokes close on the target output stream.

6.108.1 Detailed Description

Wrapper around another output stream that buffers output before writing to the target output stream.

6.108.2 Constructor & Destructor Documentation

6.108.2.1 decaf::io::BufferedOutputStream::BufferedOutputStream (OutputStream * stream, bool own = false)

Constructor.

Parameters:

- stream* The target output stream.
own Indicates if this class owns the stream pointer.

6.108.2.2 `decaf::io::BufferedOutputStream::BufferedOutputStream (OutputStream * stream, std::size_t bufferSize, bool own = false) throw (lang::exceptions::IllegalArgumentException)`

Constructor.

Parameters:

- stream* The target output stream.
bufferSize The size for the **internal** (p. 95) buffer.
own Indicates if this class owns the stream pointer.

6.108.2.3 `virtual decaf::io::BufferedOutputStream::~~BufferedOutputStream ()`
[virtual]

6.108.3 Member Function Documentation

6.108.3.1 `void decaf::io::BufferedOutputStream::close () throw (lang::Exception)`
[virtual]

Invokes close on the target output stream.

Exceptions:

CMSEException thrown if an error occurs.

Reimplemented from `decaf::io::FilterOutputStream` (p. 1324).

6.108.3.2 `virtual void decaf::io::BufferedOutputStream::flush () throw (IOException)` [virtual]

Invokes flush on the target output stream.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Reimplemented from `decaf::io::FilterOutputStream` (p. 1324).

6.108.3.3 `virtual void decaf::io::BufferedOutputStream::write (const unsigned char * buffer, std::size_t offset, std::size_t len) throw (IOException, lang::exceptions::NullPointerException)` [virtual]

Writes an array of bytes to the output stream.

Parameters:

- buffer* The array of bytes to write.

offset the position to start writing in buffer.

len The number of bytes from the buffer to be written.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException thrown if buffer is Null.

Reimplemented from **decaf::io::FilterOutputStream** (p. 1326).

6.108.3.4 `virtual void decaf::io::BufferedOutputStream::write (const std::vector< unsigned char > & buffer) throw (IOException) [virtual]`

Writes an array of bytes to the output stream.

Parameters:

buffer The bytes to write.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Reimplemented from **decaf::io::FilterOutputStream** (p. 1326).

6.108.3.5 `virtual void decaf::io::BufferedOutputStream::write (unsigned char c) throw (IOException) [virtual]`

Writes a single byte to the output stream.

Parameters:

c the byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Reimplemented from **decaf::io::FilterOutputStream** (p. 1327).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/BufferedOutputStream.h`

6.109 decaf::net::BufferedSocket Class Reference

Buffered **Socket** (p.2371) class that wraps a **Socket** (p.2371) derived object and provides Buffered input and Output Streams to improve the efficiency of the reads and writes.

#include <src/main/decaf/net/BufferedSocket.h> Inheritance diagram for decaf::net::BufferedSocket:

Public Member Functions

- **BufferedSocket** (**Socket** *socket, int inputBufferSize=1000, int outputBufferSize=1000, bool own=true)
Constructs a new Buffered socket object.
- virtual ~**BufferedSocket** ()
- virtual void **connect** (const char *host, int port) throw (**SocketException**)
Connects to the specified destination.
- virtual void **close** () throw (lang::Exception)
Closes this object and deallocates the appropriate resources.
- virtual bool **isConnected** () const
Indicates whether or not this socket is connected to a destination.
- virtual **io::InputStream** * **getInputStream** ()
Gets the InputStream for this socket.
- virtual **io::OutputStream** * **getOutputStream** ()
Gets the OutputStream for this socket.
- virtual int **getSoLinger** () const throw (**SocketException**)
Gets the linger time.
- virtual void **setSoLinger** (int linger) throw (**SocketException**)
Sets the linger time.
- virtual bool **getKeepAlive** () const throw (**SocketException**)
Gets the keep alive flag.
- virtual void **setKeepAlive** (bool keepAlive) throw (**SocketException**)
Enables/disables the keep alive flag.
- virtual int **getReceiveBufferSize** () const throw (**SocketException**)
Gets the receive buffer size.
- virtual void **setReceiveBufferSize** (int size) throw (**SocketException**)
Sets the receive buffer size.

- virtual bool **getReuseAddress** () const throw (SocketException)
Gets the reuse address flag.
- virtual void **setReuseAddress** (bool reuse) throw (SocketException)
Sets the reuse address flag.
- virtual int **getSendBufferSize** () const throw (SocketException)
Gets the send buffer size.
- virtual void **setSendBufferSize** (int size) throw (SocketException)
Sets the send buffer size.
- virtual int **getSoTimeout** () const throw (SocketException)
Gets the timeout for socket operations.
- virtual void **setSoTimeout** (int timeout) throw (SocketException)
Sets the timeout for socket operations.

6.109.1 Detailed Description

Buffered **Socket** (p.2371) class that wraps a **Socket** (p.2371) derived object and provides Buffered input and Output Streams to improve the efficiency of the reads and writes.

6.109.2 Constructor & Destructor Documentation

6.109.2.1 **decaf::net::BufferedSocket::BufferedSocket** (Socket * *socket*, int *inputBufferSize* = 1000, int *outputBufferSize* = 1000, bool *own* = true)

Constructs a new Buffered socket object.

Parameters:

socket the socket to buffer
inputBufferSize size of the input buffer
outputBufferSize size of the output buffer
own does this object own the passed socket

6.109.2.2 **virtual decaf::net::BufferedSocket::~~BufferedSocket** () [virtual]

6.109.3 Member Function Documentation

6.109.3.1 **virtual void decaf::net::BufferedSocket::close** () throw (lang::Exception) [virtual]

Closes this object and deallocates the appropriate resources.

Exceptions:

CMSEException

Implements **decaf::io::Closeable** (p. 840).

6.109.3.2 virtual void decaf::net::BufferedSocket::connect (const char * *host*, int *port*) throw (SocketException) [virtual]

Connects to the specified destination. Closes this socket if connected to another destination.

Parameters:

host The host of the server to connect to.

port The port of the server to connect to.

Exceptions:

IOException Thrown if a failure occurred in the connect.

Implements **decaf::net::Socket** (p. 2372).

6.109.3.3 virtual io::InputStream* decaf::net::BufferedSocket::getInputStream () [inline, virtual]

Gets the InputStream for this socket.

Returns:

The InputStream for this socket. NULL if not connected.

Implements **decaf::net::Socket** (p. 2373).

6.109.3.4 virtual bool decaf::net::BufferedSocket::getKeepAlive () const throw (SocketException) [inline, virtual]

Gets the keep alive flag.

Returns:

True if keep alive is enabled.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2373).

References **decaf::net::Socket::getKeepAlive()**.

6.109.3.5 virtual io::OutputStream* decaf::net::BufferedSocket::getOutputStream () [inline, virtual]

Gets the OutputStream for this socket.

Returns:

the OutputStream for this socket. NULL if not connected.

Implements **decaf::net::Socket** (p. 2373).

6.109.3.6 `virtual int decaf::net::BufferedSocket::getReceiveBufferSize () const throw (SocketException) [inline, virtual]`

Gets the receive buffer size.

Returns:

the receive buffer size in bytes.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2373).

References `decaf::net::Socket::getReceiveBufferSize()`.

6.109.3.7 `virtual bool decaf::net::BufferedSocket::getReuseAddress () const throw (SocketException) [inline, virtual]`

Gets the reuse address flag.

Returns:

True if the address can be reused.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2374).

References `decaf::net::Socket::getReuseAddress()`.

6.109.3.8 `virtual int decaf::net::BufferedSocket::getSendBufferSize () const throw (SocketException) [inline, virtual]`

Gets the send buffer size.

Returns:

the size in bytes of the send buffer.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2374).

References `decaf::net::Socket::getSendBufferSize()`.

6.109.3.9 `virtual int decaf::net::BufferedSocket::getSoLinger () const throw (SocketException) [inline, virtual]`

Gets the linger time.

Returns:

The linger time in seconds.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2374).

References **decaf::net::Socket::getSoLinger()**.

6.109.3.10 virtual int decaf::net::BufferedSocket::getSoTimeout () const throw (SocketException) [inline, virtual]

Gets the timeout for socket operations.

Returns:

The timeout in milliseconds for socket operations.

Exceptions:

SocketException (p. 2379) Thrown if unable to retrieve the information.

Implements **decaf::net::Socket** (p. 2375).

References **decaf::net::Socket::getSoTimeout()**.

6.109.3.11 virtual bool decaf::net::BufferedSocket::isConnected () const [inline, virtual]

Indicates whether or not this socket is connected to a destination.

Returns:

true if connected

Implements **decaf::net::Socket** (p. 2375).

References **decaf::net::Socket::isConnected()**.

6.109.3.12 virtual void decaf::net::BufferedSocket::setKeepAlive (bool *keepAlive*) throw (SocketException) [inline, virtual]

Enables/disables the keep alive flag.

Parameters:

keepAlive If true, enables the flag.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2375).

References **decaf::net::Socket::setKeepAlive()**.

6.109.3.13 **virtual void decaf::net::BufferedSocket::setReceiveBufferSize (int *size*)
 throw (SocketException)** [inline, virtual]

Sets the receive buffer size.

Parameters:

size Number of bytes to set the receive buffer to.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2375).

References decaf::net::Socket::setReceiveBufferSize().

6.109.3.14 **virtual void decaf::net::BufferedSocket::setReuseAddress (bool *reuse*)
 throw (SocketException)** [inline, virtual]

Sets the reuse address flag.

Parameters:

reuse If true, sets the flag.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2376).

References decaf::net::Socket::setReuseAddress().

6.109.3.15 **virtual void decaf::net::BufferedSocket::setSendBufferSize (int *size*)
 throw (SocketException)** [inline, virtual]

Sets the send buffer size.

Parameters:

size The number of bytes to set the send buffer to.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2376).

References decaf::net::Socket::setSendBufferSize().

6.109.3.16 **virtual void decaf::net::BufferedSocket::setSoLinger (int *linger*) throw (SocketException)** [inline, virtual]

Sets the linger time.

Parameters:

linger The linger time in seconds. If 0, linger is off.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2376).

References **decaf::net::Socket::setSoLinger()**.

**6.109.3.17 virtual void decaf::net::BufferedSocket::setSoTimeout (int *timeout*)
throw (SocketException) [inline, virtual]**

Sets the timeout for socket operations.

Parameters:

timeout The timeout in milliseconds for socket operations.

Exceptions:

SocketException (p. 2379) Thrown if unable to set the information.

Implements **decaf::net::Socket** (p. 2377).

References **decaf::net::Socket::setSoTimeout()**.

The documentation for this class was generated from the following file:

- `src/main/decaf/net/BufferedSocket.h`

6.110 decaf::internal::nio::BufferFactory Class Reference

Factory class used by static methods in the **decaf::nio** (p.106) package to create the various default version of the NIO interfaces.

```
#include <src/main/decaf/internal/nio/BufferFactory.h>
```

Public Member Functions

- virtual **~BufferFactory** ()

Static Public Member Functions

- static **decaf::nio::ByteBuffer * createByteBuffer** (std::size_t capacity)
Allocates a new byte buffer whose position will be zero its limit will be its capacity and its mark is not set.
- static **decaf::nio::ByteBuffer * createByteBuffer** (unsigned char *buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
Wraps the passed buffer with a new ByteBuffer.
- static **decaf::nio::ByteBuffer * createByteBuffer** (std::vector< unsigned char > &buffer)
Wraps the passed STL Byte Vector in a ByteBuffer.
- static **decaf::nio::CharBuffer * createCharBuffer** (std::size_t capacity)
Allocates a new char buffer whose position will be zero its limit will be its capacity and its mark is not set.
- static **decaf::nio::CharBuffer * createCharBuffer** (char *buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
Wraps the passed buffer with a new CharBuffer.
- static **decaf::nio::CharBuffer * createCharBuffer** (std::vector< char > &buffer)
Wraps the passed STL Byte Vector in a CharBuffer.
- static **decaf::nio::DoubleBuffer * createDoubleBuffer** (std::size_t capacity)
Allocates a new double buffer whose position will be zero its limit will be its capacity and its mark is not set.
- static **decaf::nio::DoubleBuffer * createDoubleBuffer** (double *buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
Wraps the passed buffer with a new DoubleBuffer.
- static **decaf::nio::DoubleBuffer * createDoubleBuffer** (std::vector< double > &buffer)
Wraps the passed STL Double Vector in a DoubleBuffer.
- static **decaf::nio::FloatBuffer * createFloatBuffer** (std::size_t capacity)
Allocates a new float buffer whose position will be zero its limit will be its capacity and its mark is not set.

- static **decaf::nio::FloatBuffer * createFloatBuffer** (float *buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
Wraps the passed buffer with a new FloatBuffer.
- static **decaf::nio::FloatBuffer * createFloatBuffer** (std::vector< float > &buffer)
Wraps the passed STL Float Vector in a FloatBuffer.
- static **decaf::nio::LongBuffer * createLongBuffer** (std::size_t capacity)
Allocates a new long long buffer whose position will be zero its limit will be its capacity and its mark is not set.
- static **decaf::nio::LongBuffer * createLongBuffer** (long long *buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
Wraps the passed buffer with a new LongBuffer.
- static **decaf::nio::LongBuffer * createLongBuffer** (std::vector< long long > &buffer)
Wraps the passed STL Long Vector in a LongBuffer.
- static **decaf::nio::IntBuffer * createIntBuffer** (std::size_t capacity)
Allocates a new int buffer whose position will be zero its limit will be its capacity and its mark is not set.
- static **decaf::nio::IntBuffer * createIntBuffer** (int *buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
Wraps the passed buffer with a new IntBuffer.
- static **decaf::nio::IntBuffer * createIntBuffer** (std::vector< int > &buffer)
Wraps the passed STL int Vector in a IntBuffer.
- static **decaf::nio::ShortBuffer * createShortBuffer** (std::size_t capacity)
Allocates a new short buffer whose position will be zero its limit will be its capacity and its mark is not set.
- static **decaf::nio::ShortBuffer * createShortBuffer** (short *buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
Wraps the passed buffer with a new ShortBuffer.
- static **decaf::nio::ShortBuffer * createShortBuffer** (std::vector< short > &buffer)
Wraps the passed STL Short Vector in a ShortBuffer.

6.110.1 Detailed Description

Factory class used by static methods in the **decaf::nio** (p.106) package to create the various default version of the NIO interfaces.

6.110.2 Constructor & Destructor Documentation

6.110.2.1 `virtual decaf::internal::nio::BufferFactory::~~BufferFactory () [inline, virtual]`

6.110.3 Member Function Documentation

6.110.3.1 `static decaf::nio::ByteBuffer* decaf::internal::nio::BufferFactory::createByteBuffer (std::vector< unsigned char > & buffer) [static]`

Wraps the passed STL Byte Vector in a ByteBuffer. The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new ByteBuffer that is backed by *buffer*, caller owns.

6.110.3.2 `static decaf::nio::ByteBuffer* decaf::internal::nio::BufferFactory::createByteBuffer (unsigned char * buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new ByteBuffer. The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new ByteBuffer that is backed by *buffer*, caller owns.

6.110.3.3 `static decaf::nio::ByteBuffer* decaf::internal::nio::BufferFactory::createByteBuffer (std::size_t capacity) [static]`

Allocates a new byte buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated ByteBuffer which the caller owns.

6.110.3.4 `static decaf::nio::CharBuffer* decaf::internal::nio::BufferFactory::createCharBuffer (std::vector< char > & buffer) [static]`

Wraps the passed STL Byte Vector in a CharBuffer. The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new CharBuffer that is backed by *buffer*, caller owns.

6.110.3.5 `static decaf::nio::CharBuffer* decaf::internal::nio::BufferFactory::createCharBuffer (char * buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new CharBuffer. The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new CharBuffer that is backed by *buffer*, caller owns.

6.110.3.6 `static decaf::nio::CharBuffer* decaf::internal::nio::BufferFactory::createCharBuffer (std::size_t capacity) [static]`

Allocates a new char buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated CharBuffer which the caller owns.

6.110.3.7 `static decaf::nio::DoubleBuffer* decaf::internal::nio::BufferFactory::createDoubleBuffer (std::vector< double > & buffer) [static]`

Wraps the passed STL Double Vector in a DoubleBuffer. The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.8 `static decaf::nio::DoubleBuffer* decaf::internal::nio::BufferFactory::createDoubleBuffer (double * buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new DoubleBuffer. The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.9 `static decaf::nio::DoubleBuffer* decaf::internal::nio::BufferFactory::createDoubleBuffer (std::size_t capacity) [static]`

Allocates a new double buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated DoubleBuffer which the caller owns.

6.110.3.10 `static decaf::nio::FloatBuffer* decaf::internal::nio::BufferFactory::createFloatBuffer (std::vector< float > & buffer) [static]`

Wraps the passed STL Float Vector in a FloatBuffer. The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.11 `static decaf::nio::FloatBuffer* decaf::internal::nio::BufferFactory::createFloatBuffer (float * buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new FloatBuffer. The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.12 `static decaf::nio::FloatBuffer* decaf::internal::nio::BufferFactory::createFloatBuffer (std::size_t capacity) [static]`

Allocates a new float buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated DoubleBuffer which the caller owns.

6.110.3.13 `static decaf::nio::IntBuffer* decaf::internal::nio::BufferFactory::createIntBuffer (std::vector< int > & buffer) [static]`

Wraps the passed STL int Vector in a IntBuffer. The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.14 `static decaf::nio::IntBuffer* decaf::internal::nio::BufferFactory::createIntBuffer (int * buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new IntBuffer. The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.15 `static decaf::nio::IntBuffer* decaf::internal::nio::BufferFactory::createIntBuffer (std::size_t capacity) [static]`

Allocates a new int buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated DoubleBuffer which the caller owns.

6.110.3.16 `static decaf::nio::LongBuffer* decaf::internal::nio::BufferFactory::createLongBuffer (std::vector< long long > & buffer) [static]`

Wraps the passed STL Long Vector in a LongBuffer. The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.17 `static decaf::nio::LongBuffer* decaf::internal::nio::BufferFactory::createLongBuffer (long long * buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new LongBuffer. The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.18 `static decaf::nio::LongBuffer* decaf::internal::nio::BufferFactory::createLongBuffer (std::size_t capacity) [static]`

Allocates a new long long buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated DoubleBuffer which the caller owns.

6.110.3.19 `static decaf::nio::ShortBuffer* decaf::internal::nio::BufferFactory::createShortBuffer (std::vector< short > & buffer) [static]`

Wraps the passed STL Short Vector in a ShortBuffer. The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.20 `static decaf::nio::ShortBuffer* decaf::internal::nio::BufferFactory::createShortBuffer (short * buffer, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new ShortBuffer. The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new DoubleBuffer that is backed by *buffer*, caller owns.

6.110.3.21 `static decaf::nio::ShortBuffer* decaf::internal::nio::BufferFactory::createShortBuffer (std::size_t capacity) [static]`

Allocates a new short buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated DoubleBuffer which the caller owns.

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/nio/BufferFactory.h`

6.111 decaf::nio::BufferOverflowException Class Reference

#include <src/main/decaf/nio/BufferOverflowException.h> Inheritance diagram for decaf::nio::BufferOverflowException:

Public Member Functions

- **BufferOverflowException** () throw ()
Default Constructor.
- **BufferOverflowException** (const lang::Exception &ex) throw ()
Copy Constructor.
- **BufferOverflowException** (const **BufferOverflowException** &ex) throw ()
Copy Constructor.
- **BufferOverflowException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **BufferOverflowException** (const std::exception *cause) throw ()
Constructor.
- **BufferOverflowException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor.
- virtual **BufferOverflowException** * clone () const
Clones this exception.
- virtual ~**BufferOverflowException** () throw ()

6.111.1 Constructor & Destructor Documentation

6.111.1.1 decaf::nio::BufferOverflowException::BufferOverflowException () throw () [inline]

Default Constructor.

6.111.1.2 decaf::nio::BufferOverflowException::BufferOverflowException (const lang::Exception & ex) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy

6.111.1.3 decaf::nio::BufferOverflowException::BufferOverflowException (const BufferOverflowException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy, which is an instance of this type

6.111.1.4 decaf::nio::BufferOverflowException::BufferOverflowException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.111.1.5 decaf::nio::BufferOverflowException::BufferOverflowException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.111.1.6 decaf::nio::BufferOverflowException::BufferOverflowException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor.

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.111.1.7 `virtual decaf::nio::BufferOverflowException::~~BufferOverflowException
() throw () [inline, virtual]`

6.111.2 Member Function Documentation

6.111.2.1 `virtual BufferOverflowException* de-
caf::nio::BufferOverflowException::clone () const [inline,
virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/BufferOverflowException.h`

6.112 decaf::nio::BufferUnderflowException Class Reference

#include <src/main/decaf/nio/BufferUnderflowException.h> Inheritance diagram for decaf::nio::BufferUnderflowException:

Public Member Functions

- **BufferUnderflowException** () throw ()
Default Constructor.
- **BufferUnderflowException** (const lang::Exception &ex) throw ()
Copy Constructor.
- **BufferUnderflowException** (const BufferUnderflowException &ex) throw ()
Copy Constructor.
- **BufferUnderflowException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **BufferUnderflowException** (const std::exception *cause) throw ()
Constructor.
- **BufferUnderflowException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor.
- virtual **BufferUnderflowException** * clone () const
Clones this exception.
- virtual ~**BufferUnderflowException** () throw ()

6.112.1 Constructor & Destructor Documentation

6.112.1.1 decaf::nio::BufferUnderflowException::BufferUnderflowException () throw () [inline]

Default Constructor.

6.112.1.2 decaf::nio::BufferUnderflowException::BufferUnderflowException (const lang::Exception & ex) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy

6.112.1.3 `decaf::nio::BufferUnderflowException::BufferUnderflowException (const BufferUnderflowException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex the exception to copy, which is an instance of this type

6.112.1.4 `decaf::nio::BufferUnderflowException::BufferUnderflowException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.112.1.5 `decaf::nio::BufferUnderflowException::BufferUnderflowException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.112.1.6 `decaf::nio::BufferUnderflowException::BufferUnderflowException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor.

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.112.1.7 **virtual**
decaf::nio::BufferUnderflowException::~~BufferUnderflowException ()
throw () [inline, virtual]

6.112.2 Member Function Documentation

6.112.2.1 **virtual BufferUnderflowException* de-**
caf::nio::BufferUnderflowException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/BufferUnderflowException.h`

6.113 decaf::lang::Byte Class Reference

#include <src/main/decaf/lang/Byte.h> Inheritance diagram for decaf::lang::Byte:

Public Member Functions

- **Byte** (unsigned char value)
- **Byte** (const std::string &value) throw (exceptions::NumberFormatException)
- virtual ~**Byte** ()
- virtual int **compareTo** (const **Byte** &c) const
*Compares this **Byte** (p. 664) instance with another.*
- virtual bool **operator==** (const **Byte** &c) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Byte** &c) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual int **compareTo** (const unsigned char &c) const
*Compares this **Byte** (p. 664) instance with a char type.*
- virtual bool **operator==** (const unsigned char &c) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const unsigned char &c) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- bool **equals** (const **Byte** &c) const
- bool **equals** (const unsigned char &c) const
- std::string **toString** () const
- virtual double **doubleValue** () const
Answers the double value which the receiver represents.
- virtual float **floatValue** () const
Answers the float value which the receiver represents.
- virtual unsigned char **byteValue** () const
Answers the byte value which the receiver represents.
- virtual short **shortValue** () const
Answers the short value which the receiver represents.
- virtual int **intValue** () const
Answers the int value which the receiver represents.
- virtual long long **longValue** () const
Answers the long value which the receiver represents.

Static Public Member Functions

- static std::string **toString** (unsigned char value)
- static **Byte decode** (const std::string &value) throw (exceptions::NumberFormatException)
*Decodes a String into a **Byte** (p. 664).*
- static unsigned char **parseByte** (const std::string &s, int radix) throw (exceptions::NumberFormatException)
Parses the string argument as a signed unsigned char in the radix specified by the second argument.
- static unsigned char **parseByte** (const std::string &s) throw (exceptions::NumberFormatException)
Parses the string argument as a signed decimal unsigned char.
- static **Byte valueOf** (unsigned char value)
*Returns a **Character** (p. 801) instance representing the specified char value.*
- static **Byte valueOf** (const std::string &value) throw (exceptions::NumberFormatException)
*Returns a **Byte** (p. 664) object holding the value given by the specified std::string.*
- static **Byte valueOf** (const std::string &value, int radix) throw (exceptions::NumberFormatException)
*Returns a **Byte** (p. 664) object holding the value extracted from the specified std::string when parsed with the radix given by the second argument.*

Static Public Attributes

- static const unsigned char **MIN_VALUE** = 0x7F
The minimum value that a unsigned char can take on.
- static const unsigned char **MAX_VALUE** = 0x80
The maximum value that a unsigned char can take on.
- static const int **SIZE** = 8
The size of the primitive charactor in bits.

6.113.1 Constructor & Destructor Documentation

6.113.1.1 decaf::lang::Byte::Byte (unsigned char *value*)

Parameters:

value - the primitive value to wrap

6.113.1.2 `decaf::lang::Byte::Byte (const std::string & value) throw (exceptions::NumberFormatException)`

Parameters:

value - the string to convert to an unsigned char

Exceptions:

NumberFormatException

6.113.1.3 `virtual decaf::lang::Byte::~~Byte () [inline, virtual]`

6.113.2 Member Function Documentation

6.113.2.1 `virtual unsigned char decaf::lang::Byte::byteValue () const [inline, virtual]`

Answers the byte value which the receiver represents.

Returns:

byte the value of the receiver.

Reimplemented from `decaf::lang::Number` (p.1954).

6.113.2.2 `virtual int decaf::lang::Byte::compareTo (const unsigned char & c) const [inline, virtual]`

Compares this `Byte` (p.664) instance with a char type.

Parameters:

c - the char instance to be compared

Returns:

zero if this object represents the same char value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

Implements `decaf::lang::Comparable< unsigned char >` (p.899).

6.113.2.3 `virtual int decaf::lang::Byte::compareTo (const Byte & c) const [inline, virtual]`

Compares this `Byte` (p.664) instance with another.

Parameters:

c - the `Byte` (p.664) instance to be compared

Returns:

zero if this object represents the same char value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

6.113.2.4 static Byte decaf::lang::Byte::decode (const std::string & *value*) throw (exceptions::NumberFormatException) [static]

Decodes a String into a **Byte** (p. 664). Accepts decimal, hexadecimal, and octal numbers given by the following grammar:

The sequence of characters following an (optional) negative sign and/or radix specifier ("0x", "0X", "#", or leading zero) is parsed as by the **Byte::parseByte** (p. 670) method with the indicated radix (10, 16, or 8). This sequence of characters must represent a positive value or a NumberFormatException will be thrown. The result is negated if first character of the specified String is the minus sign. No whitespace characters are permitted in the string.

Parameters:

value - The string to decode

Returns:

a **Byte** (p. 664) object containing the decoded value

Exceptions:

NumberFormatException if the string is not formatted correctly.

6.113.2.5 virtual double decaf::lang::Byte::doubleValue () const [inline, virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.113.2.6 bool decaf::lang::Byte::equals (const unsigned char & *c*) const [inline, virtual]

Returns:

true if the two Bytes have the same value.

Implements **decaf::lang::Comparable< unsigned char >** (p. 900).

6.113.2.7 bool decaf::lang::Byte::equals (const Byte & *c*) const [inline]

Returns:

true if the two **Byte** (p. 664) Objects have the same value.

6.113.2.8 `virtual float decaf::lang::Byte::floatValue () const [inline, virtual]`

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.113.2.9 `virtual int decaf::lang::Byte::intValue () const [inline, virtual]`

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.113.2.10 `virtual long long decaf::lang::Byte::longValue () const [inline, virtual]`

Answers the long value which the receiver represents.

Returns:

long long the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.113.2.11 `virtual bool decaf::lang::Byte::operator< (const unsigned char & c) const [inline, virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable< unsigned char >** (p.900).

6.113.2.12 `virtual bool decaf::lang::Byte::operator< (const Byte & c) const [inline, virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.113.2.13 `virtual bool decaf::lang::Byte::operator==(const unsigned char & c)
const [inline, virtual]`

Compares equality between this object and the one passed.

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements `decaf::lang::Comparable< unsigned char >` (p. 901).

6.113.2.14 `virtual bool decaf::lang::Byte::operator==(const Byte & c) const
[inline, virtual]`

Compares equality between this object and the one passed.

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.113.2.15 `static unsigned char decaf::lang::Byte::parseByte(const std::string & s)
throw (exceptions::NumberFormatException) [static]`

Parses the string argument as a signed decimal unsigned char. The characters in the string must all be decimal digits, except that the first character may be an ASCII minus sign '-' to indicate a negative value. The resulting unsigned char value is returned, exactly as if the argument and the radix 10 were given as arguments to the `parseByte(const std::string, int)` method.

Parameters:

s - String to convert to a unsigned char

Returns:

the converted unsigned char value

Exceptions:

NumberFormatException if the string is not a unsigned char.

6.113.2.16 `static unsigned char decaf::lang::Byte::parseByte (const std::string & s, int radix) throw (exceptions::NumberFormatException) [static]`

Parses the string argument as a signed unsigned char in the radix specified by the second argument. The characters in the string must all be digits, of the specified radix (as determined by whether **Character.digit(char, int)** (p. 804) returns a nonnegative value) except that the first character may be an ASCII minus sign '-' to indicate a negative value. The resulting byte value is returned.

An exception of type `NumberFormatException` is thrown if any of the following situations occurs:
 * The first argument is null or is a string of length zero. * The radix is either smaller than **Character.MIN_RADIX** (p. 808) or larger than **Character::MAX_RADIX** (p. 807). * Any character of the string is not a digit of the specified radix, except that the first character may be a minus sign '-' provided that the string is longer than length 1. * The value represented by the string is not a value of type unsigned char.

Parameters:

s - the String containing the unsigned char to be parsed

radix - the radix to be used while parsing s

Returns:

the unsigned char represented by the string argument in the specified radix.

Exceptions:

NumberFormatException - If String does not contain a parsable unsigned char.

6.113.2.17 `virtual short decaf::lang::Byte::shortValue () const [inline, virtual]`

Answers the short value which the receiver represents.

Returns:

short the value of the receiver.

Reimplemented from `decaf::lang::Number` (p. 1956).

6.113.2.18 `static std::string decaf::lang::Byte::toString (unsigned char value) [static]`

Returns:

a string representing the primitive value as Base 10

6.113.2.19 `std::string decaf::lang::Byte::toString () const`

Returns:

this **Byte** (p. 664) Object as a String Representation

6.113.2.20 static Byte decaf::lang::Byte::valueOf (const std::string & *value*, int *radix*) throw (exceptions::NumberFormatException) [static]

Returns a **Byte** (p. 664) object holding the value extracted from the specified std::string when parsed with the radix given by the second argument. The first argument is interpreted as representing a signed unsigned char in the radix specified by the second argument, exactly as if the argument were given to the parseByte(std::string, int) method. The result is a **Byte** (p. 664) object that represents the unsigned char value specified by the string.

Parameters:

value - std::string to parse as base (radix)

radix - base of the string to parse.

Returns:

new **Byte** (p. 664) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a valid unsigned char.

6.113.2.21 static Byte decaf::lang::Byte::valueOf (const std::string & *value*) throw (exceptions::NumberFormatException) [static]

Returns a **Byte** (p. 664) object holding the value given by the specified std::string. The argument is interpreted as representing a signed decimal unsigned char, exactly as if the argument were given to the parseByte(std::string) method. The result is a **Byte** (p. 664) object that represents the unsigned char value specified by the string.

Parameters:

value - std::string to parse as base 10

Returns:

new **Byte** (p. 664) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a decimal unsigned char.

6.113.2.22 static Byte decaf::lang::Byte::valueOf (unsigned char *value*) [inline, static]

Returns a **Character** (p. 801) instance representing the specified char value.

Parameters:

value - the primitive char to wrap.

Returns:

a new **Character** (p. 801) instance that wraps this value.

6.113.3 Field Documentation

6.113.3.1 `const unsigned char decaf::lang::Byte::MAX_VALUE = 0x80` [static]

The maximum value that a unsigned char can take on.

6.113.3.2 `const unsigned char decaf::lang::Byte::MIN_VALUE = 0x7F` [static]

The minimum value that a unsigned char can take on.

6.113.3.3 `const int decaf::lang::Byte::SIZE = 8` [static]

The size of the primitive charactor in bits.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Byte.h`

6.114 decaf::internal::util::ByteArrayAdapter Class Reference

This class adapts primitive type arrays to a base byte array so that the classes can inter-operate on the same base byte array without copying data.

#include <src/main/decaf/internal/util/ByteArrayAdapter.h> Inheritance diagram for decaf::internal::util::ByteArrayAdapter:

Data Structures

- union **Array**

Public Member Functions

- **ByteArrayAdapter** (std::size_t capacity)
Creates a byte array object that is allocated internally and is then owned and deleted when this object is deleted.
- **ByteArrayAdapter** (unsigned char *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- **ByteArrayAdapter** (char *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- **ByteArrayAdapter** (double *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- **ByteArrayAdapter** (float *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- **ByteArrayAdapter** (long long *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- **ByteArrayAdapter** (int *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- **ByteArrayAdapter** (short *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- virtual ~**ByteArrayAdapter** ()

- virtual std::size_t **getCapacity** () const
Gets the capacity of the underlying array.
- virtual std::size_t **getCharCapacity** () const
Gets the capacity of the underlying array as if it contains chars.
- virtual std::size_t **getDoubleCapacity** () const
Gets the capacity of the underlying array as if it contains doubles.
- virtual std::size_t **getFloatCapacity** () const
Gets the capacity of the underlying array as if it contains doubles.
- virtual std::size_t **getLongCapacity** () const
Gets the capacity of the underlying array as if it contains doubles.
- virtual std::size_t **getIntCapacity** () const
Gets the capacity of the underlying array as if it contains ints.
- virtual std::size_t **getShortCapacity** () const
Gets the capacity of the underlying array as if it contains shorts.
- virtual unsigned char * **getByteArray** ()
Gets the pointer to the array we are wrapping.
- virtual char * **getCharArray** ()
Gets the pointer to the array we are wrapping.
- virtual short * **getShortArray** ()
Gets the pointer to the array we are wrapping.
- virtual int * **getIntArray** ()
Gets the pointer to the array we are wrapping.
- virtual long long * **getLongArray** ()
Gets the pointer to the array we are wrapping.
- virtual double * **getDoubleArray** ()
Gets the pointer to the array we are wrapping.
- virtual float * **getFloatArray** ()
Gets the pointer to the array we are wrapping.
- virtual void **read** (unsigned char *buffer, std::size_t offset, std::size_t length) const throw (decaf::lang::exceptions::NullPointerException, decaf::nio::BufferUnderflowException)
Reads from the Byte array starting at the specified offset and reading the specified length.
- virtual void **write** (unsigned char *buffer, std::size_t offset, std::size_t length) throw (decaf::lang::exceptions::NullPointerException, decaf::nio::BufferOverflowException)
*Writes from the Byte array given, starting at the specified offset and writing the specified amount of data into this objects **internal** (p. 95) array.*

- virtual void **resize** (std::size_t capacity) throw (lang::exceptions::InvalidStateException)
Resizes the underlying array to the new given capacity, preserving all the Data that was previously in the array, unless the resize is smaller than the current size in which case only the data that will fit into the new array is preserved.
- virtual void **clear** ()
Clear all data from that Array, setting the underlying bytes to zero.
- unsigned char & **operator[]** (std::size_t index) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
*Allows the **ByteArrayAdapter** (p. 673) to be indexed as a standard array.*
- const unsigned char & **operator[]** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)
- virtual unsigned char **get** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- virtual char **getChar** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads one byte at the given index and returns it.
- virtual double **getDouble** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads eight bytes at the given index and returns it.
- virtual double **getDoubleAt** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads eight bytes at the given byte index and returns it.
- virtual float **getFloat** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads four bytes at the given index and returns it.
- virtual float **getFloatAt** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads four bytes at the given byte index and returns it.
- virtual long long **getLong** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads eight bytes at the given index and returns it.
- virtual long long **getLongAt** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads eight bytes at the given byte index and returns it.
- virtual int **getInt** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads four bytes at the given index and returns it.

- virtual int **getIntAt** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads four bytes at the given byte index and returns it.
- virtual short **getShort** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads two bytes at the given index and returns it.
- virtual short **getShortAt** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads two bytes at the given byte index and returns it.
- virtual **ByteArrayAdapter** & **put** (std::size_t index, unsigned char value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes the given byte into this buffer at the given index.
- virtual **ByteArrayAdapter** & **putChar** (std::size_t index, char value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes one byte containing the given value, into this buffer at the given index.
- virtual **ByteArrayAdapter** & **putDouble** (std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes eight bytes containing the given value, into this buffer at the given index.
- virtual **ByteArrayAdapter** & **putDoubleAt** (std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes eight bytes containing the given value, into this buffer at the given byte index.
- virtual **ByteArrayAdapter** & **putFloat** (std::size_t index, float value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes four bytes containing the given value, into this buffer at the given index.
- virtual **ByteArrayAdapter** & **putFloatAt** (std::size_t index, float value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes four bytes containing the given value, into this buffer at the given byte index.
- virtual **ByteArrayAdapter** & **putLong** (std::size_t index, long long value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes eight bytes containing the given value, into this buffer at the given index.
- virtual **ByteArrayAdapter** & **putLongAt** (std::size_t index, long long value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes eight bytes containing the given value, into this buffer at the given byte index.
- virtual **ByteArrayAdapter** & **putInt** (std::size_t index, int value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes four bytes containing the given value, into this buffer at the given index.
- virtual **ByteArrayAdapter** & **putIntAt** (std::size_t index, int value) throw (lang::exceptions::IndexOutOfBoundsException)
Writes four bytes containing the given value, into this buffer at the given byte index.

- virtual **ByteArrayAdapter** & **putShort** (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException)

Writes two bytes containing the given value, into this buffer at the given index.

- virtual **ByteArrayAdapter** & **putShortAt** (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException)

Writes two bytes containing the given value, into this buffer at the given byte index.

6.114.1 Detailed Description

This class adapts primitive type arrays to a base byte array so that the classes can inter-operate on the same base byte array without copying data. All the array types are mapped down to a byte array and methods are supplied for accessing the data in any of the primitive type forms.

Methods in this class that do not return a specific value return a reference to this object so that calls can be chained.

6.114.2 Constructor & Destructor Documentation

6.114.2.1 decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (std::size_t capacity)

Creates a byte array object that is allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

6.114.2.2 decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (unsigned char * array, std::size_t capacity, bool own = false) throw (lang::exceptions::NullPointerException)

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.114.2.3 `decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (char * array, std::size_t capacity, bool own = false) throw (lang::exceptions::NullPointerException)`

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.114.2.4 `decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (double * array, std::size_t capacity, bool own = false) throw (lang::exceptions::NullPointerException)`

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.114.2.5 `decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (float * array, std::size_t capacity, bool own = false) throw (lang::exceptions::NullPointerException)`

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.114.2.6 decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (long * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.114.2.7 decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (int * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.114.2.8 decaf::internal::util::ByteArrayAdapter::ByteArrayAdapter (short * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.114.2.9 `virtual decaf::internal::util::ByteArrayAdapter::~~ByteArrayAdapter ()`
[virtual]

6.114.3 Member Function Documentation

6.114.3.1 `virtual void decaf::internal::util::ByteArrayAdapter::clear ()` [virtual]

Clear all data from that Array, setting the underlying bytes to zero.

6.114.3.2 `virtual unsigned char decaf::internal::util::ByteArrayAdapter::get`
`(std::size_t index) const throw (`
`lang::exceptions::IndexOutOfBoundsException)`
[virtual]

Absolute get method. Reads the byte at the given index.

Parameters:

index - the index in the Buffer where the byte is to be read

Returns:

the byte that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

6.114.3.3 `virtual unsigned char* de-`
`caf::internal::util::ByteArrayAdapter::getByteArray ()`
[inline, virtual]

Gets the pointer to the array we are wrapping. Changes to the data in this array are reflected by all **ByteArrayAdapter** (p.673) objects that point to this array.

Returns:

an unsigned char* pointer to the array this object wraps.

6.114.3.4 `virtual std::size_t decaf::internal::util::ByteArrayAdapter::getCapacity ()`
`const` [inline, virtual]

Gets the capacity of the underlying array.

Returns:

the size the array.

6.114.3.5 `virtual char decaf::internal::util::ByteArrayAdapter::getChar (std::size_t`
`index) const throw (lang::exceptions::IndexOutOfBoundsException)`
[inline, virtual]

Reads one byte at the given index and returns it.

Parameters:

index - the index in the Buffer where the byte is to be read

Returns:

the char at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

6.114.3.6 virtual char* decaf::internal::util::ByteArrayAdapter::getCharArray ()
[inline, virtual]

Gets the pointer to the array we are wrapping. Changes to the data in this array are reflected by all **ByteArrayAdapter** (p.673) objects that point to this array.

Returns:

an char* pointer to the array this object wraps.

6.114.3.7 virtual std::size_t decaf::internal::util::ByteArrayAdapter::getCharCapacity ()
const [inline, virtual]

Gets the capacity of the underlying array as if it contains chars.

Returns:

the size the array.

6.114.3.8 virtual double decaf::internal::util::ByteArrayAdapter::getDouble
(std::size_t *index*) const throw (
lang::exceptions::IndexOutOfBoundsException)
[virtual]

Reads eight bytes at the given index and returns it. The index is a relative to the size of the type to be read, in otherwords when accessing the element in the array index * sizeof(type) if the actual start index of the type to be read.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the double at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.9 `virtual double* decaf::internal::util::ByteArrayAdapter::getDoubleArray
() [inline, virtual]`

Gets the pointer to the array we are wrapping. Changes to the data in this array are reflected by all **ByteArrayAdapter** (p.673) objects that point to this array.

Returns:

an double* pointer to the array this object wraps.

6.114.3.10 `virtual double decaf::internal::util::ByteArrayAdapter::getDoubleAt
(std::size_t index) const throw (
lang::exceptions::IndexOutOfBoundsException)
[virtual]`

Reads eight bytes at the given byte index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the double at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.11 `virtual std::size_t decaf::internal::util::ByteArrayAdapter::getDoubleCapacity
() const [inline, virtual]`

Gets the capacity of the underlying array as if it contains doubles.

Returns:

the size the array.

6.114.3.12 `virtual float decaf::internal::util::ByteArrayAdapter::getFloat
(std::size_t index) const throw (
lang::exceptions::IndexOutOfBoundsException)
[virtual]`

Reads four bytes at the given index and returns it. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the float at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.13 virtual float* decaf::internal::util::ByteArrayAdapter::getFloatArray ()
[inline, virtual]

Gets the pointer to the array we are wrapping. Changes to the data in this array are reflected by all **ByteArrayAdapter** (p.673) objects that point to this array.

Returns:

an float* pointer to the array this object wraps.

6.114.3.14 virtual float decaf::internal::util::ByteArrayAdapter::getFloatAt
(std::size_t *index*) const throw (
lang::exceptions::IndexOutOfBoundsException)
[virtual]

Reads four bytes at the given byte index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the float at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.15 virtual std::size_t de-
caf::internal::util::ByteArrayAdapter::getFloatCapacity ()
const [inline, virtual]

Gets the capacity of the underlying array as if it contains doubles.

Returns:

the size the array.

6.114.3.16 `virtual int decaf::internal::util::ByteArrayAdapter::getInt (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)`
[virtual]

Reads four bytes at the given index and returns it. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the int at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.17 `virtual int* decaf::internal::util::ByteArrayAdapter::getIntArray ()`
[inline, virtual]

Gets the pointer to the array we are wrapping. Changes to the data in this array are reflected by all **ByteArrayAdapter** (p.673) objects that point to this array.

Returns:

an int* pointer to the array this object wraps.

6.114.3.18 `virtual int decaf::internal::util::ByteArrayAdapter::getIntAt (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)`
[virtual]

Reads four bytes at the given byte index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the int at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.19 `virtual std::size_t decaf::internal::util::ByteArrayAdapter::getIntCapacity () const [inline, virtual]`

Gets the capacity of the underlying array as if it contains ints.

Returns:

the size the array.

6.114.3.20 `virtual long long decaf::internal::util::ByteArrayAdapter::getLong (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]`

Reads eight bytes at the given index and returns it. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the long long at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.21 `virtual long long* decaf::internal::util::ByteArrayAdapter::getLongArray () [inline, virtual]`

Gets the pointer to the array we are wrapping. Changes to the data in this array are reflected by all **ByteArrayAdapter** (p.673) objects that point to this array.

Returns:

an long long* pointer to the array this object wraps.

6.114.3.22 `virtual long long decaf::internal::util::ByteArrayAdapter::getLongAt (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]`

Reads eight bytes at the given byte index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the long long at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.23 `virtual std::size_t decaf::internal::util::ByteArrayAdapter::getLongCapacity () const [inline, virtual]`

Gets the capacity of the underlying array as if it contains doubles.

Returns:

the size the array.

6.114.3.24 `virtual short decaf::internal::util::ByteArrayAdapter::getShort (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]`

Reads two bytes at the given index and returns it. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the short at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.25 `virtual short* decaf::internal::util::ByteArrayAdapter::getShortArray () [inline, virtual]`

Gets the pointer to the array we are wrapping. Changes to the data in this array are reflected by all **ByteArrayAdapter** (p.673) objects that point to this array.

Returns:

an short* pointer to the array this object wraps.

6.114.3.26 virtual short decaf::internal::util::ByteArrayAdapter::getShortAt (std::size_t *index*) const throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]

Reads two bytes at the given byte index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the short at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

6.114.3.27 virtual std::size_t decaf::internal::util::ByteArrayAdapter::getShortCapacity () const [inline, virtual]

Gets the capacity of the underlying array as if it contains shorts.

Returns:

the size the array.

6.114.3.28 const unsigned char& decaf::internal::util::ByteArrayAdapter::operator[] (std::size_t *index*) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)

6.114.3.29 unsigned char& decaf::internal::util::ByteArrayAdapter::operator[] (std::size_t *index*) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Allows the **ByteArrayAdapter** (p. 673) to be indexed as a standard array. calling the non const version allows the user to change the value at index

Parameters:

index - the position in the array to access

Exceptions:

IndexOutOfBoundsException

6.114.3.30 `virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::put (std::size_t index, unsigned char value) throw (lang::exceptions::IndexOutOfBoundsException)` [virtual]

Writes the given byte into this buffer at the given index. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - position in the Buffer to write the data

value - the byte to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.31 `virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putChar (std::size_t index, char value) throw (lang::exceptions::IndexOutOfBoundsException)` [virtual]

Writes one byte containing the given value, into this buffer at the given index. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.32 `virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putDouble (std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException)` [virtual]

Writes eight bytes containing the given value, into this buffer at the given index. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.33 virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putDoubleAt (std::size_t *index*, double *value*) throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]

Writes eight bytes containing the given value, into this buffer at the given byte index.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.34 virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putFloat (std::size_t *index*, float *value*) throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]

Writes four bytes containing the given value, into this buffer at the given index. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.35 `virtual ByteArrayAdapter& de-
caf::internal::util::ByteArrayAdapter::putFloatAt (std::size_t index,
float value) throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]`

Writes four bytes containing the given value, into this buffer at the given byte index.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.36 `virtual ByteArrayAdapter& de-
caf::internal::util::ByteArrayAdapter::putInt (std::size_t
index, int value) throw (lang::exceptions::IndexOutOfBoundsException
) [virtual]`

Writes four bytes containing the given value, into this buffer at the given index. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.37 `virtual ByteArrayAdapter& de-
caf::internal::util::ByteArrayAdapter::putIntAt (std::size_t index,
int value) throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]`

Writes four bytes containing the given value, into this buffer at the given byte index.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.38 virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putLong (std::size_t *index*, long long *value*) throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]

Writes eight bytes containing the given value, into this buffer at the given index. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.39 virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putLongAt (std::size_t *index*, long long *value*) throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]

Writes eight bytes containing the given value, into this buffer at the given byte index.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.40 `virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putShort (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException)` [virtual]

Writes two bytes containing the given value, into this buffer at the given index. The index is a relative to the size of the type to be read, in other words when accessing the element in the array `index * sizeof(type)` if the actual start index of the type to be read.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.41 `virtual ByteArrayAdapter& decaf::internal::util::ByteArrayAdapter::putShortAt (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException)` [virtual]

Writes two bytes containing the given value, into this buffer at the given byte index.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

6.114.3.42 `virtual void decaf::internal::util::ByteArrayAdapter::read (unsigned char * buffer, std::size_t offset, std::size_t length) const throw (decaf::lang::exceptions::NullPointerException, decaf::nio::BufferUnderflowException)` [virtual]

Reads from the Byte array starting at the specified offset and reading the specified length. If the length is greater than the capacity of this underlying byte array then an `BufferUnderflowException` is thrown.

Parameters:

buffer - the buffer to read data from this array into.

offset - position in this array to start reading from.

length - the amount of data to read from this array.

Exceptions:

NullPointerException if buffer is null

BufferUnderflowException if there is not enough data to read because the offset or the length is greater than the size of this array.

6.114.3.43 virtual void decaf::internal::util::ByteArrayAdapter::resize (std::size_t *capacity*) throw (lang::exceptions::InvalidStateException) [virtual]

Resizes the underlying array to the new given capacity, preserving all the Data that was previously in the array, unless the resize is smaller than the current size in which case only the data that will fit into the new array is preserved. A **ByteArrayAdapter** (p. 673) can only be resized when it owns the underlying array, if it does not then it will throw an *InvalidStateException*.

Parameters:

capacity - the new capacity of the array.

Exceptions:

InvalidStateException if this object does not own the buffer.

6.114.3.44 virtual void decaf::internal::util::ByteArrayAdapter::write (unsigned char * *buffer*, std::size_t *offset*, std::size_t *length*) throw (decaf::lang::exceptions::NullPointerException, decaf::nio::BufferOverflowException) [virtual]

Writes from the Byte array given, starting at the specified offset and writing the specified amount of data into this objects **internal** (p. 95) array. . If the length is greater than the capacity of this underlying byte array then an *BufferOverflowException* is thrown.

Parameters:

buffer - the buffer to write get data written into this array.

offset - position in this array to start writing from.

length - the amount of data to write to this array.

Exceptions:

NullPointerException if buffer is null

BufferOverflowException if the amount of data to be written to this array or the offset given are larger than this array's capacity.

The documentation for this class was generated from the following file:

- src/main/decaf/internal/util/**ByteArrayAdapter.h**

6.115 decaf::internal::nio::ByteBuffer Class Reference

This class defines six categories of operations upon byte buffers:.

#include <src/main/decaf/internal/nio/ByteBuffer.h> Inheritance diagram for decaf::internal::nio::ByteBuffer:

Public Member Functions

- **ByteBuffer** (std::size_t capacity, bool readOnly=false)
*Creates a **ByteBuffer** (p. 694) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*
- **ByteBuffer** (unsigned char *array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::NullPointerException)
*Creates a **ByteBuffer** (p. 694) object that wraps the given array.*
- **ByteBuffer** (ByteBufferPerspective &array, std::size_t offset, std::size_t length, bool readOnly=false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
*Creates a byte buffer that wraps the passed **ByteBufferPerspective** (p. 729) and start at the given offset.*
- **ByteBuffer** (const ByteBuffer &other)
*Create a **ByteBuffer** (p. 694) that mirrors this one, meaning it shares a reference to this buffers **ByteBufferPerspective** (p. 729) and when changes are made to that data it is reflected in both.*
- virtual ~ByteBuffer ()
- virtual bool isReadOnly () const
Tells whether or not this buffer is read-only.
- virtual unsigned char * array () throw (decaf::nio::ReadOnlyBufferException, decaf::lang::exceptions::UnsupportedOperationException)
Returns the byte array that backs this buffer.
- virtual std::size_t arrayOffset () const throw (decaf::nio::ReadOnlyBufferException, lang::exceptions::UnsupportedOperationException)
Returns the offset within this buffer's backing array of the first element of the buffer.
- virtual bool hasArray () const
Tells whether or not this buffer is backed by an accessible byte array.
- virtual decaf::nio::CharBuffer * asCharBuffer () const
Creates a view of this byte buffer as a char buffer.
- virtual decaf::nio::DoubleBuffer * asDoubleBuffer () const
Creates a view of this byte buffer as a double buffer.
- virtual decaf::nio::FloatBuffer * asFloatBuffer () const

Creates a view of this byte buffer as a float buffer.

- virtual **decaf::nio::IntBuffer** * **asIntBuffer** () const
Creates a view of this byte buffer as a int buffer.
- virtual **decaf::nio::LongBuffer** * **asLongBuffer** () const
Creates a view of this byte buffer as a long buffer.
- virtual **decaf::nio::ShortBuffer** * **asShortBuffer** () const
Creates a view of this byte buffer as a short buffer.
- virtual **ByteBuffer** * **asReadOnlyBuffer** () const
Creates a new, read-only byte buffer that shares this buffer's content.
- virtual **ByteBuffer** & **compact** () throw (decaf::nio::ReadOnlyBufferException)
Compacts this buffer.
- virtual **ByteBuffer** * **duplicate** ()
Creates a new byte buffer that shares this buffer's content.
- virtual unsigned char **get** () const throw (decaf::nio::BufferUnderflowException)
Relative get method.
- virtual unsigned char **get** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- virtual char **getChar** () throw (decaf::nio::BufferUnderflowException)
Reads the next byte at this buffer's current position, and then increments the position by one.
- virtual char **getChar** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads one byte at the given index and returns it.
- virtual double **getDouble** () throw (decaf::nio::BufferUnderflowException)
Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.
- virtual double **getDouble** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads eight bytes at the given index and returns it.
- virtual float **getFloat** () throw (decaf::nio::BufferUnderflowException)
Reads the next four bytes at this buffer's current position, and then increments the position by that amount.
- virtual float **getFloat** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Reads four bytes at the given index and returns it.
- virtual long long **getLong** () throw (decaf::nio::BufferUnderflowException)

Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.

- virtual long long **getLong** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)

Reads eight bytes at the given index and returns it.

- virtual int **getInt** () throw (decaf::nio::BufferUnderflowException)

Reads the next four bytes at this buffer's current position, and then increments the position by that amount.

- virtual int **getInt** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)

Reads four bytes at the given index and returns it.

- virtual short **getShort** () throw (decaf::nio::BufferUnderflowException)

Reads the next two bytes at this buffer's current position, and then increments the position by that amount.

- virtual short **getShort** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)

Reads two bytes at the given index and returns it.

- virtual **ByteBuffer** & **put** (unsigned char value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)

Writes the given byte into this buffer at the current position, and then increments the position.

- virtual **ByteBuffer** & **put** (std::size_t index, unsigned char value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)

Writes the given byte into this buffer at the given index.

- virtual **ByteBuffer** & **putChar** (char value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)

Writes one byte containing the given value, into this buffer at the current position, and then increments the position by one.

- virtual **ByteBuffer** & **putChar** (std::size_t index, char value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)

Writes one byte containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putDouble** (double value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)

Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putDouble** (std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)

Writes eight bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putFloat** (float value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putFloat** (std::size_t index, float value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)

Writes four bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putLong** (long long value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)

Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putLong** (std::size_t index, long long value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)

Writes eight bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putInt** (int value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putInt** (std::size_t index, int value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)

Writes four bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putShort** (short value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)

Writes two bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putShort** (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)

Writes two bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** * **slice** () const

Creates a new byte buffer whose content is a shared subsequence of this buffer's content.

Protected Member Functions

- virtual void **setReadOnly** (bool value)

*Sets this **ByteBuffer** (p. 694) as Read-Only.*

6.115.1 Detailed Description

This class defines six categories of operations upon byte buffers:. 1. Absolute and relative get and put methods that read and write single bytes; 2. Relative bulk get methods that transfer contiguous sequences of bytes from this buffer into an array; 3. Relative bulk put methods that transfer contiguous sequences of bytes from a byte array or some other byte buffer into this buffer;

4. Absolute and relative get and put methods that read and write values of other primitive types, translating them to and from sequences of bytes in a particular byte order; 5. Methods for creating view buffers, which allow a byte buffer to be viewed as a buffer containing values of some other primitive type; and 6. Methods for compacting, duplicating, and slicing a byte buffer.

Byte buffers can be created either by allocation, which allocates space for the buffer's content, or by wrapping an existing byte array into a buffer.

Access to binary data:

This class defines methods for reading and writing values of all other primitive types, except boolean. Primitive values are translated to (or from) sequences of bytes according to the buffer's current byte order.

For access to heterogeneous binary data, that is, sequences of values of different types, this class defines a family of absolute and relative get and put methods for each type. For 32-bit floating-point values, for example, this class defines:

float **getFloat()** (p. 706) float getFloat(int index) void **putFloat(float f)** (p. 712) void putFloat(int index, float f)

Corresponding methods are defined for the types char, short, int, long, and double. The index parameters of the absolute get and put methods are in terms of bytes rather than of the type being read or written.

For access to homogeneous binary data, that is, sequences of values of the same type, this class defines methods that can create views of a given byte buffer. A view buffer is simply another buffer whose content is backed by the byte buffer. Changes to the byte buffer's content will be visible in the view buffer, and vice versa; the two buffers' position, limit, and mark values are independent. The asFloatBuffer method, for example, creates an instance of the FloatBuffer class that is backed by the byte buffer upon which the method is invoked. Corresponding view-creation methods are defined for the types char, short, int, long, and double.

View buffers have two important advantages over the families of type-specific get and put methods described above:

A view buffer is indexed not in terms of bytes but rather in terms of the type-specific size of its values;

A view buffer provides relative bulk get and put methods that can transfer contiguous sequences of values between a buffer and an array or some other buffer of the same type; and

6.115.2 Constructor & Destructor Documentation

6.115.2.1 `decaf::internal::nio::ByteBuffer::ByteBuffer (std::size_t capacity, bool readOnly = false)`

Creates a **ByteBuffer** (p. 694) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

6.115.2.2 decaf::internal::nio::ByteBuffer::ByteBuffer (unsigned char * *array*, std::size_t *offset*, std::size_t *capacity*, bool *readOnly* = false) throw (decaf::lang::exceptions::NullPointerException)

Creates a **ByteBuffer** (p. 694) object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

offset - the position that is this buffers start pos.

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

Exceptions:

NullPointerException if buffer is NULL

6.115.2.3 decaf::internal::nio::ByteBuffer::ByteBuffer (ByteBufferPerspective & *array*, std::size_t *offset*, std::size_t *length*, bool *readOnly* = false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Creates a byte buffer that wraps the passed **ByteBufferPerspective** (p. 729) and start at the given offset. The capacity and limit of the new **ByteBuffer** (p. 694) will be that of the remaining capacity of the passed buffer.

Parameters:

array - the **ByteBufferPerspective** (p. 729) to wrap

offset - the offset into array where the buffer starts

length - the length of the array we are wrapping or limit.

readOnly - is this a readOnly buffer.

Exceptions:

IndexOutOfBoundsException if offset is greater than array capacity.

6.115.2.4 decaf::internal::nio::ByteBuffer::ByteBuffer (const ByteBuffer & *other*)

Create a **ByteBuffer** (p. 694) that mirrors this one, meaning it shares a reference to this buffers **ByteBufferPerspective** (p. 729) and when changes are made to that data it is reflected in both.

Parameters:

other - the **ByteBuffer** (p. 694) this one is to mirror.

6.115.2.5 `virtual decaf::internal::nio::ByteBuffer::~~ByteBuffer ()`
[virtual]

6.115.3 Member Function Documentation

6.115.3.1 `virtual unsigned char* decaf::internal::nio::ByteBuffer::array`
`() throw (decaf::nio::ReadOnlyBufferException,`
`decaf::lang::exceptions::UnsupportedOperationException)` [virtual]

Returns the byte array that backs this buffer. Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The array that backs this buffer

Exceptions:

ReadOnlyBufferException - If this buffer is backed by an array but is read-only

UnsupportedOperationException - If this buffer is not backed by an accessible array

Implements `decaf::nio::ByteBuffer` (p. 739).

6.115.3.2 `virtual std::size_t decaf::internal::nio::ByteBuffer::arrayOffset`
`() const throw (decaf::nio::ReadOnlyBufferException,`
`lang::exceptions::UnsupportedOperationException)` [virtual]

Returns the offset within this buffer's backing array of the first element of the buffer. If this buffer is backed by an array then buffer position `p` corresponds to array index `p + arrayOffset()` (p. 700).

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset within this buffer's array of the first element of the buffer

Exceptions:

ReadOnlyBufferException - If this buffer is backed by an array but is read-only

UnsupportedOperationException - If this buffer is not backed by an accessible array

Implements `decaf::nio::ByteBuffer` (p. 740).

6.115.3.3 `virtual decaf::nio::CharBuffer* de-`
`caf::internal::nio::ByteBuffer::asCharBuffer () const`
[inline, virtual]

Creates a view of this byte buffer as a char buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new Char Buffer, which the caller then owns.

Implements **decaf::nio::ByteBuffer** (p. 740).

6.115.3.4 virtual decaf::nio::DoubleBuffer* decaf::internal::nio::ByteBuffer::asDoubleBuffer () const [inline, virtual]

Creates a view of this byte buffer as a double buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by eight, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new double Buffer, which the caller then owns.

Implements **decaf::nio::ByteBuffer** (p. 740).

6.115.3.5 virtual decaf::nio::FloatBuffer* decaf::internal::nio::ByteBuffer::asFloatBuffer () const [inline, virtual]

Creates a view of this byte buffer as a float buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by four, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new float Buffer, which the caller then owns.

Implements **decaf::nio::ByteBuffer** (p. 741).

6.115.3.6 virtual decaf::nio::IntBuffer* decaf::internal::nio::ByteBuffer::asIntBuffer () const [inline, virtual]

Creates a view of this byte buffer as a int buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by four, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new `int Buffer`, which the caller then owns.

Implements `decaf::nio::ByteBuffer` (p. 741).

6.115.3.7 `virtual decaf::nio::LongBuffer* decaf::internal::nio::ByteBuffer::asLongBuffer () const`
[inline, virtual]

Creates a view of this byte buffer as a long buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by eight, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new long `Buffer`, which the caller then owns.

Implements `decaf::nio::ByteBuffer` (p. 741).

6.115.3.8 `virtual ByteBuffer* decaf::internal::nio::ByteBuffer::asReadOnlyBuffer () const`
[virtual]

Creates a new, read-only byte buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only byte buffer which the caller then owns.

Implements `decaf::nio::ByteBuffer` (p. 742).

6.115.3.9 `virtual decaf::nio::ShortBuffer* decaf::internal::nio::ByteBuffer::asShortBuffer () const`
[inline, virtual]

Creates a view of this byte buffer as a short buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by two, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new short Buffer, which the caller then owns.

Implements **decaf::nio::ByteBuffer** (p. 742).

6.115.3.10 virtual ByteBuffer& decaf::internal::nio::ByteBuffer::compact () throw (decaf::nio::ReadOnlyBufferException) [virtual]

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \text{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index $\text{limit}()$ (p. 631) - 1 is copied to index $n = \text{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **ByteBuffer** (p. 694)

Exceptions:

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 742).

6.115.3.11 virtual ByteBuffer* decaf::internal::nio::ByteBuffer::duplicate () [virtual]

Creates a new byte buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new Byte Buffer which the caller owns.

Implements **decaf::nio::ByteBuffer** (p. 743).

6.115.3.12 virtual unsigned char decaf::internal::nio::ByteBuffer::get (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]

Absolute get method. Reads the byte at the given index.

Parameters:

index - the index in the Buffer where the byte is to be read

Returns:

the byte that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::ByteBuffer** (p. 743).

6.115.3.13 `virtual unsigned char decaf::internal::nio::ByteArrayBuffer::get () const throw (decaf::nio::BufferUnderflowException) [virtual]`

Relative get method. Reads the byte at this buffer's current position, and then increments the position.

Returns:

The byte at the buffer's current position

Exceptions:

BufferUnderflowException - If the buffer's current position is not smaller than its limit

Implements **decaf::nio::ByteBuffer** (p. 744).

6.115.3.14 `virtual char decaf::internal::nio::ByteArrayBuffer::getChar (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [inline, virtual]`

Reads one byte at the given index and returns it.

Parameters:

index - the index in the Buffer where the byte is to be read

Returns:

the char at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::ByteBuffer** (p. 745).

6.115.3.15 `virtual char decaf::internal::nio::ByteArrayBuffer::getChar () throw (decaf::nio::BufferUnderflowException) [inline, virtual]`

Reads the next byte at this buffer's current position, and then increments the position by one.

Returns:

the next char in the buffer..

Exceptions:

BufferUnderflowException - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implements **decaf::nio::ByteBuffer** (p. 745).

6.115.3.16 virtual double decaf::internal::nio::ByteBuffer::getDouble (std::size_t *index*) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]

Reads eight bytes at the given index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the double at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implements **decaf::nio::ByteBuffer** (p. 746).

6.115.3.17 virtual double decaf::internal::nio::ByteBuffer::getDouble () throw (decaf::nio::BufferUnderflowException) [virtual]

Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next double in the buffer..

Exceptions:

BufferUnderflowException - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implements **decaf::nio::ByteBuffer** (p. 746).

6.115.3.18 virtual float decaf::internal::nio::ByteBuffer::getFloat (std::size_t *index*) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]

Reads four bytes at the given index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the float at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implements **decaf::nio::ByteBuffer** (p. 746).

6.115.3.19 virtual float decaf::internal::nio::ByteArrayBuffer::getFloat () throw (decaf::nio::BufferUnderflowException) [virtual]

Reads the next four bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next float in the buffer..

Exceptions:

BufferUnderflowException - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implements **decaf::nio::ByteBuffer** (p. 747).

6.115.3.20 virtual int decaf::internal::nio::ByteArrayBuffer::getInt (std::size_t *index*) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]

Reads four bytes at the given index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the int at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implements **decaf::nio::ByteBuffer** (p. 747).

6.115.3.21 `virtual int decaf::internal::nio::ByteBuffer::getInt () throw (decaf::nio::BufferUnderflowException) [virtual]`

Reads the next four bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next int in the buffer..

Exceptions:

BufferUnderflowException - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implements `decaf::nio::ByteBuffer` (p. 747).

6.115.3.22 `virtual long long decaf::internal::nio::ByteBuffer::getLong (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]`

Reads eight bytes at the given index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the long long at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implements `decaf::nio::ByteBuffer` (p. 748).

6.115.3.23 `virtual long long decaf::internal::nio::ByteBuffer::getLong () throw (decaf::nio::BufferUnderflowException) [virtual]`

Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next long long in the buffer..

Exceptions:

BufferUnderflowException - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implements `decaf::nio::ByteBuffer` (p. 748).

6.115.3.24 `virtual short decaf::internal::nio::ByteBuffer::getShort (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)` [virtual]

Reads two bytes at the given index and returns it.

Parameters:

index - the index in the Buffer where the bytes are to be read

Returns:

the short at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implements `decaf::nio::ByteBuffer` (p. 748).

6.115.3.25 `virtual short decaf::internal::nio::ByteBuffer::getShort () throw (decaf::nio::BufferUnderflowException)` [virtual]

Reads the next two bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next short in the buffer..

Exceptions:

BufferUnderflowException - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implements `decaf::nio::ByteBuffer` (p. 749).

6.115.3.26 `virtual bool decaf::internal::nio::ByteBuffer::hasArray () const` [inline, virtual]

Tells whether or not this buffer is backed by an accessible byte array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implements `decaf::nio::ByteBuffer` (p. 749).

6.115.3.27 `virtual bool decaf::internal::nio::ByteBuffer::isReadOnly () const` [inline, virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 749).

6.115.3.28 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::put
(std::size_t index, unsigned char value) throw
(lang::exceptions::IndexOutOfBoundsException,
decaf::nio::ReadOnlyBufferException) [virtual]`

Writes the given byte into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the byte to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 750).

6.115.3.29 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::put
(unsigned char value) throw (decaf::nio::BufferOverflowException,
decaf::nio::ReadOnlyBufferException) [virtual]`

Writes the given byte into this buffer at the current position, and then increments the position.

Parameters:

value - the byte value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 750).

6.115.3.30 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putChar (std::size_t index, char value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)` [virtual]

Writes one byte containing the given value, into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.
ReadOnlyBufferException - If this buffer is read-only

Implements `decaf::nio::ByteBuffer` (p. 752).

6.115.3.31 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putChar (char value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)` [virtual]

Writes one byte containing the given value, into this buffer at the current position, and then increments the position by one.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If there are fewer than bytes remaining in this buffer than the size of the data to be written
ReadOnlyBufferException - If this buffer is read-only

Implements `decaf::nio::ByteBuffer` (p. 752).

6.115.3.32 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putDouble (std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)` [virtual]

Writes eight bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 753).

6.115.3.33 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putDouble (double value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException) [virtual]`

Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 753).

6.115.3.34 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putFloat (std::size_t index, float value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]`

Writes four bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 754).

6.115.3.35 **virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putFloat (float *value*) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException) [virtual]**

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 754).

6.115.3.36 **virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putInt (std::size_t *index*, int *value*) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]**

Writes four bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 754).

6.115.3.37 virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putInt (int *value*) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException - If this buffer is read-only

Implements decaf::nio::ByteBuffer (p. 755).

6.115.3.38 virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putLong (std::size_t *index*, long long *value*) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes eight bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements decaf::nio::ByteBuffer (p. 755).

6.115.3.39 virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putLong (long long *value*) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 756).

6.115.3.40 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putShort (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]`

Writes two bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 756).

6.115.3.41 `virtual ByteBuffer& decaf::internal::nio::ByteBuffer::putShort (short value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException) [virtual]`

Writes two bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ByteBuffer** (p. 756).

6.115.3.42 `virtual void decaf::internal::nio::ByteBuffer::setReadOnly (bool value) [inline, protected, virtual]`

Sets this **ByteBuffer** (p. 694) as Read-Only.

Parameters:

value - true if this buffer is to be read-only.

6.115.3.43 `virtual ByteBuffer* decaf::internal::nio::ByteBuffer::slice () const [virtual]`

Creates a new byte buffer whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **ByteBuffer** (p. 694) which the caller owns.

Implements **decaf::nio::ByteBuffer** (p. 757).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/nio/ByteBuffer.h`

6.116 decaf::io::ByteArrayInputStream Class Reference

Simple implementation of **InputStream** (p.1406) that wraps around an STL Vector `std::vector<unsigned char>`.

`#include <src/main/decaf/io/ByteArrayInputStream.h>` Inheritance diagram for `decaf::io::ByteArrayInputStream`:

Public Member Functions

- **ByteArrayInputStream** ()
Default Constructor.
- **ByteArrayInputStream** (const std::vector< unsigned char > &buffer)
Creates the input stream and calls setBuffer with the specified buffer object.
- **ByteArrayInputStream** (const unsigned char *buffer, std::size_t bufferSize)
Constructor.
- virtual ~**ByteArrayInputStream** ()
- virtual void **setBuffer** (const std::vector< unsigned char > &buffer)
*Sets the **internal** (p. 95) buffer.*
- virtual void **setByteArray** (const unsigned char *buffer, std::size_t bufferSize)
Sets the data that this reader uses, replaces any existing data and resets to beginning of the buffer.
- virtual std::size_t **available** () const throw (IOException)
Indicates the number of bytes available.
- virtual unsigned char **read** () throw (IOException)
Reads a single byte from the buffer.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize) throw (IOException, lang::exceptions::NullPointerException)
Reads an array of bytes from the buffer.
- virtual void **close** () throw (lang::Exception)
Closes the target input stream.
- virtual std::size_t **skip** (std::size_t num) throw (io::IOException, lang::exceptions::UnsupportedOperationException)
Skips over and discards n bytes of data from this input stream.
- virtual void **mark** (int readLimit DECAF_UNUSED)
Marks the current position in the stream A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes.
- virtual void **reset** () throw (IOException)

Resets the read index to the beginning of the byte array, unless mark has been called and the markLimit has not been exceeded, in which case the stream is reset to the marked position.

- virtual bool **markSupported** () const

Determines if this input stream supports the mark and reset methods.

Protected Member Functions

- virtual void **lock** () throw (lang::Exception)

Locks the object.

- virtual void **unlock** () throw (lang::Exception)

Unlocks the object.

- virtual void **wait** () throw (lang::Exception)

Waits on a signal from this object, which is generated by a call to Notify.

- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)

Waits on a signal from this object, which is generated by a call to Notify.

- virtual void **notify** () throw (lang::Exception)

Signals a waiter on this object that it can now wake up and continue.

- virtual void **notifyAll** () throw (lang::Exception)

Signals the waiters on this object that it can now wake up and continue.

6.116.1 Detailed Description

Simple implementation of **InputStream** (p.1406) that wraps around an STL Vector `std::vector<unsigned char>`. Closing a **ByteArrayInputStream** (p.716) has no effect. The methods in this class can be called after the stream has been closed without generating an **IOException** (p.1477).

6.116.2 Constructor & Destructor Documentation

6.116.2.1 decaf::io::ByteArrayInputStream::ByteArrayInputStream ()

Default Constructor.

6.116.2.2 decaf::io::ByteArrayInputStream::ByteArrayInputStream (const std::vector< unsigned char > & buffer)

Creates the input stream and calls setBuffer with the specified buffer object.

Parameters:

buffer The buffer to be used.

6.116.2.3 decaf::io::ByteArrayInputStream::ByteArrayInputStream (const unsigned char * *buffer*, std::size_t *bufferSize*)

Constructor.

Parameters:

buffer initial byte array to use to read from

bufferSize the size of the buffer

6.116.2.4 virtual decaf::io::ByteArrayInputStream::~~ByteArrayInputStream () [virtual]

6.116.3 Member Function Documentation

6.116.3.1 virtual std::size_t decaf::io::ByteArrayInputStream::available () const throw (IOException) [inline, virtual]

Indicates the number of bytes available.

Returns:

The number of bytes until the end of the **internal** (p. 95) buffer.

Implements **decaf::io::InputStream** (p. 1407).

6.116.3.2 virtual void decaf::io::ByteArrayInputStream::close () throw (lang::Exception) [inline, virtual]

Closes the target input stream.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implements **decaf::io::Closeable** (p. 840).

6.116.3.3 virtual void decaf::io::ByteArrayInputStream::lock () throw (lang::Exception) [inline, protected, virtual]

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.116.3.4 virtual void decaf::io::ByteArrayInputStream::mark (int readLimit *DECAF_UNUSED*) [inline, virtual]

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes. If a stream

instance reports that marks are supported then the stream will ensure that the same bytes can be read again after the reset method is called so long the readLimit is not reached.

Parameters:

readLimit - max bytes read before marked position is invalid.

Implements **decaf::io::InputStream** (p. 1407).

6.116.3.5 virtual bool decaf::io::ByteArrayInputStream::markSupported () const
[inline, virtual]

Determines if this input stream supports the mark and reset methods. Whether or not mark and reset are supported is an invariant property of a particular input stream instance.

Returns:

true if this stream instance supports marks

Implements **decaf::io::InputStream** (p. 1407).

6.116.3.6 virtual void decaf::io::ByteArrayInputStream::notify () throw (
lang::Exception) [inline, protected, virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.116.3.7 virtual void decaf::io::ByteArrayInputStream::notifyAll () throw (
lang::Exception) [inline, protected, virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.116.3.8 virtual int decaf::io::ByteArrayInputStream::read (unsigned char *
buffer, std::size_t offset, std::size_t bufferSize) throw (IOException,
lang::exceptions::NullPointerException) [virtual]

Reads an array of bytes from the buffer.

Parameters:

buffer (out) the target buffer.

offset the position in the buffer to start reading from.

bufferSize the size of the output buffer.

Returns:

The number of bytes read.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implements **decaf::io::InputStream** (p. 1408).

6.116.3.9 virtual unsigned char decaf::io::ByteArrayInputStream::read () throw (IOException) [virtual]

Reads a single byte from the buffer.

Returns:

The next byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implements **decaf::io::InputStream** (p. 1408).

6.116.3.10 virtual void decaf::io::ByteArrayInputStream::reset () throw (IOException) [virtual]

Resets the read index to the beginning of the byte array, unless mark has been called and the markLimit has not been exceeded, in which case the stream is reset to the marked position.

Implements **decaf::io::InputStream** (p. 1408).

6.116.3.11 virtual void decaf::io::ByteArrayInputStream::setBuffer (const std::vector< unsigned char > & buffer) [virtual]

Sets the **internal** (p. 95) buffer. The input stream will wrap around this buffer and will perform all read operations on it. The position will be reinitialized to the beginning of the specified buffer. This class will not own the given buffer - it is the caller's responsibility to free the memory of the given buffer as appropriate.

Parameters:

buffer The buffer to be used.

6.116.3.12 virtual void decaf::io::ByteArrayInputStream::setByteArray (const unsigned char * buffer, std::size_t bufferSize) [virtual]

Sets the data that this reader uses, replaces any existing data and resets to beginning of the buffer.

Parameters:

buffer initial byte array to use to read from

bufferSize the size of the buffer

6.116.3.13 virtual std::size_t decaf::io::ByteArrayInputStream::skip
(std::size_t *num*) throw (io::IOException,
lang::exceptions::UnsupportedOperationException) [virtual]

Skips over and discards *n* bytes of data from this input stream. The skip method may, for a variety of reasons, end up skipping over some smaller number of bytes, possibly 0. This may result from any of a number of conditions; reaching end of file before *n* bytes have been skipped is only one possibility. The actual number of bytes skipped is returned. If *n* is negative, no bytes are skipped.

The skip method of **InputStream** (p. 1406) creates a byte array and then repeatedly reads into it until *n* bytes have been read or the end of the stream has been reached. Subclasses are encouraged to provide a more efficient implementation of this method.

Parameters:

num - the number of bytes to skip

Returns:

total bytes skipped

Exceptions:

IOException (p. 1477) if an error occurs

Implements **decaf::io::InputStream** (p. 1409).

6.116.3.14 virtual void decaf::io::ByteArrayInputStream::unlock () throw (
lang::Exception) [inline, protected, virtual]

Unlocks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

6.116.3.15 virtual void decaf::io::ByteArrayInputStream::wait (unsigned long
millisecs) throw (lang::Exception) [inline, protected, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

millisecs the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.116.3.16 **virtual void decaf::io::ByteArrayInputStream::wait () throw (**
 lang::Exception) [inline, protected, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

The documentation for this class was generated from the following file:

- src/main/decaf/io/ByteArrayInputStream.h

6.117 decaf::io::ByteArrayOutputStream Class Reference

#include <src/main/decaf/io/ByteArrayOutputStream.h> Inheritance diagram for decaf::io::ByteArrayOutputStream:

Public Member Functions

- **ByteArrayOutputStream** ()
*Default Constructor - uses a default **internal** (p. 95) buffer.*
- **ByteArrayOutputStream** (std::vector< unsigned char > &buffer)
Uses the given buffer as the target.
- virtual ~**ByteArrayOutputStream** ()
- virtual void **setBuffer** (std::vector< unsigned char > &buffer)
*Sets the **internal** (p. 95) buffer.*
- virtual const unsigned char * **toByteArray** () const
Get a snapshot of the data.
- virtual std::size_t **size** () const
Get the Size of the Internal Buffer.
- virtual void **write** (unsigned char c) throw (IOException)
Writes a single byte to the output stream.
- virtual void **write** (const std::vector< unsigned char > &buffer) throw (IOException)
Writes an array of bytes to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset, std::size_t len) throw (IOException, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **flush** () throw (IOException)
Invokes flush on the target output stream, has no affect.
- virtual void **reset** () throw (IOException)
Clear current Stream contents.
- void **close** () throw (lang::Exception)
Invokes close on the target output stream.
- std::string **toString** () const
Converts the bytes in the buffer into a standard C++ string.
- void **writeTo** (**OutputStream** *out) const throw (IOException, lang::exceptions::NullPointerException)

Writes the complete contents of this byte array output stream to the specified output stream argument, as if by calling the output stream's write method using `out.write(buf, 0, count)`.

- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.117.1 Constructor & Destructor Documentation

6.117.1.1 decaf::io::ByteArrayOutputStream::ByteArrayOutputStream ()

Default Constructor - uses a default **internal** (p. 95) buffer.

6.117.1.2 decaf::io::ByteArrayOutputStream::ByteArrayOutputStream (std::vector< unsigned char > & *buffer*)

Uses the given buffer as the target. Calls setBuffer.

Parameters:

buffer the target buffer.

6.117.1.3 virtual decaf::io::ByteArrayOutputStream::~~ByteArrayOutputStream () [inline, virtual]

6.117.2 Member Function Documentation

6.117.2.1 void decaf::io::ByteArrayOutputStream::close () throw (lang::Exception) [inline, virtual]

Invokes close on the target output stream.

Exceptions:

CMSEException

Implements **decaf::io::Closeable** (p. 840).

6.117.2.2 virtual void decaf::io::ByteArrayOutputStream::flush () throw (IOException) [inline, virtual]

Invokes flush on the target output stream, has no affect.

Exceptions:

IOException (p. 1477)

Implements **decaf::io::OutputStream** (p. 1992).

6.117.2.3 virtual void decaf::io::ByteArrayOutputStream::lock () throw (lang::Exception) [inline, virtual]

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.117.2.4 virtual void decaf::io::ByteArrayOutputStream::notify () throw (lang::Exception) [inline, virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.117.2.5 virtual void decaf::io::ByteArrayOutputStream::notifyAll () throw (lang::Exception) [inline, virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.117.2.6 virtual void decaf::io::ByteArrayOutputStream::reset () throw (IOException) [virtual]

Clear current Stream contents.

Exceptions:

IOException (p. 1477)

6.117.2.7 `virtual void decaf::io::ByteArrayOutputStream::setBuffer (std::vector< unsigned char > & buffer) [virtual]`

Sets the **internal** (p.95) buffer. This input stream will wrap around the given buffer and all writes will be performed directly on the buffer. This object does not retain control of the buffer's lifetime however - this is the job of the caller.

Parameters:

buffer The target buffer.

6.117.2.8 `virtual std::size_t decaf::io::ByteArrayOutputStream::size () const [inline, virtual]`

Get the Size of the Internal Buffer.

Returns:

size of the **internal** (p.95) buffer

6.117.2.9 `virtual const unsigned char* decaf::io::ByteArrayOutputStream::toByteArray () const [inline, virtual]`

Get a snapshot of the data.

Returns:

pointer to the data

6.117.2.10 `std::string decaf::io::ByteArrayOutputStream::toString () const`

Converts the bytes in the buffer into a standard C++ string.

Returns:

a string containing the bytes in the buffer

6.117.2.11 `virtual void decaf::io::ByteArrayOutputStream::unlock () throw (lang::Exception) [inline, virtual]`

Unlocks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p.2512).

6.117.2.12 virtual void decaf::io::ByteArrayOutputStream::wait (unsigned long *milliseconds*) throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements decaf::util::concurrent::Synchronizable (p. 2513).

6.117.2.13 virtual void decaf::io::ByteArrayOutputStream::wait () throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements decaf::util::concurrent::Synchronizable (p. 2514).

6.117.2.14 virtual void decaf::io::ByteArrayOutputStream::write (const unsigned char * *buffer*, std::size_t *offset*, std::size_t *len*) throw (IOException, lang::exceptions::NullPointerException) [virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The array of bytes to write.

offset the position to start writing in buffer.

len The number of bytes from the buffer to be written.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException thrown if buffer is Null.

Implements decaf::io::OutputStream (p. 1993).

6.117.2.15 virtual void decaf::io::ByteArrayOutputStream::write (const std::vector< unsigned char > & *buffer*) throw (IOException) [virtual]

Writes an array of bytes to the output stream.

buffer The bytes to write.

IOException (p. 1477) thrown if an error occurs.

```
6.117.2.16 virtual void decaf::io::ByteArrayOutputStream::write (unsigned char c)
throw ( IOException ) [virtual]
```

c the byte.

IOException (p. 1477) thrown if an error occurs.

```
6.117.2.17 void decaf::io::ByteArrayOutputStream::writeTo (OutputStream * out)
const throw ( IOException, lang::exceptions::NullPointerException )
```

The documentation for this class was generated from the following file:

- `src/main/decaf/io/ByteArrayOutputStream.h`

6.118 decaf::internal::nio::ByteArrayPerspective Class Reference

This class extends ByteArray to create a reference counted byte array that can be held and used by several different ByteBuffers and allow them to know on destruction whose job it is to delete the perspective.

#include <src/main/decaf/internal/nio/ByteArrayPerspective.h>Inheritance diagram for decaf::internal::nio::ByteArrayPerspective:

Public Member Functions

- **ByteArrayPerspective** (std::size_t capacity)
Creates a byte array object that is allocated internally and is then owned and deleted when this object is deleted.
- **ByteArrayPerspective** (unsigned char *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a byte array object that wraps the given array.
- **ByteArrayPerspective** (char *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a array object that wraps the given array.
- **ByteArrayPerspective** (double *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a array object that wraps the given array.
- **ByteArrayPerspective** (float *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a array object that wraps the given array.
- **ByteArrayPerspective** (long long *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a array object that wraps the given array.
- **ByteArrayPerspective** (int *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a array object that wraps the given array.
- **ByteArrayPerspective** (short *array, std::size_t capacity, bool own=false) throw (lang::exceptions::NullPointerException)
Creates a array object that wraps the given array.
- virtual ~**ByteArrayPerspective** ()
- **ByteArrayPerspective * takeRef** ()
Takes a reference to this Perspective and returns a pointer to this so that a caller can take a ref and get a ref in one call.

- void **returnRef** ()

Returns a reference to this Perspective, when the count is zero it should be deleted.

- int **getReferences** () const

6.118.1 Detailed Description

This class extends ByteArray to create a reference counted byte array that can be held and used by several different ByteBuffers and allow them to know on destruction whose job it is to delete the perspective. Creating an instance of this class implicitly takes a reference to it, so a creator must return its ref before the count will be zero.

6.118.2 Constructor & Destructor Documentation

6.118.2.1 decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective (std::size_t capacity)

Creates a byte array object that is allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

6.118.2.2 decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective (unsigned char * array, std::size_t capacity, bool own = false) throw (lang::exceptions::NullPointerException)

Creates a byte array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.118.2.3 decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective (char * array, std::size_t capacity, bool own = false) throw (lang::exceptions::NullPointerException)

Creates a array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.118.2.4 decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective (double * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.118.2.5 decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective (float * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.118.2.6 decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective (long long * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.118.2.7 `decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective` (int * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.118.2.8 `decaf::internal::nio::ByteArrayPerspective::ByteArrayPerspective` (short * *array*, std::size_t *capacity*, bool *own* = false) throw (lang::exceptions::NullPointerException)

Creates a array object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

capacity - size of the array, this is the limit we read and write to.

own - is this class now the owner of the pointer.

Exceptions:

NullPointerException if buffer is NULL

6.118.2.9 `virtual` `decaf::internal::nio::ByteArrayPerspective::~~ByteArrayPerspective ()` [inline, virtual]

6.118.3 Member Function Documentation

6.118.3.1 `int decaf::internal::nio::ByteArrayPerspective::getReferences () const` [inline]

Returns:

the current number of reference on this perspective

6.118.3.2 void decaf::internal::nio::ByteArrayPerspective::returnRef () [inline]

Returns a reference to this Perspective, when the count is zero it should be deleted.

6.118.3.3 ByteArrayPerspective* decaf::internal::nio::ByteArrayPerspective::takeRef () [inline]

Takes a reference to this Perspective and returns a pointer to this so that a caller can take a ref and get a ref in one call.

Returns:

this

The documentation for this class was generated from the following file:

- src/main/decaf/internal/nio/**ByteArrayPerspective.h**

6.119 decaf::nio::ByteBuffer Class Reference

This class defines six categories of operations upon byte buffers:.

#include <src/main/decaf/nio/ByteBuffer.h> Inheritance diagram for decaf::nio::ByteBuffer:

Public Member Functions

- virtual **~ByteBuffer** ()
- virtual std::string **toString** () const
- **ByteBuffer** & **get** (std::vector< unsigned char > buffer) throw (BufferUnderflowException)
Relative bulk get method.
- **ByteBuffer** & **get** (unsigned char *buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)
Relative bulk get method.
- **ByteBuffer** & **put** (**ByteBuffer** &src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)
This method transfers the bytes remaining in the given source buffer into this buffer.
- **ByteBuffer** & **put** (const unsigned char *buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)
This method transfers bytes into this buffer from the given source array.
- **ByteBuffer** & **put** (std::vector< unsigned char > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)
This method transfers the entire content of the given source byte array into this buffer.
- virtual bool **isReadOnly** () const =0
Tells whether or not this buffer is read-only.
- virtual unsigned char * **array** ()=0 throw (ReadOnlyBufferException, lang::exceptions::UnsupportedOperationException)
Returns the byte array that backs this buffer.
- virtual std::size_t **arrayOffset** () const =0 throw (ReadOnlyBufferException, lang::exceptions::UnsupportedOperationException)
Returns the offset within this buffer's backing array of the first element of the buffer.
- virtual bool **hasArray** () const =0
Tells whether or not this buffer is backed by an accessible byte array.
- virtual **CharBuffer** * **asCharBuffer** () const =0
Creates a view of this byte buffer as a char buffer.

- virtual **DoubleBuffer** * **asDoubleBuffer** () const =0
Creates a view of this byte buffer as a double buffer.
- virtual **FloatBuffer** * **asFloatBuffer** () const =0
Creates a view of this byte buffer as a float buffer.
- virtual **IntBuffer** * **asIntBuffer** () const =0
Creates a view of this byte buffer as a int buffer.
- virtual **LongBuffer** * **asLongBuffer** () const =0
Creates a view of this byte buffer as a long buffer.
- virtual **ShortBuffer** * **asShortBuffer** () const =0
Creates a view of this byte buffer as a short buffer.
- virtual **ByteBuffer** * **asReadOnlyBuffer** () const =0
Creates a new, read-only byte buffer that shares this buffer's content.
- virtual **ByteBuffer** & **compact** ()=0 throw (**ReadOnlyBufferException**)
Compacts this buffer.
- virtual **ByteBuffer** * **duplicate** ()=0
Creates a new byte buffer that shares this buffer's content.
- virtual unsigned char **get** () const =0 throw (**BufferUnderflowException**)
Relative get method.
- virtual unsigned char **get** (std::size_t index) const =0 throw (**lang::exceptions::IndexOutOfBoundsException**)
Absolute get method.
- virtual char **getChar** ()=0 throw (**BufferUnderflowException**)
Reads the next byte at this buffer's current position, and then increments the position by one.
- virtual char **getChar** (std::size_t index) const =0 throw (**lang::exceptions::IndexOutOfBoundsException**)
Reads one byte at the given index and returns it.
- virtual double **getDouble** ()=0 throw (**BufferUnderflowException**)
Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.
- virtual double **getDouble** (std::size_t index) const =0 throw (**lang::exceptions::IndexOutOfBoundsException**)
Reads eight bytes at the given index and returns it.
- virtual float **getFloat** ()=0 throw (**BufferUnderflowException**)
Reads the next four bytes at this buffer's current position, and then increments the position by that amount.

- virtual float **getFloat** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Reads four bytes at the given index and returns it.
- virtual long long **getLong** ()=0 throw (BufferUnderflowException)
Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.
- virtual long long **getLong** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Reads eight bytes at the given index and returns it.
- virtual int **getInt** ()=0 throw (BufferUnderflowException)
Reads the next four bytes at this buffer's current position, and then increments the position by that amount.
- virtual int **getInt** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Reads four bytes at the given index and returns it.
- virtual short **getShort** ()=0 throw (BufferUnderflowException)
Reads the next two bytes at this buffer's current position, and then increments the position by that amount.
- virtual short **getShort** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Reads two bytes at the given index and returns it.
- virtual **ByteBuffer** & **put** (unsigned char value)=0 throw (BufferOverflowException, ReadOnlyBufferException)
Writes the given byte into this buffer at the current position, and then increments the position.
- virtual **ByteBuffer** & **put** (std::size_t index, unsigned char value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)
Writes the given byte into this buffer at the given index.
- virtual **ByteBuffer** & **putChar** (char value)=0 throw (BufferOverflowException, ReadOnlyBufferException)
Writes one byte containing the given value, into this buffer at the current position, and then increments the position by one.
- virtual **ByteBuffer** & **putChar** (std::size_t index, char value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)
Writes one byte containing the given value, into this buffer at the given index.
- virtual **ByteBuffer** & **putDouble** (double value)=0 throw (BufferOverflowException, ReadOnlyBufferException)
Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.
- virtual **ByteBuffer** & **putDouble** (std::size_t index, double value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)

Writes eight bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putFloat** (float value)=0 throw (**BufferOverflowException**, **ReadOnlyBufferException**)

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putFloat** (std::size_t index, float value)=0 throw (**lang::exceptions::IndexOutOfBoundsException**, **ReadOnlyBufferException**)

Writes four bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putLong** (long long value)=0 throw (**BufferOverflowException**, **ReadOnlyBufferException**)

Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putLong** (std::size_t index, long long value)=0 throw (**lang::exceptions::IndexOutOfBoundsException**, **ReadOnlyBufferException**)

Writes eight bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putInt** (int value)=0 throw (**BufferOverflowException**, **ReadOnlyBufferException**)

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putInt** (std::size_t index, int value)=0 throw (**lang::exceptions::IndexOutOfBoundsException**, **ReadOnlyBufferException**)

Writes four bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** & **putShort** (short value)=0 throw (**BufferOverflowException**, **ReadOnlyBufferException**)

Writes two bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

- virtual **ByteBuffer** & **putShort** (std::size_t index, short value)=0 throw (**lang::exceptions::IndexOutOfBoundsException**, **ReadOnlyBufferException**)

Writes two bytes containing the given value, into this buffer at the given index.

- virtual **ByteBuffer** * **slice** () const =0

Creates a new byte buffer whose content is a shared subsequence of this buffer's content.

- virtual int **compareTo** (const **ByteBuffer** &value) const

Compares this object with the specified object for order.

- virtual bool **equals** (const **ByteBuffer** &value) const

- virtual bool **operator==** (const **ByteBuffer** &value) const

Compares equality between this object and the one passed.

- virtual bool **operator<** (const **ByteBuffer** &value) const

Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static **ByteBuffer** * **allocate** (std::size_t capacity)
Allocates a new byte buffer whose position will be zero its limit will be its capacity and its mark is not set.
- static **ByteBuffer** * **wrap** (unsigned char *array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
*Wraps the passed buffer with a new **ByteBuffer** (p. 734).*
- static **ByteBuffer** * **wrap** (std::vector< unsigned char > &buffer)
*Wraps the passed STL Byte Vector in a **ByteBuffer** (p. 734).*

Protected Member Functions

- **ByteBuffer** (std::size_t capacity)
*Creates a **ByteBuffer** (p. 734) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*

6.119.1 Detailed Description

This class defines six categories of operations upon byte buffers:. 1. Absolute and relative get and put methods that read and write single bytes; 2. Relative bulk get methods that transfer contiguous sequences of bytes from this buffer into an array; 3. Relative bulk put methods that transfer contiguous sequences of bytes from a byte array or some other byte buffer into this buffer; 4. Absolute and relative get and put methods that read and write values of other primitive types, translating them to and from sequences of bytes in a particular byte order; 5. Methods for creating view buffers, which allow a byte buffer to be viewed as a buffer containing values of some other primitive type; and 6. Methods for compacting, duplicating, and slicing a byte buffer.

Byte buffers can be created either by allocation, which allocates space for the buffer's content, or by wrapping an existing byte array into a buffer.

Access to binary data:

This class defines methods for reading and writing values of all other primitive types, except boolean. Primitive values are translated to (or from) sequences of bytes according to the buffer's current byte order.

For access to heterogeneous binary data, that is, sequences of values of different types, this class defines a family of absolute and relative get and put methods for each type. For 32-bit floating-point values, for example, this class defines:

float **getFloat()** (p. 747) float getFloat(int index) void **putFloat(float f)** (p. 754) void putFloat(int index, float f)

Corresponding methods are defined for the types char, short, int, long, and double. The index parameters of the absolute get and put methods are in terms of bytes rather than of the type being read or written.

For access to homogeneous binary data, that is, sequences of values of the same type, this class defines methods that can create views of a given byte buffer. A view buffer is simply another buffer whose content is backed by the byte buffer. Changes to the byte buffer's content will be visible in

the view buffer, and vice versa; the two buffers' position, limit, and mark values are independent. The `asFloatBuffer` method, for example, creates an instance of the **FloatBuffer** (p. 1346) class that is backed by the byte buffer upon which the method is invoked. Corresponding view-creation methods are defined for the types `char`, `short`, `int`, `long`, and `double`.

View buffers have two important advantages over the families of type-specific get and put methods described above:

A view buffer is indexed not in terms of bytes but rather in terms of the type-specific size of its values;

A view buffer provides relative bulk get and put methods that can transfer contiguous sequences of values between a buffer and an array or some other buffer of the same type; and

6.119.2 Constructor & Destructor Documentation

6.119.2.1 `decaf::nio::ByteBuffer::ByteBuffer (std::size_t capacity)` [protected]

Creates a **ByteBuffer** (p. 734) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

6.119.2.2 `virtual decaf::nio::ByteBuffer::~~ByteBuffer ()` [inline, virtual]

6.119.3 Member Function Documentation

6.119.3.1 `static ByteBuffer* decaf::nio::ByteBuffer::allocate (std::size_t capacity)` [static]

Allocates a new byte buffer whose position will be zero its limit will be its capacity and its mark is not set.

Parameters:

capacity - the **internal** (p. 95) buffer's capacity.

Returns:

a newly allocated **ByteBuffer** (p. 734) which the caller owns.

6.119.3.2 `virtual unsigned char* decaf::nio::ByteBuffer::array () throw (ReadOnly-BufferException, lang::exceptions::UnsupportedOperationException)` [pure virtual]

Returns the byte array that backs this buffer. Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The array that backs this buffer

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is backed by an array but is read-only

UnsupportedOperationException - If this buffer is not backed by an accessible array

Implemented in **decaf::internal::nio::ByteBuffer** (p. 700).

6.119.3.3 `virtual std::size_t decaf::nio::ByteBuffer::arrayOffset
() const throw (ReadOnlyBufferException,
lang::exceptions::UnsupportedOperationException) [pure virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer. If this buffer is backed by an array then buffer position *p* corresponds to array index *p* + **arrayOffset()** (p. 740).

Invoke the **hasArray** method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset within this buffer's array of the first element of the buffer

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is backed by an array but is read-only

UnsupportedOperationException - If this buffer is not backed by an accessible array

Implemented in **decaf::internal::nio::ByteBuffer** (p. 700).

6.119.3.4 `virtual CharBuffer* decaf::nio::ByteBuffer::asCharBuffer () const [pure
virtual]`

Creates a view of this byte buffer as a char buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new **Char Buffer** (p. 627), which the caller then owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 700).

6.119.3.5 `virtual DoubleBuffer* decaf::nio::ByteBuffer::asDoubleBuffer () const
[pure virtual]`

Creates a view of this byte buffer as a double buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by eight, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new double **Buffer** (p. 627), which the caller then owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 701).

6.119.3.6 virtual FloatBuffer* decaf::nio::ByteBuffer::asFloatBuffer () const [pure virtual]

Creates a view of this byte buffer as a float buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by four, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new float **Buffer** (p. 627), which the caller then owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 701).

6.119.3.7 virtual IntBuffer* decaf::nio::ByteBuffer::asIntBuffer () const [pure virtual]

Creates a view of this byte buffer as a int buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by four, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new int **Buffer** (p. 627), which the caller then owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 701).

6.119.3.8 virtual LongBuffer* decaf::nio::ByteBuffer::asLongBuffer () const [pure virtual]

Creates a view of this byte buffer as a long buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by eight, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new long **Buffer** (p. 627), which the caller then owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 702).

6.119.3.9 **virtual ByteBuffer* decaf::nio::ByteBuffer::asReadOnlyBuffer () const** [pure virtual]

Creates a new, read-only byte buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the duplicate method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only byte buffer which the caller then owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 702).

6.119.3.10 **virtual ShortBuffer* decaf::nio::ByteBuffer::asShortBuffer () const** [pure virtual]

Creates a view of this byte buffer as a short buffer. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer divided by two, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the new short **Buffer** (p. 627), which the caller then owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 702).

6.119.3.11 **virtual ByteBuffer& decaf::nio::ByteBuffer::compact () throw (** **ReadOnlyBufferException)** [pure virtual]

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \text{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index $\text{limit}()$ (p. 631) - 1 is copied to index $n = \text{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n + 1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **ByteBuffer** (p. 734)

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 703).

6.119.3.12 virtual int decaf::nio::ByteBuffer::compareTo (const ByteBuffer & *value*) const [virtual]

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

6.119.3.13 virtual ByteBuffer* decaf::nio::ByteBuffer::duplicate () [pure virtual]

Creates a new byte buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new Byte **Buffer** (p. 627) which the caller owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 703).

6.119.3.14 virtual bool decaf::nio::ByteBuffer::equals (const ByteBuffer & *value*) const [virtual]

Returns:

true if this value is considered equal to the passed value.

6.119.3.15 virtual unsigned char decaf::nio::ByteBuffer::get (std::size_t *index*) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]

Absolute get method. Reads the byte at the given index.

Parameters:

index - the index in the **Buffer** (p. 627) where the byte is to be read

Returns:

the byte that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implemented in **decaf::internal::nio::ByteBuffer** (p. 703).

6.119.3.16 **virtual unsigned char decaf::nio::ByteBuffer::get () const throw (BufferUnderflowException)** [pure virtual]

Relative get method. Reads the byte at this buffer's current position, and then increments the position.

Returns:

The byte at the buffer's current position

Exceptions:

BufferUnderflowException (p. 661) - If the buffer's current position is not smaller than its limit

Implemented in **decaf::internal::nio::ByteBuffer** (p. 704).

6.119.3.17 **ByteBuffer& decaf::nio::ByteBuffer::get (unsigned char * *buffer*, std::size_t *offset*, std::size_t *length*) throw (BufferUnderflowException, lang::exceptions::NullPointerException)**

Relative bulk get method. This method transfers bytes from this buffer into the given destination array. If there are fewer bytes remaining in the buffer than are required to satisfy the request, that is, if `length > remaining()` (p. 632), then no bytes are transferred and a **BufferUnderflowException** (p. 661) is thrown.

Otherwise, this method copies `length` bytes from this buffer into the given array, starting at the current position of this buffer and at the given offset in the array. The position of this buffer is then incremented by `length`.

Parameters:

buffer - pointer to an allocated buffer to fill

offset - position in the buffer to start filling

length - amount of data to put in the passed buffer

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than `length` bytes remaining in this buffer

NullPointerException if the passed buffer is null.

6.119.3.18 `ByteBuffer& decaf::nio::ByteBuffer::get (std::vector< unsigned char > buffer) throw (BufferUnderflowException)`

Relative bulk get method. This method transfers bytes from this buffer into the given destination vector. An invocation of this method of the form `src.get(a)` behaves in exactly the same way as the invocation. The vector must be sized to the amount of data that is to be read, that is to say, the caller should call `buffer.resize(N)` before calling this get method.

Returns:

a reference to this Byte **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than length bytes remaining in this buffer

6.119.3.19 `virtual char decaf::nio::ByteBuffer::getChar (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Reads one byte at the given index and returns it.

Parameters:

index - the index in the **Buffer** (p. 627) where the byte is to be read

Returns:

the char at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implemented in `decaf::internal::nio::ByteBuffer` (p. 704).

6.119.3.20 `virtual char decaf::nio::ByteBuffer::getChar () throw (BufferUnderflowException) [pure virtual]`

Reads the next byte at this buffer's current position, and then increments the position by one.

Returns:

the next char in the buffer..

Exceptions:

BufferUnderflowException (p. 661) - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implemented in `decaf::internal::nio::ByteBuffer` (p. 704).

6.119.3.21 `virtual double decaf::nio::ByteBuffer::getDouble (std::size_t index)
const throw (lang::exceptions::IndexOutOfBoundsException) [pure
virtual]`

Reads eight bytes at the given index and returns it.

Parameters:

index - the index in the **Buffer** (p. 627) where the bytes are to be read

Returns:

the double at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implemented in **decaf::internal::nio::ByteBuffer** (p. 705).

6.119.3.22 `virtual double decaf::nio::ByteBuffer::getDouble () throw (
BufferUnderflowException) [pure virtual]`

Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next double in the buffer..

Exceptions:

BufferUnderflowException (p. 661) - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 705).

6.119.3.23 `virtual float decaf::nio::ByteBuffer::getFloat (std::size_t index) const
throw (lang::exceptions::IndexOutOfBoundsException) [pure
virtual]`

Reads four bytes at the given index and returns it.

Parameters:

index - the index in the **Buffer** (p. 627) where the bytes are to be read

Returns:

the float at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implemented in **decaf::internal::nio::ByteBuffer** (p. 705).

6.119.3.24 virtual float decaf::nio::ByteBuffer::getFloat () throw (
BufferUnderflowException) [pure virtual]

Reads the next four bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next float in the buffer..

Exceptions:

BufferUnderflowException (p. 661) - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 706).

6.119.3.25 virtual int decaf::nio::ByteBuffer::getInt (std::size_t index) const throw (
lang::exceptions::IndexOutOfBoundsException) [pure virtual]

Reads four bytes at the given index and returns it.

Parameters:

index - the index in the **Buffer** (p. 627) where the bytes are to be read

Returns:

the int at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implemented in **decaf::internal::nio::ByteBuffer** (p. 706).

6.119.3.26 virtual int decaf::nio::ByteBuffer::getInt () throw (
BufferUnderflowException) [pure virtual]

Reads the next four bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next int in the buffer..

Exceptions:

BufferUnderflowException (p. 661) - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 707).

6.119.3.27 `virtual long long decaf::nio::ByteBuffer::getLong (std::size_t index)
const throw (lang::exceptions::IndexOutOfBoundsException) [pure
virtual]`

Reads eight bytes at the given index and returns it.

Parameters:

index - the index in the **Buffer** (p. 627) where the bytes are to be read

Returns:

the long long at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implemented in **decaf::internal::nio::ByteBuffer** (p. 707).

6.119.3.28 `virtual long long decaf::nio::ByteBuffer::getLong () throw (
BufferUnderflowException) [pure virtual]`

Reads the next eight bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next long long in the buffer..

Exceptions:

BufferUnderflowException (p. 661) - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 707).

6.119.3.29 `virtual short decaf::nio::ByteBuffer::getShort (std::size_t index)
const throw (lang::exceptions::IndexOutOfBoundsException) [pure
virtual]`

Reads two bytes at the given index and returns it.

Parameters:

index - the index in the **Buffer** (p. 627) where the bytes are to be read

Returns:

the short at the given index in the buffer

Exceptions:

IndexOutOfBoundsException - If there are not enough bytes remaining to fill the requested Data Type

Implemented in **decaf::internal::nio::ByteBuffer** (p. 708).

6.119.3.30 virtual short decaf::nio::ByteBuffer::getShort () throw (BufferUnderflowException) [pure virtual]

Reads the next two bytes at this buffer's current position, and then increments the position by that amount.

Returns:

the next short in the buffer..

Exceptions:

BufferUnderflowException (p. 661) - If there are no more bytes remaining in this buffer, meaning we have reached the set limit.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 708).

6.119.3.31 virtual bool decaf::nio::ByteBuffer::hasArray () const [pure virtual]

Tells whether or not this buffer is backed by an accessible byte array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 708).

6.119.3.32 virtual bool decaf::nio::ByteBuffer::isReadOnly () const [pure virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::Buffer** (p. 630).

Implemented in **decaf::internal::nio::ByteBuffer** (p. 708).

6.119.3.33 virtual bool decaf::nio::ByteBuffer::operator< (const ByteBuffer &value) const [virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.119.3.34 `virtual bool decaf::nio::ByteBuffer::operator==(const ByteBuffer & value) const` [virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.119.3.35 `virtual ByteBuffer& decaf::nio::ByteBuffer::put (std::size_t index, unsigned char value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes the given byte into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data
value - the byte to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::ByteArrayBuffer` (p. 709).

6.119.3.36 `virtual ByteBuffer& decaf::nio::ByteBuffer::put (unsigned char value) throw (BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes the given byte into this buffer at the current position, and then increments the position.

Parameters:

value - the byte value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::ByteArrayBuffer` (p. 709).

6.119.3.37 ByteBuffer& decaf::nio::ByteBuffer::put (std::vector< unsigned char > & *buffer*) throw (**BufferOverflowException**, **ReadOnlyBufferException**)

This method transfers the entire content of the given source byte array into this buffer. This is the same as calling put(&buffer[0], 0, buffer.size())

Parameters:

buffer - The buffer whose contents are copied to this **ByteBuffer** (p. 734)

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.119.3.38 ByteBuffer& decaf::nio::ByteBuffer::put (const unsigned char * *buffer*, std::size_t *offset*, std::size_t *length*) throw (**BufferOverflowException**, **ReadOnlyBufferException**, lang::exceptions::NullPointerException)

This method transfers bytes into this buffer from the given source array. If there are more bytes to be copied from the array than remain in this buffer, that is, if length > **remaining()** (p. 632), then no bytes are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies length bytes from the given array into this buffer, starting at the given offset in the array and at the current position of this buffer. The position of this buffer is then incremented by length.

Parameters:

buffer - The array from which bytes are to be read

offset - The offset within the array of the first byte to be read;

length - The number of bytes to be read from the given array

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

NullPointerException if the passed buffer is null.

6.119.3.39 ByteBuffer& decaf::nio::ByteBuffer::put (ByteBuffer & *src*) throw (**BufferOverflowException**, **ReadOnlyBufferException**, lang::exceptions::IllegalArgumentException)

This method transfers the bytes remaining in the given source buffer into this buffer. If there are more bytes remaining in the source buffer than in this buffer, that is, if src.remaining() >

remaining() (p. 632), then no bytes are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies $n = \text{src.remaining}()$ bytes from the given buffer into this buffer, starting at each buffer's current position. The positions of both buffers are then incremented by n .

Parameters:

src - the buffer to take bytes from an place in this one.

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer for the remaining bytes in the source buffer

IllegalArgumentException - If the source buffer is this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.119.3.40 `virtual ByteBuffer& decaf::nio::ByteBuffer::putChar (std::size_t index, char value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException) [pure virtual]`

Writes one byte containing the given value, into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteArrayBuffer** (p. 710).

6.119.3.41 `virtual ByteBuffer& decaf::nio::ByteBuffer::putChar (char value) throw (BufferOverflowException, ReadOnlyBufferException) [pure virtual]`

Writes one byte containing the given value, into this buffer at the current position, and then increments the position by one.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 710).

6.119.3.42 `virtual ByteBuffer& decaf::nio::ByteBuffer::putDouble (std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException) [pure virtual]`

Writes eight bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 710).

6.119.3.43 `virtual ByteBuffer& decaf::nio::ByteBuffer::putDouble (double value) throw (BufferOverflowException, ReadOnlyBufferException) [pure virtual]`

Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 711).

6.119.3.44 `virtual ByteBuffer& decaf::nio::ByteBuffer::putFloat (std::size_t index, float value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes four bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data
value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.
ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::ByteBuffer` (p. 711).

6.119.3.45 `virtual ByteBuffer& decaf::nio::ByteBuffer::putFloat (float value) throw (BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there are fewer than bytes remaining in this buffer than the size of the data to be written
ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::ByteBuffer` (p. 712).

6.119.3.46 `virtual ByteBuffer& decaf::nio::ByteBuffer::putInt (std::size_t index, int value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes four bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 712).

6.119.3.47 virtual ByteBuffer& decaf::nio::ByteBuffer::putInt (int *value*) throw (BufferOverflowException, ReadOnlyBufferException) [pure virtual]

Writes four bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 713).

6.119.3.48 virtual ByteBuffer& decaf::nio::ByteBuffer::putLong (std::size_t *index*, long long *value*) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException) [pure virtual]

Writes eight bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 713).

6.119.3.49 `virtual ByteBuffer& decaf::nio::ByteBuffer::putLong (long long value)
throw (BufferOverflowException, ReadOnlyBufferException) [pure
virtual]`

Writes eight bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::ByteArrayBuffer` (p. 713).

6.119.3.50 `virtual ByteBuffer& decaf::nio::ByteBuffer::putShort (std::size_t index,
short value) throw (lang::exceptions::IndexOutOfBoundsException,
ReadOnlyBufferException) [pure virtual]`

Writes two bytes containing the given value, into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the value to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::ByteArrayBuffer` (p. 714).

6.119.3.51 `virtual ByteBuffer& decaf::nio::ByteBuffer::putShort (short value)
throw (BufferOverflowException, ReadOnlyBufferException) [pure
virtual]`

Writes two bytes containing the given value, into this buffer at the current position, and then increments the position by eight.

Parameters:

value - The value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there are fewer than bytes remaining in this buffer than the size of the data to be written

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ByteBuffer** (p. 714).

6.119.3.52 virtual ByteBuffer* decaf::nio::ByteBuffer::slice () const [pure virtual]

Creates a new byte buffer whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **ByteBuffer** (p. 734) which the caller owns.

Implemented in **decaf::internal::nio::ByteBuffer** (p. 715).

6.119.3.53 virtual std::string decaf::nio::ByteBuffer::toString () const [virtual]**Returns:**

a std::string describing this object

6.119.3.54 static ByteBuffer* decaf::nio::ByteBuffer::wrap (std::vector< unsigned char > & buffer) [static]

Wraps the passed STL Byte Vector in a **ByteBuffer** (p. 734). The new buffer will be backed by the given byte array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be buffer.size(), its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling vector.resize(N).

Returns:

a new **ByteBuffer** (p. 734) that is backed by buffer, caller owns.

6.119.3.55 `static ByteBuffer* decaf::nio::ByteBuffer::wrap (unsigned char * array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new **ByteBuffer** (p. 734). The new buffer will be backed by the given byte array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

- array* - The array that will back the new buffer
- offset* - The offset of the subarray to be used
- length* - The length of the subarray to be used

Returns:

- a new **ByteBuffer** (p. 734) that is backed by `buffer`, caller owns.

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/ByteBuffer.h`

6.120 cms::BytesMessage Class Reference

A **BytesMessage** (p. 759) object is used to send a message containing a stream of unsigned bytes.

#include <src/main/cms/BytesMessage.h> Inheritance diagram for cms::BytesMessage:

Public Member Functions

- virtual **~BytesMessage** ()
- virtual void **setBodyBytes** (const unsigned char *buffer, std::size_t numBytes)=0 throw (CMSEException)
sets the bytes given to the message body.
- virtual const unsigned char * **getBodyBytes** () const =0 throw (CMSEException)
Gets the bytes that are contained in this message, user should copy this data into a user allocated buffer.
- virtual std::size_t **getBodyLength** () const =0 throw (CMSEException)
Returns the number of bytes contained in the body of this message.
- virtual void **reset** ()=0 throw (cms::CMSEException)
Puts the message body in read-only mode and repositions the stream of bytes to the beginning.
- virtual bool **readBoolean** () const =0 throw (cms::CMSEException)
Reads a Boolean from the Bytes message stream.
- virtual void **writeBoolean** (bool value)=0 throw (cms::CMSEException)
Writes a boolean to the bytes message stream as a 1-byte value.
- virtual unsigned char **readByte** () const =0 throw (cms::CMSEException)
Reads a Byte from the Bytes message stream.
- virtual void **writeByte** (unsigned char value)=0 throw (cms::CMSEException)
Writes a byte to the bytes message stream as a 1-byte value.
- virtual std::size_t **readBytes** (std::vector< unsigned char > &value) const =0 throw (cms::CMSEException)
Reads a byte array from the bytes message stream.
- virtual void **writeBytes** (const std::vector< unsigned char > &value)=0 throw (cms::CMSEException)
Writes a byte array to the bytes message stream using the vector size as the number of bytes to write.
- virtual std::size_t **readBytes** (unsigned char *&buffer, std::size_t length) const =0 throw (cms::CMSEException)
Reads a portion of the bytes message stream.

- virtual void **writeBytes** (const unsigned char *value, std::size_t offset, std::size_t length)=0 throw (cms::CMSEException)
Writes a portion of a byte array to the bytes message stream.
- virtual char **readChar** () const =0 throw (cms::CMSEException)
Reads a Char from the Bytes message stream.
- virtual void **writeChar** (char value)=0 throw (cms::CMSEException)
Writes a char to the bytes message stream as a 1-byte value.
- virtual float **readFloat** () const =0 throw (cms::CMSEException)
Reads a 32 bit float from the Bytes message stream.
- virtual void **writeFloat** (float value)=0 throw (cms::CMSEException)
Writes a float to the bytes message stream as a 4 byte value.
- virtual double **readDouble** () const =0 throw (cms::CMSEException)
Reads a 64 bit double from the Bytes message stream.
- virtual void **writeDouble** (double value)=0 throw (cms::CMSEException)
Writes a double to the bytes message stream as a 8 byte value.
- virtual short **readShort** () const =0 throw (cms::CMSEException)
Reads a 16 bit signed short from the Bytes message stream.
- virtual void **writeShort** (short value)=0 throw (cms::CMSEException)
Writes a signed short to the bytes message stream as a 2 byte value.
- virtual unsigned short **readUnsignedShort** () const =0 throw (cms::CMSEException)
Reads a 16 bit unsigned short from the Bytes message stream.
- virtual void **writeUnsignedShort** (unsigned short value)=0 throw (cms::CMSEException)
Writes a unsigned short to the bytes message stream as a 2 byte value.
- virtual int **readInt** () const =0 throw (cms::CMSEException)
Reads a 32 bit signed integer from the Bytes message stream.
- virtual void **writeInt** (int value)=0 throw (cms::CMSEException)
Writes a signed int to the bytes message stream as a 4 byte value.
- virtual long long **readLong** () const =0 throw (cms::CMSEException)
Reads a 64 bit long from the Bytes message stream.
- virtual void **writeLong** (long long value)=0 throw (cms::CMSEException)
Writes a long long to the bytes message stream as a 8 byte value.
- virtual std::string **readString** () const =0 throw (cms::CMSEException)
Reads an ASCII String from the Bytes message stream.

- virtual void **writeString** (const std::string &value)=0 throw (cms::CMSEException)

Writes an ASCII String to the Bytes message stream.

- virtual std::string **readUTF** () const =0 throw (cms::CMSEException)

*Reads an UTF String from the **BytesMessage** (p. 759) stream.*

- virtual void **writeUTF** (const std::string &value)=0 throw (cms::CMSEException)

*Writes an UTF String to the **BytesMessage** (p. 759) stream.*

- virtual **BytesMessage** * **clone** () const =0

Clones this message.

6.120.1 Detailed Description

A **BytesMessage** (p. 759) object is used to send a message containing a stream of unsigned bytes. It inherits from the **Message** (p. 1753) interface and adds a bytes message body. The receiver of the message supplies the interpretation of the bytes using the methods added by the **BytesMessage** (p. 759) interface.

The **BytesMessage** (p. 759) methods are based largely on those found in **decaf.io.DataInputStream** (p. 1116) and **decaf.io.DataOutputStream** (p. 1125).

Although the CMS API allows the use of message properties with byte messages, they are typically not used, since the inclusion of properties may affect the format.

The primitive types can be written explicitly using methods for each type. Because the C++ language is more limited when dealing with primitive types the JMS equivalent generic read and write methods that take Java objects cannot be provided in the CMS API.

When the message is first created, and when **clearBody** is called, the body of the message is in write-only mode. After the first call to **reset** has been made, the message body is in read-only mode. After a message has been sent, the client that sent it can retain and modify it without affecting the message that has been sent. The same message object can be sent multiple times. When a message has been received, the provider has called **reset** so that the message body is in read-only mode for the client.

If **clearBody** is called on a message in read-only mode, the message body is cleared and the message is in write-only mode.

If a client attempts to read a message in write-only mode, a **MessageNotReadableException** (p. 1876) is thrown.

If a client attempts to write a message in read-only mode, a **MessageNotWriteableException** (p. 1877) is thrown.

Since:

1.0

6.120.2 Constructor & Destructor Documentation

6.120.2.1 `virtual cms::BytesMessage::~~BytesMessage () [inline, virtual]`

6.120.3 Member Function Documentation

6.120.3.1 `virtual BytesMessage* cms::BytesMessage::clone () const [pure virtual]`

Clones this message.

Returns:

a deep copy of this message.

Exceptions:

CMSEException (p. 850) - if an internal error occurs while cloning the **Message** (p. 1753).

Implements **cms::Message** (p. 1758).

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 166).

6.120.3.2 `virtual const unsigned char* cms::BytesMessage::getBodyBytes () const throw (CMSEException) [pure virtual]`

Gets the bytes that are contained in this message, user should copy this data into a user allocated buffer. Call `getBodyLength` to determine the number of bytes to expect.

Returns:

const pointer to a byte buffer

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

MessageNotReadableException (p. 1876) - If the message is in Write Only Mode.

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 167).

6.120.3.3 `virtual std::size_t cms::BytesMessage::getBodyLength () const throw (CMSEException) [pure virtual]`

Returns the number of bytes contained in the body of this message.

Returns:

number of bytes.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

MessageNotReadableException (p. 1876) - If the message is in Write Only Mode.

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 167).

6.120.3.4 virtual bool cms::BytesMessage::readBoolean () const throw (cms::CMSEException) [pure virtual]

Reads a Boolean from the Bytes message stream.

Returns:

boolean value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 168).

6.120.3.5 virtual unsigned char cms::BytesMessage::readByte () const throw (cms::CMSEException) [pure virtual]

Reads a Byte from the Bytes message stream.

Returns:

unsigned char value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 168).

6.120.3.6 virtual std::size_t cms::BytesMessage::readBytes (unsigned char *&buffer, std::size_t length) const throw (cms::CMSEException) [pure virtual]

Reads a portion of the bytes message stream. If the length of array value is less than the number of bytes remaining to be read from the stream, the array should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of array value, the bytes should be read into the array. The return value of the total number of bytes read will be less than the length of the array, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

If length is negative, or length is greater than the length of the array value, then an `IndexOutOfBoundsException` is thrown. No bytes will be read from the stream for this exception case.

Parameters:

buffer the buffer into which the data is read

length the number of bytes to read; must be less than or equal to *value.length*

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 168).

6.120.3.7 `virtual std::size_t cms::BytesMessage::readBytes (std::vector< unsigned char > & value) const throw (cms::CMSEException) [pure virtual]`

Reads a byte array from the bytes message stream. If the length of vector *value* is less than the number of bytes remaining to be read from the stream, the vector should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of vector *value*, the bytes should be read into the vector. The return value of the total number of bytes read will be less than the length of the vector, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

Parameters:

value buffer to place data in

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 169).

6.120.3.8 `virtual char cms::BytesMessage::readChar () const throw (cms::CMSEException) [pure virtual]`

Reads a Char from the Bytes message stream.

Returns:

char value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 169).

6.120.3.9 virtual double cms::BytesMessage::readDouble () const throw (cms::CMSEException) [pure virtual]

Reads a 64 bit double from the Bytes message stream.

Returns:

double value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 170).

6.120.3.10 virtual float cms::BytesMessage::readFloat () const throw (cms::CMSEException) [pure virtual]

Reads a 32 bit float from the Bytes message stream.

Returns:

double value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQBytesMessage** (p. 170).

6.120.3.11 virtual int cms::BytesMessage::readInt () const throw (cms::CMSEException) [pure virtual]

Reads a 32 bit signed integer from the Bytes message stream.

Returns:

int value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 170).

6.120.3.12 `virtual long long cms::BytesMessage::readLong () const throw (cms::CMSEException)` [pure virtual]

Reads a 64 bit long from the Bytes message stream.

Returns:

long long value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 171).

6.120.3.13 `virtual short cms::BytesMessage::readShort () const throw (cms::CMSEException)` [pure virtual]

Reads a 16 bit signed short from the Bytes message stream.

Returns:

short value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 171).

6.120.3.14 `virtual std::string cms::BytesMessage::readString () const throw (cms::CMSEException)` [pure virtual]

Reads an ASCII String from the Bytes message stream.

Returns:

String from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 171).

6.120.3.15 `virtual unsigned short cms::BytesMessage::readUnsignedShort () const throw (cms::CMSEException) [pure virtual]`

Reads a 16 bit unsigned short from the Bytes message stream.

Returns:

unsigned short value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 171).

6.120.3.16 `virtual std::string cms::BytesMessage::readUTF () const throw (cms::CMSEException) [pure virtual]`

Reads an UTF String from the BytesMessage (p. 759) stream.

Returns:

String from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 172).

6.120.3.17 `virtual void cms::BytesMessage::reset () throw (cms::CMSEException) [pure virtual]`

Puts the message body in read-only mode and repositions the stream of bytes to the beginning.

Exceptions:

CMSEException (p. 850) - If the provider fails to perform the reset operation.

MessageFormatException (p. 1842) - If the *Message* (p. 1753) has an invalid format.

Implemented in *activemq::commands::ActiveMQBytesMessage* (p. 172).

6.120.3.18 `virtual void cms::BytesMessage::setBodyBytes (const unsigned char *
buffer, std::size_t numBytes) throw (CMSEException) [pure virtual]`

sets the bytes given to the message body.

Parameters:

buffer Byte Buffer to copy

numBytes Number of bytes in Buffer to copy

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

MessageNotWriteableException (p. 1877) - if in Read Only Mode.

Implemented in *activemq::commands::ActiveMQBytesMessage* (p. 172).

6.120.3.19 `virtual void cms::BytesMessage::writeBoolean (bool value) throw (
cms::CMSEException) [pure virtual]`

Writes a boolean to the bytes message stream as a 1-byte value. The value true is written as the value (byte)1; the value false is written as the value (byte)0.

Parameters:

value boolean to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in *activemq::commands::ActiveMQBytesMessage* (p. 173).

6.120.3.20 `virtual void cms::BytesMessage::writeByte (unsigned char value) throw (
cms::CMSEException) [pure virtual]`

Writes a byte to the bytes message stream as a 1-byte value.

Parameters:

value byte to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in *activemq::commands::ActiveMQBytesMessage* (p. 173).

6.120.3.21 `virtual void cms::BytesMessage::writeBytes (const unsigned char * value, std::size_t offset, std::size_t length) throw (cms::CMSEException)` [pure virtual]

Writes a portion of a byte array to the bytes message stream. size as the number of bytes to write.

Parameters:

value bytes to write to the stream

offset the initial offset within the byte array

length the number of bytes to use

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 173).

6.120.3.22 `virtual void cms::BytesMessage::writeBytes (const std::vector< unsigned char > & value) throw (cms::CMSEException)` [pure virtual]

Writes a byte array to the bytes message stream using the vector size as the number of bytes to write.

Parameters:

value bytes to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 174).

6.120.3.23 `virtual void cms::BytesMessage::writeChar (char value) throw (cms::CMSEException)` [pure virtual]

Writes a char to the bytes message stream as a 1-byte value.

Parameters:

value char to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 174).

6.120.3.24 `virtual void cms::BytesMessage::writeDouble (double value) throw (cms::CMSException)` [pure virtual]

Writes a double to the bytes message stream as a 8 byte value.

Parameters:

value double to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 174).

6.120.3.25 `virtual void cms::BytesMessage::writeFloat (float value) throw (cms::CMSException)` [pure virtual]

Writes a float to the bytes message stream as a 4 byte value.

Parameters:

value float to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 175).

6.120.3.26 `virtual void cms::BytesMessage::writeInt (int value) throw (cms::CMSException)` [pure virtual]

Writes a signed int to the bytes message stream as a 4 byte value.

Parameters:

value signed int to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 175).

6.120.3.27 virtual void cms::ByteMessage::writeLong (long long *value*) throw (cms::CMSEException) [pure virtual]

Writes a long long to the bytes message stream as a 8 byte value.

Parameters:

value signed long long to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in **activemq::commands::ActiveMQByteMessage** (p. 175).

6.120.3.28 virtual void cms::ByteMessage::writeShort (short *value*) throw (cms::CMSEException) [pure virtual]

Writes a signed short to the bytes message stream as a 2 byte value.

Parameters:

value signed short to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in **activemq::commands::ActiveMQByteMessage** (p. 175).

6.120.3.29 virtual void cms::ByteMessage::writeString (const std::string & *value*) throw (cms::CMSEException) [pure virtual]

Writes an ASCII String to the Bytes message stream.

Parameters:

value String to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in **activemq::commands::ActiveMQByteMessage** (p. 176).

6.120.3.30 `virtual void cms::BytesMessage::writeUnsignedShort (unsigned short value) throw (cms::CMSException)` [pure virtual]

Writes a unsigned short to the bytes message stream as a 2 byte value.

Parameters:

value unsigned short to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 176).

6.120.3.31 `virtual void cms::BytesMessage::writeUTF (const std::string & value) throw (cms::CMSException)` [pure virtual]

Writes an UTF String to the `BytesMessage` (p. 759) stream.

Parameters:

value String to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of bytes stream has been reached.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 176).

The documentation for this class was generated from the following file:

- `src/main/cms/BytesMessage.h`

6.121 activemq::cmsutil::CachedConsumer Class Reference

A cached message consumer contained within a pooled session.

#include <src/main/activemq/cmsutil/CachedConsumer.h> Inheritance diagram for activemq::cmsutil::CachedConsumer:

Public Member Functions

- **CachedConsumer** (cms::MessageConsumer *consumer)
- virtual ~**CachedConsumer** ()
- virtual void **close** () throw (cms::CMSEException)
Does nothing - the real producer resource will be closed by the lifecycle manager.
- virtual cms::Message * **receive** () throw (cms::CMSEException)
Synchronously Receive a Message.
- virtual cms::Message * **receive** (int millisecs) throw (cms::CMSEException)
Synchronously Receive a Message, time out after defined interval.
- virtual cms::Message * **receiveNoWait** () throw (cms::CMSEException)
Receive a Message, does not wait if there isn't a new message to read, returns NULL if nothing read.
- virtual void **setMessageListener** (cms::MessageListener *listener) throw (cms::CMSEException)
Sets the MessageListener that this class will send notifs on.
- virtual cms::MessageListener * **getMessageListener** () const throw (cms::CMSEException)
Gets the MessageListener that this class will send new Message notification events to.
- virtual std::string **getMessageSelector** () const throw (cms::CMSEException)
Gets this message consumer's message selector expression.

6.121.1 Detailed Description

A cached message consumer contained within a pooled session.

6.121.2 Constructor & Destructor Documentation

6.121.2.1 `activemq::cmsutil::CachedConsumer::CachedConsumer (cms::MessageConsumer * consumer) [inline]`

6.121.2.2 `virtual activemq::cmsutil::CachedConsumer::~~CachedConsumer () [inline, virtual]`

6.121.3 Member Function Documentation

6.121.3.1 `virtual void activemq::cmsutil::CachedConsumer::close () throw (cms::CMSEException) [inline, virtual]`

Does nothing - the real producer resource will be closed by the lifecycle manager.

Implements `cms::Closeable` (p. 838).

6.121.3.2 `virtual cms::MessageListener* activemq::cmsutil::CachedConsumer::getMessageListener () const throw (cms::CMSEException) [inline, virtual]`

Gets the MessageListener that this class will send new Message notification events to.

Returns:

The listener of messages received by this consumer

Exceptions:

CMSEException - If an internal error occurs.

Implements `cms::MessageConsumer` (p. 1796).

6.121.3.3 `virtual std::string activemq::cmsutil::CachedConsumer::getMessageSelector () const throw (cms::CMSEException) [inline, virtual]`

Gets this message consumer's message selector expression.

Returns:

This Consumer's selector expression or "".

Exceptions:

CMSEException - If an internal error occurs.

Implements `cms::MessageConsumer` (p. 1796).

6.121.3.4 `virtual cms::Message* activemq::cmsutil::CachedConsumer::receive (int milliseconds) throw (cms::CMSEException) [inline, virtual]`

Synchronously Receive a Message, time out after defined interval. Returns null if nothing read.

Returns:

new message which the caller owns and must delete.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::MessageConsumer** (p. 1796).

6.121.3.5 `virtual cms::Message* activemq::cmsutil::CachedConsumer::receive ()
throw (cms::CMSEException) [inline, virtual]`

Synchronously Receive a Message.

Returns:

new message which the caller owns and must delete.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::MessageConsumer** (p. 1797).

6.121.3.6 `virtual cms::Message* ac-
tivismq::cmsutil::CachedConsumer::receiveNoWait ()
throw (cms::CMSEException) [inline, virtual]`

Receive a Message, does not wait if there isn't a new message to read, returns NULL if nothing read.

Returns:

new message which the caller owns and must delete.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::MessageConsumer** (p. 1797).

6.121.3.7 `virtual void activemq::cmsutil::CachedConsumer::setMessageListener
(cms::MessageListener * listener) throw (cms::CMSEException)
[inline, virtual]`

Sets the MessageListener that this class will send notifs on.

Parameters:

listener The listener of messages received by this consumer.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::MessageConsumer** (p. 1797).

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/CachedConsumer.h`

6.122 activemq::cmsutil::CachedProducer Class Reference

A cached message producer contained within a pooled session.

#include <src/main/activemq/cmsutil/CachedProducer.h> Inheritance diagram for activemq::cmsutil::CachedProducer:

Public Member Functions

- **CachedProducer** (**cms::MessageProducer** *producer)
- virtual **~CachedProducer** ()
- virtual void **close** () throw (cms::CMSEException)
Does nothing - the real producer resource will be closed by the lifecycle manager.
- virtual void **send** (**cms::Message** *message) throw (cms::CMSEException)
Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.
- virtual void **send** (**cms::Message** *message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSEException)
Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.
- virtual void **send** (const **cms::Destination** *destination, **cms::Message** *message) throw (cms::CMSEException)
Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.
- virtual void **send** (const **cms::Destination** *destination, **cms::Message** *message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSEException)
Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.
- virtual void **setDeliveryMode** (int mode) throw (cms::CMSEException)
Sets the delivery mode for this Producer.
- virtual int **getDeliveryMode** () const throw (cms::CMSEException)
Gets the delivery mode for this Producer.
- virtual void **setDisableMessageID** (bool value) throw (cms::CMSEException)
Sets if Message Ids are disabled for this Producer.
- virtual bool **getDisableMessageID** () const throw (cms::CMSEException)
Gets if Message Ids are disabled for this Producer.
- virtual void **setDisableMessageTimeStamp** (bool value) throw (cms::CMSEException)
Sets if Message Time Stamps are disabled for this Producer.
- virtual bool **getDisableMessageTimeStamp** () const throw (cms::CMSEException)

Gets if Message Time Stamps are disabled for this Producer.

- virtual void **setPriority** (int priority) throw (cms::CMSEException)
Sets the Priority that this Producers sends messages at.
- virtual int **getPriority** () const throw (cms::CMSEException)
Gets the Priority level that this producer sends messages at.
- virtual void **setTimeToLive** (long long time) throw (cms::CMSEException)
Sets the Time to Live that this Producers sends messages with.
- virtual long long **getTimeToLive** () const throw (cms::CMSEException)
Gets the Time to Live that this producer sends messages with.

6.122.1 Detailed Description

A cached message producer contained within a pooled session.

6.122.2 Constructor & Destructor Documentation

6.122.2.1 `activemq::cmsutil::CachedProducer::CachedProducer (cms::MessageProducer * producer) [inline]`

6.122.2.2 `virtual activemq::cmsutil::CachedProducer::~~CachedProducer () [inline, virtual]`

6.122.3 Member Function Documentation

6.122.3.1 `virtual void activemq::cmsutil::CachedProducer::close () throw (cms::CMSEException) [inline, virtual]`

Does nothing - the real producer resource will be closed by the lifecycle manager.

Implements `cms::Closeable` (p. 838).

6.122.3.2 `virtual int activemq::cmsutil::CachedProducer::getDeliveryMode () const throw (cms::CMSEException) [inline, virtual]`

Gets the delivery mode for this Producer.

Returns:

The DeliveryMode

Exceptions:

CMSEException - if an internal error occurs.

Implements `cms::MessageProducer` (p. 1879).

6.122.3.3 virtual bool activemq::cmsutil::CachedProducer::getDisableMessageID () const throw (cms::CMSEException) [inline, virtual]

Gets if Message Ids are disabled for this Producer.

Returns:

boolean indicating enable / disable (true / false)

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p.1880).

6.122.3.4 virtual bool activemq::cmsutil::CachedProducer::getDisableMessageTimeStamp () const throw (cms::CMSEException) [inline, virtual]

Gets if Message Time Stamps are disabled for this Producer.

Returns:

boolean indicating enable / disable (true / false)

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p.1880).

6.122.3.5 virtual int activemq::cmsutil::CachedProducer::getPriority () const throw (cms::CMSEException) [inline, virtual]

Gets the Priority level that this producer sends messages at.

Returns:

int based priority level

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p.1880).

6.122.3.6 virtual long long activemq::cmsutil::CachedProducer::getTimeToLive () const throw (cms::CMSEException) [inline, virtual]

Gets the Time to Live that this producer sends messages with.

Returns:

Time to live value in milliseconds

Exceptions:

CMSEException - if an internal error occurs.

Implements `cms::MessageProducer` (p.1880).

6.122.3.7 `virtual void activemq::cmsutil::CachedProducer::send (const cms::Destination * destination, cms::Message * message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSEException)` [inline, virtual]

Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.

Parameters:

destination The destination on which to send the message

message The message to be sent.

deliveryMode The delivery mode to be used.

priority The priority for this message.

timeToLive The time to live value for this message in milliseconds.

Exceptions:

CMSEException - if an internal error occurs.

Implements `cms::MessageProducer` (p.1881).

6.122.3.8 `virtual void activemq::cmsutil::CachedProducer::send (const cms::Destination * destination, cms::Message * message) throw (cms::CMSEException)` [inline, virtual]

Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it. Uses default values for deliveryMode, priority, and time to live.

Parameters:

destination The destination on which to send the message

message the message to be sent.

Exceptions:

CMSEException - if an internal error occurs.

Implements `cms::MessageProducer` (p.1881).

6.122.3.9 `virtual void activemq::cmsutil::CachedProducer::send (cms::Message * message, int deliveryMode, int priority, long long timeToLive) throw (cms::CMSEException)` [inline, virtual]

Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.

Parameters:

message The message to be sent.
deliveryMode The delivery mode to be used.
priority The priority for this message.
timeToLive The time to live value for this message in milliseconds.

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p. 1882).

6.122.3.10 virtual void activemq::cmsutil::CachedProducer::send (cms::Message * message) throw (cms::CMSEException) [inline, virtual]

Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it. Uses default values for deliveryMode, priority, and time to live.

Parameters:

message The message to be sent.

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p. 1882).

6.122.3.11 virtual void activemq::cmsutil::CachedProducer::setDeliveryMode (int mode) throw (cms::CMSEException) [inline, virtual]

Sets the delivery mode for this Producer.

Parameters:

mode The DeliveryMode

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p. 1882).

6.122.3.12 virtual void activemq::cmsutil::CachedProducer::setDisableMessageID (bool value) throw (cms::CMSEException) [inline, virtual]

Sets if Message Ids are disabled for this Producer.

Parameters:

value boolean indicating enable / disable (true / false)

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p.1883).

6.122.3.13 `virtual void activemq::cmsutil::CachedProducer::setDisableMessageTimeStamp (bool value) throw (cms::CMSEException) [inline, virtual]`

Sets if Message Time Stamps are disabled for this Producer.

Parameters:

value - boolean indicating enable / disable (true / false)

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p.1883).

6.122.3.14 `virtual void activemq::cmsutil::CachedProducer::setPriority (int priority) throw (cms::CMSEException) [inline, virtual]`

Sets the Priority that this Producers sends messages at.

Parameters:

priority int value for Priority level

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p.1883).

6.122.3.15 `virtual void activemq::cmsutil::CachedProducer::setTimeToLive (long long time) throw (cms::CMSEException) [inline, virtual]`

Sets the Time to Live that this Producers sends messages with. This value will be used if the time to live is not specified via the send method.

Parameters:

time default time to live value in milliseconds

Exceptions:

CMSEException - if an internal error occurs.

Implements **cms::MessageProducer** (p.1883).

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/**CachedProducer.h**

6.123 decaf::util::concurrent::Callable< V > Class Template Reference

```
#include <src/main/decaf/util/concurrent/Callable.h>
```

Public Member Functions

- virtual `~Callable ()`
- virtual `V call ()=0 throw (decaf::lang::Exception)`
Computes a result, or throws an exception if unable to do so.

```
template<typename V> class decaf::util::concurrent::Callable< V >
```

6.123.1 Constructor & Destructor Documentation

6.123.1.1 `template<typename V > virtual decaf::util::concurrent::Callable< V >::~~Callable () [inline, virtual]`

6.123.2 Member Function Documentation

6.123.2.1 `template<typename V > virtual V decaf::util::concurrent::Callable< V >::call () throw (decaf::lang::Exception) [pure virtual]`

Computes a result, or throws an exception if unable to do so.

Returns:

Computed Result.

Exceptions:

Exception If unable to compute a result.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/Callable.h`

6.124 decaf::util::concurrent::CancellationException Class Reference

#include <src/main/decaf/util/concurrent/CancellationException.h> Inheritance diagram for decaf::util::concurrent::CancellationException:

Public Member Functions

- **CancellationException** () throw ()
Default Constructor.
- **CancellationException** (const decaf::lang::Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **CancellationException** (const CancellationException &ex) throw ()
Copy Constructor.
- **CancellationException** (const std::exception *cause) throw ()
Constructor.
- **CancellationException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **CancellationException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **CancellationException** * clone () const
Clones this exception.
- virtual ~**CancellationException** () throw ()

6.124.1 Constructor & Destructor Documentation

6.124.1.1 decaf::util::concurrent::CancellationException::CancellationException () throw () [inline]

Default Constructor.

6.124.1.2 decaf::util::concurrent::CancellationException::CancellationException (const decaf::lang::Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References `decaf::lang::Exception::Exception()`.

6.124.1.3 `decaf::util::concurrent::CancellationException::CancellationException` (const CancellationException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex - The Exception to copy in this new instance.

References `decaf::lang::Exception::Exception()`.

6.124.1.4 `decaf::util::concurrent::CancellationException::CancellationException` (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.124.1.5 `decaf::util::concurrent::CancellationException::CancellationException` (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs

lineNumber - The line number where the exception occurred.

msg - The message to report

... - list of primitives that are formatted into the message

6.124.1.6 `decaf::util::concurrent::CancellationException::CancellationException` (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs

lineNumber - The line number where the exception occurred.

cause - The exception that was the cause for this one to be thrown.

msg - The message to report

... - list of primitives that are formatted into the message

6.124.1.7 **virtual**
decaf::util::concurrent::CancellationException::~~CancellationException ()
throw () [inline, virtual]

6.124.2 Member Function Documentation

6.124.2.1 **virtual CancellationException* de-**
caf::util::concurrent::CancellationException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new instance of an exception that is a clone of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/CancellationException.h`

6.125 decaf::security::cert::Certificate Class Reference

Base interface for all identity certificates.

#include <src/main/decaf/security/cert/Certificate.h>Inheritance diagram for decaf::security::cert::Certificate:

Public Member Functions

- virtual **~Certificate** ()
- virtual bool **equals** (const **Certificate** &cert) const =0
Compares the encoded form of the two certificates.
- virtual void **getEncoded** (std::vector< unsigned char > &output) const =0 throw (CertificateEncodingException)
Provides the encoded form of this certificate.
- virtual std::string **getType** () const =0
Returns the type of this certificate.
- virtual **PublicKey** * **getPublicKey** ()=0
Gets the public key of this certificate.
- virtual const **PublicKey** * **getPublicKey** () const =0
Gets the public key of this certificate.
- virtual void **verify** (const **PublicKey** &publicKey) const =0 throw (NoSuchAlgorithmException, InvalidKeyException, NoSuchProviderException, SignatureException, CertificateException)
Verifies that this certificate was signed with the private key that corresponds to the specified public key.
- virtual void **verify** (const **PublicKey** &publicKey, const std::string &sigProvider) const =0 throw (NoSuchAlgorithmException, InvalidKeyException, NoSuchProviderException, SignatureException, CertificateException)
Verifies that this certificate was signed with the private key that corresponds to the specified public key.
- virtual std::string **toString** () const =0
Returns a string representation of this certificate.

6.125.1 Detailed Description

Base interface for all identity certificates.

6.125.2 Constructor & Destructor Documentation

6.125.2.1 `virtual decaf::security::cert::Certificate::~~Certificate () [inline, virtual]`

6.125.3 Member Function Documentation

6.125.3.1 `virtual bool decaf::security::cert::Certificate::equals (const Certificate & cert) const [pure virtual]`

Compares the encoded form of the two certificates.

Parameters:

cert (p. 110) The certificate to be tested for equality with this certificate.

Returns:

true if the given certificate is equal to this certificate.

6.125.3.2 `virtual void decaf::security::cert::Certificate::getEncoded (std::vector< unsigned char > & output) const throw (CertificateEncodingException) [pure virtual]`

Provides the encoded form of this certificate.

Parameters:

output Receives the encoded form of this certificate.

Exceptions:

CertificateEncodingException (p. 791) if an encoding error occurs

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate` (p. 1966).

6.125.3.3 `virtual const PublicKey* decaf::security::cert::Certificate::getPublicKey () const [pure virtual]`

Gets the public key of this certificate.

Returns:

the public key

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate` (p. 1967).

6.125.3.4 `virtual PublicKey* decaf::security::cert::Certificate::getPublicKey () [pure virtual]`

Gets the public key of this certificate.

Returns:

the public key

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate` (p. 1967).

6.125.3.5 virtual std::string decaf::security::cert::Certificate::getType () const
[pure virtual]

Returns the type of this certificate.

Returns:

the type of this certificate

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate` (p. 1968).

6.125.3.6 virtual std::string decaf::security::cert::Certificate::toString () const
[pure virtual]

Returns a string representation of this certificate.

Returns:

a string representation of this certificate

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate` (p. 1968).

6.125.3.7 virtual void decaf::security::cert::Certificate::verify (const PublicKey & *publicKey*, const std::string & *sigProvider*) const
throw (`NoSuchAlgorithmException`, `InvalidKeyException`, `NoSuchProviderException`, `SignatureException`, `CertificateException`)
[pure virtual]

Verifies that this certificate was signed with the private key that corresponds to the specified public key. Uses the verification engine of the specified provider.

Parameters:

publicKey The public key used to carry out the validation.

sigProvider The name of the signature provider

Exceptions:

NoSuchAlgorithmException (p. 1942) - on unsupported signature algorithms.

InvalidKeyException (p. 1467) - on incorrect key.

NoSuchProviderException (p. 1948) - if there's no default provider.

SignatureException (p. 2364) - on signature errors.

CertificateException (p. 793) - on encoding errors.

6.125.3.8 `virtual void decaf::security::cert::Certificate::verify (const PublicKey & publicKey) const throw (NoSuchAlgorithmException, InvalidKeyException, NoSuchProviderException, SignatureException, CertificateException) [pure virtual]`

Verifies that this certificate was signed with the private key that corresponds to the specified public key.

Parameters:

publicKey The public key used to carry out the validation.

Exceptions:

NoSuchAlgorithmException (p. 1942) - on unsupported signature algorithms.

InvalidKeyException (p. 1467) - on incorrect key.

NoSuchProviderException (p. 1948) - if there's no default provider.

SignatureException (p. 2364) - on signature errors.

CertificateException (p. 793) - on encoding errors.

The documentation for this class was generated from the following file:

- `src/main/decaf/security/cert/Certificate.h`

6.126 decaf::security::cert::CertificateEncodingException Class Reference

#include <src/main/decaf/security/cert/CertificateEncodingException.h> Inheritance diagram for decaf::security::cert::CertificateEncodingException:

Public Member Functions

- **CertificateEncodingException** () throw ()
Default Constructor.
- **CertificateEncodingException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **CertificateEncodingException** (const **CertificateEncodingException** &ex) throw ()
Copy Constructor.
- **CertificateEncodingException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **CertificateEncodingException** * clone () const
Clones this exception.
- virtual ~**CertificateEncodingException** () throw ()

6.126.1 Constructor & Destructor Documentation

6.126.1.1 decaf::security::cert::CertificateEncodingException::CertificateEncodingException () throw () [inline]

Default Constructor.

6.126.1.2 decaf::security::cert::CertificateEncodingException::CertificateEncodingException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.126.1.3 decaf::security::cert::CertificateEncodingException::CertificateEncodingException (const CertificateEncodingException & ex) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.126.1.4 `decaf::security::cert::CertificateEncodingException::CertificateEncodingException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.126.1.5 `virtual decaf::security::cert::CertificateEncodingException::~CertificateEncodingException () throw () [inline, virtual]`

6.126.2 Member Function Documentation

6.126.2.1 `virtual CertificateEncodingException* decaf::security::cert::CertificateEncodingException::clone () const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from `decaf::security::cert::CertificateException` (p. 794).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/cert/CertificateEncodingException.h`

6.127 decaf::security::cert::CertificateException Class Reference

#include <src/main/decaf/security/cert/CertificateException.h> Inheritance diagram for decaf::security::cert::CertificateException:

Public Member Functions

- **CertificateException** () throw ()
Default Constructor.
- **CertificateException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **CertificateException** (const **CertificateException** &ex) throw ()
Copy Constructor.
- **CertificateException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **CertificateException** * **clone** () const
Clones this exception.
- virtual ~**CertificateException** () throw ()

6.127.1 Constructor & Destructor Documentation

6.127.1.1 decaf::security::cert::CertificateException::CertificateException () throw () [inline]

Default Constructor.

6.127.1.2 decaf::security::cert::CertificateException::CertificateException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.127.1.3 decaf::security::cert::CertificateException::CertificateException (const CertificateException & ex) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.127.1.4 `decaf::security::cert::CertificateException::CertificateException (const char * file, const int lineNumber, const char * msg, ...) throw ()`
[inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.127.1.5 `virtual decaf::security::cert::CertificateException::~~CertificateException () throw ()` [inline, virtual]

6.127.2 Member Function Documentation

6.127.2.1 `virtual CertificateException* decaf::security::cert::CertificateException::clone () const`
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from `decaf::security::GeneralSecurityException` (p. 1381).

Reimplemented in `decaf::security::cert::CertificateEncodingException` (p. 792), `decaf::security::cert::CertificateExpiredException` (p. 796), `decaf::security::cert::CertificateNotYetValidException` (p. 798), and `decaf::security::cert::CertificateParsingException` (p. 800).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/cert/CertificateException.h`

6.128 decaf::security::cert::CertificateExpiredException Class Reference

#include <src/main/decaf/security/cert/CertificateExpiredException.h>Inheritance diagram for decaf::security::cert::CertificateExpiredException:

Public Member Functions

- **CertificateExpiredException** () throw ()
Default Constructor.
- **CertificateExpiredException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **CertificateExpiredException** (const **CertificateExpiredException** &ex) throw ()
Copy Constructor.
- **CertificateExpiredException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **CertificateExpiredException** * clone () const
Clones this exception.
- virtual ~**CertificateExpiredException** () throw ()

6.128.1 Constructor & Destructor Documentation

6.128.1.1 decaf::security::cert::CertificateExpiredException::CertificateExpiredException () throw () [inline]

Default Constructor.

6.128.1.2 decaf::security::cert::CertificateExpiredException::CertificateExpiredException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.128.1.3 decaf::security::cert::CertificateExpiredException::CertificateExpiredException (const CertificateExpiredException & ex) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.128.1.4 `decaf::security::cert::CertificateExpiredException::CertificateExpiredException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.128.1.5 `virtual decaf::security::cert::CertificateExpiredException::~~CertificateExpiredException () throw () [inline, virtual]`

6.128.2 Member Function Documentation

6.128.2.1 `virtual CertificateExpiredException* decaf::security::cert::CertificateExpiredException::clone () const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from `decaf::security::cert::CertificateException` (p. 794).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/cert/CertificateExpiredException.h`

6.129 decaf::security::cert::CertificateNotYetValidException Class Reference

#include <src/main/decaf/security/cert/CertificateNotYetValidException.h> Inheritance diagram for decaf::security::cert::CertificateNotYetValidException:

Public Member Functions

- **CertificateNotYetValidException** () throw ()
Default Constructor.
- **CertificateNotYetValidException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **CertificateNotYetValidException** (const **CertificateNotYetValidException** &ex) throw ()
Copy Constructor.
- **CertificateNotYetValidException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **CertificateNotYetValidException** * clone () const
Clones this exception.
- virtual ~**CertificateNotYetValidException** () throw ()

6.129.1 Constructor & Destructor Documentation

6.129.1.1 decaf::security::cert::CertificateNotYetValidException::CertificateNotYetValidException () throw () [inline]

Default Constructor.

6.129.1.2 decaf::security::cert::CertificateNotYetValidException::CertificateNotYetValidException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.129.1.3 decaf::security::cert::CertificateNotYetValidException::CertificateNotYetValidException (const CertificateNotYetValidException & ex) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.129.1.4 `decaf::security::cert::CertificateNotYetValidException::CertificateNotYetValidException (const char * file, const int lineNumber, const char * msg, ...) throw ()` [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.129.1.5 `virtual decaf::security::cert::CertificateNotYetValidException::~~CertificateNotYetValidException () throw ()` [inline, virtual]

6.129.2 Member Function Documentation

6.129.2.1 `virtual CertificateNotYetValidException* decaf::security::cert::CertificateNotYetValidException::clone () const` [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from `decaf::security::cert::CertificateException` (p. 794).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/cert/CertificateNotYetValidException.h`

6.130 decaf::security::cert::CertificateParsingException Class Reference

#include <src/main/decaf/security/cert/CertificateParsingException.h>Inheritance diagram for decaf::security::cert::CertificateParsingException:

Public Member Functions

- **CertificateParsingException** () throw ()
Default Constructor.
- **CertificateParsingException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **CertificateParsingException** (const **CertificateParsingException** &ex) throw ()
Copy Constructor.
- **CertificateParsingException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **CertificateParsingException** * clone () const
Clones this exception.
- virtual ~**CertificateParsingException** () throw ()

6.130.1 Constructor & Destructor Documentation

6.130.1.1 decaf::security::cert::CertificateParsingException::CertificateParsingException () throw () [inline]

Default Constructor.

6.130.1.2 decaf::security::cert::CertificateParsingException::CertificateParsingException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.130.1.3 decaf::security::cert::CertificateParsingException::CertificateParsingException (const CertificateParsingException & ex) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.130.1.4 `decaf::security::cert::CertificateParsingException::CertificateParsingException (const char * file, const int lineNumber, const char * msg, ...) throw ()` [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.130.1.5 `virtual decaf::security::cert::CertificateParsingException::~~CertificateParsingException () throw ()` [inline, virtual]

6.130.2 Member Function Documentation

6.130.2.1 `virtual CertificateParsingException* decaf::security::cert::CertificateParsingException::clone () const` [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from `decaf::security::cert::CertificateException` (p. 794).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/cert/CertificateParsingException.h`

6.131 decaf::lang::Character Class Reference

#include <src/main/decaf/lang/Character.h> Inheritance diagram for decaf::lang::Character:

Public Member Functions

- **Character** (char value)
- virtual int **compareTo** (const **Character** &c) const
*Compares this **Character** (p. 801) instance with another.*
- virtual bool **operator==** (const **Character** &c) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Character** &c) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual int **compareTo** (const char &c) const
*Compares this **Character** (p. 801) instance with a char type.*
- virtual bool **operator==** (const char &c) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const char &c) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- bool **equals** (const **Character** &c) const
- bool **equals** (const char &c) const
- std::string **toString** () const
- virtual double **doubleValue** () const
Answers the double value which the receiver represents.
- virtual float **floatValue** () const
Answers the float value which the receiver represents.
- virtual unsigned char **byteValue** () const
Answers the byte value which the receiver represents.
- virtual short **shortValue** () const
Answers the short value which the receiver represents.
- virtual int **intValue** () const
Answers the int value which the receiver represents.
- virtual long long **longValue** () const
Answers the long value which the receiver represents.

Static Public Member Functions

- static **Character valueOf** (char value)
*Returns a **Character** (p. 801) instance representing the specified char value.*
- static bool **isWhitespace** (char c)
Indicates whether or not the given character is considered whitespace.
- static bool **isDigit** (char c)
Indicates whether or not the given character is a digit.
- static bool **isLowerCase** (char c)
Indicates whether or not the given character is a lower case character.
- static bool **isUpperCase** (char c)
Indicates whether or not the given character is a upper case character.
- static bool **isLetter** (char c)
Indicates whether or not the given character is a letter.
- static bool **isLetterOrDigit** (char c)
Indicates whether or not the given character is either a letter or a digit.
- static bool **isISOControl** (char c)
Answers whether the character is an ISO control character, which is a char that lays in the range of 0 to 1f and 7f to 9f.
- static int **digit** (char c, int radix)
Returns the numeric value of the character ch in the specified radix.

Static Public Attributes

- static const int **MIN_RADIX** = 2
The minimum radix available for conversion to and from strings.
- static const int **MAX_RADIX** = 36
The maximum radix available for conversion to and from strings.
- static const char **MIN_VALUE** = (char)0x7F
The minimum value that a signed char can take on.
- static const char **MAX_VALUE** = (char)0x80
The maximum value that a signed char can take on.
- static const int **SIZE** = 8
The size of the primitive charactor in bits.

6.131.1 Constructor & Destructor Documentation

6.131.1.1 decaf::lang::Character::Character (char *value*)

Parameters:

value - char to wrap.

6.131.2 Member Function Documentation

6.131.2.1 virtual unsigned char decaf::lang::Character::byteValue () const [inline, virtual]

Answers the byte value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from **decaf::lang::Number** (p. 1954).

6.131.2.2 virtual int decaf::lang::Character::compareTo (const char & *c*) const [inline, virtual]

Compares this **Character** (p. 801) instance with a char type.

Parameters:

c - the char instance to be compared

Returns:

zero if this object represents the same char value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

Implements **decaf::lang::Comparable< char >** (p. 899).

6.131.2.3 virtual int decaf::lang::Character::compareTo (const Character & *c*) const [inline, virtual]

Compares this **Character** (p. 801) instance with another.

Parameters:

c - the **Character** (p. 801) instance to be compared

Returns:

zero if this object represents the same char value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

6.131.2.4 static int decaf::lang::Character::digit (char *c*, int *radix*) [static]

Returns the numeric value of the character *ch* in the specified radix. If the radix is not in the range `MIN_RADIX <= radix <= MAX_RADIX` or if the value of *ch* is not a valid digit in the specified radix, -1 is returned. A character is a valid digit if at least one of the following is true:

* The method `isDigit` is true of the character and the single-character decomposition is less than the specified radix. In this case the decimal digit value is returned. * The character is one of the uppercase Latin letters 'A' through 'Z' and its code is less than `radix + 'A' - 10`. In this case, `ch - 'A' + 10` is returned. * The character is one of the lowercase Latin letters 'a' through 'z' and its code is less than `radix + 'a' - 10`. In this case, `ch - 'a' + 10` is returned.

Parameters:

c - the char to be converted
radix - the radix of the number

Returns:

the numeric value of the number represented in the given radix

6.131.2.5 virtual double decaf::lang::Character::doubleValue () const [inline, virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.131.2.6 bool decaf::lang::Character::equals (const char & *c*) const [inline, virtual]**Returns:**

true if the two Characters have the same value.

Implements **decaf::lang::Comparable< char >** (p.900).

6.131.2.7 bool decaf::lang::Character::equals (const Character & *c*) const [inline]**Returns:**

true if the two **Character** (p.801) Objects have the same value.

6.131.2.8 virtual float decaf::lang::Character::floatValue () const [inline, virtual]

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.131.2.9 `virtual int decaf::lang::Character::intValue () const [inline, virtual]`

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.131.2.10 `static bool decaf::lang::Character::isDigit (char c) [inline, static]`

Indicates whether or not the given character is a digit.

6.131.2.11 `static bool decaf::lang::Character::isISOControl (char c) [inline, static]`

Answers whether the character is an ISO control character, which is a char that lays in the range of 0 to 1f and 7f to 9f.

Parameters:

c - the character, including supplementary characters

Returns:

true if the char is an ISO control character

6.131.2.12 `static bool decaf::lang::Character::isLetter (char c) [inline, static]`

Indicates whether or not the given character is a letter.

6.131.2.13 `static bool decaf::lang::Character::isLetterOrDigit (char c) [inline, static]`

Indicates whether or not the given character is either a letter or a digit.

6.131.2.14 `static bool decaf::lang::Character::isLowerCase (char c) [inline, static]`

Indicates whether or not the given character is a lower case character.

6.131.2.15 `static bool decaf::lang::Character::isUpperCase (char c) [inline, static]`

Indicates whether or not the given character is a upper case character.

6.131.2.16 `static bool decaf::lang::Character::isWhitespace (char c) [inline, static]`

Indicates whether or not the given character is considered whitespace.

6.131.2.17 `virtual long long decaf::lang::Character::longValue () const [inline, virtual]`

Answers the long value which the receiver represents.

Returns:

long the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.131.2.18 `virtual bool decaf::lang::Character::operator< (const char & c) const [inline, virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable< char >** (p. 900).

6.131.2.19 `virtual bool decaf::lang::Character::operator< (const Character & c) const [inline, virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.131.2.20 `virtual bool decaf::lang::Character::operator== (const char & c) const [inline, virtual]`

Compares equality between this object and the one passed.

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable< char >** (p. 901).

6.131.2.21 `virtual bool decaf::lang::Character::operator==(const Character & c)
const [inline, virtual]`

Compares equality between this object and the one passed.

Parameters:

c - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.131.2.22 `virtual short decaf::lang::Character::shortValue () const [inline,
virtual]`

Answers the short value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from **decaf::lang::Number** (p.1956).

6.131.2.23 `std::string decaf::lang::Character::toString () const`

Returns:

this **Character** (p. 801) Object as a String Representation

6.131.2.24 `static Character decaf::lang::Character::valueOf (char value) [inline,
static]`

Returns a **Character** (p. 801) instance representing the specified char value.

Parameters:

value - the primitive char to wrap.

Returns:

a new Character instance that wraps this value.

6.131.3 Field Documentation

6.131.3.1 `const int decaf::lang::Character::MAX_RADIX = 36 [static]`

The maximum radix available for conversion to and from strings.

6.131.3.2 `const char decaf::lang::Character::MAX_VALUE = (char)0x80 [static]`

The maximum value that a signed char can take on.

6.131.3.3 `const int decaf::lang::Character::MIN_RADIX = 2` [static]

The minimum radix available for conversion to and from strings.

6.131.3.4 `const char decaf::lang::Character::MIN_VALUE = (char)0x7F` [static]

The minimum value that a signed char can take on.

6.131.3.5 `const int decaf::lang::Character::SIZE = 8` [static]

The size of the primitive character in bits.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Character.h`

6.132 decaf::internal::nio::CharArrayBuffer Class Reference

#include <src/main/decaf/internal/nio/CharArrayBuffer.h> Inheritance diagram for decaf::internal::nio::CharArrayBuffer:

Public Member Functions

- **CharArrayBuffer** (std::size_t capacity, bool **readOnly**=false)

*Creates a **CharArrayBuffer** (p. 809) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*
- **CharArrayBuffer** (char *array, std::size_t **offset**, std::size_t capacity, bool **readOnly**=false) throw (decaf::lang::exceptions::NullPointerException)

*Creates a **CharArrayBuffer** (p. 809) object that wraps the given array.*
- **CharArrayBuffer** (ByteArrayPerspective &array, std::size_t **offset**, std::size_t length, bool **readOnly**=false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

*Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset.*
- **CharArrayBuffer** (const **CharArrayBuffer** &other)

*Create a **CharArrayBuffer** (p. 809) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.*
- virtual ~**CharArrayBuffer** ()
- virtual char * **array** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)

Returns the character array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual CharBuffer * **asReadOnlyBuffer** () const

Creates a new, read-only char buffer that shares this buffer's content.
- virtual CharBuffer & **compact** () throw (decaf::nio::ReadOnlyBufferException)

Compacts this buffer.
- virtual CharBuffer * **duplicate** ()

Creates a new char buffer that shares this buffer's content.
- virtual char **get** () throw (decaf::nio::BufferUnderflowException)

Relative get method.
- virtual char **get** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)

Absolute get method.

- virtual bool **hasArray** () const
Tells whether or not this buffer is backed by an accessible char array.
- virtual bool **isReadOnly** () const
Tells whether or not this buffer is read-only.
- virtual CharBuffer & **put** (char value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)
Writes the given char into this buffer at the current position, and then increments the position.
- virtual CharBuffer & **put** (std::size_t index, char value) throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)
Writes the given char into this buffer at the given index.
- virtual CharBuffer * **slice** () const
Creates a new CharBuffer whose content is a shared subsequence of this buffer's content.
- virtual **lang::CharSequence** * **subSequence** (std::size_t start, std::size_t end) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Creates a new character buffer that represents the specified subsequence of this buffer, relative to the current position.

Protected Member Functions

- virtual void **setReadOnly** (bool value)
*Sets this **ByteArrayBuffer** (p. 694) as Read-Only.*

Protected Attributes

- bool **readOnly**
- **internal::nio::ByteArrayPerspective** * **_array**
- std::size_t **offset**

6.132.1 Constructor & Destructor Documentation

6.132.1.1 decaf::internal::nio::CharArrayBuffer::CharArrayBuffer (std::size_t *capacity*, bool *readOnly* = false)

Creates a **CharArrayBuffer** (p. 809) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

- capacity*** - size of the array, this is the limit we read and write to.
- readOnly*** - should this buffer be read-only, default as false

6.132.1.2 decaf::internal::nio::CharArrayBuffer::CharArrayBuffer (char * *array*, std::size_t *offset*, std::size_t *capacity*, bool *readOnly* = false) throw (decaf::lang::exceptions::NullPointerException)

Creates a **CharArrayBuffer** (p. 809) object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

offset - the position that is this buffers start pos.

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

Exceptions:

NullPointerException if buffer is NULL

6.132.1.3 decaf::internal::nio::CharArrayBuffer::CharArrayBuffer (ByteArrayPerspective & *array*, std::size_t *offset*, std::size_t *length*, bool *readOnly* = false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset. The capacity and limit of the new **CharArrayBuffer** (p. 809) will be that of the remaining capacity of the passed buffer.

Parameters:

array - the **ByteArrayPerspective** (p. 729) to wrap

offset - the offset into array where the buffer starts

length - the length of the array we are wrapping or limit.

readOnly - is this a readOnly buffer.

Exceptions:

IndexOutOfBoundsException if offset is greater than array capacity.

6.132.1.4 decaf::internal::nio::CharArrayBuffer::CharArrayBuffer (const CharArrayBuffer & *other*)

Create a **CharArrayBuffer** (p. 809) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.

Parameters:

other - the **CharArrayBuffer** (p. 809) this one is to mirror.

6.132.1.5 `virtual decaf::internal::nio::CharArrayBuffer::~~CharArrayBuffer ()`
[virtual]

6.132.2 Member Function Documentation

6.132.2.1 `virtual char* decaf::internal::nio::CharArrayBuffer::array ()`
`throw (decaf::lang::exceptions::UnsupportedOperationException,`
`decaf::nio::ReadOnlyBufferException)` [virtual]

Returns the character array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this Buffer

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements `decaf::nio::CharBuffer` (p. 822).

6.132.2.2 `virtual std::size_t decaf::internal::nio::CharArrayBuffer::arrayOffset`
`() throw (decaf::lang::exceptions::UnsupportedOperationException,`
`decaf::nio::ReadOnlyBufferException)` [virtual]

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements `decaf::nio::CharBuffer` (p. 822).

6.132.2.3 `virtual CharBuffer* de-`
`caf::internal::nio::CharArrayBuffer::asReadOnlyBuffer ()`
`const` [virtual]

Creates a new, read-only char buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the duplicate method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only char buffer which the caller then owns.

Implements **decaf::nio::CharBuffer** (p. 822).

**6.132.2.4 virtual CharBuffer& decaf::internal::nio::CharArrayBuffer::compact ()
throw (decaf::nio::ReadOnlyBufferException) [virtual]**

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \text{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index $\text{limit}()$ (p. 631) - 1 is copied to index $n = \text{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this CharBuffer

Exceptions:

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::CharBuffer** (p. 823).

**6.132.2.5 virtual CharBuffer* decaf::internal::nio::CharArrayBuffer::duplicate ()
[virtual]**

Creates a new char buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new char Buffer which the caller owns.

Implements **decaf::nio::CharBuffer** (p. 824).

**6.132.2.6 virtual char decaf::internal::nio::CharArrayBuffer::get (std::size_t index)
const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]**

Absolute get method. Reads the char at the given index.

Parameters:

index - the index in the Buffer where the char is to be read

Returns:

the char that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::CharBuffer** (p. 825).

6.132.2.7 `virtual char decaf::internal::nio::CharArrayBuffer::get () throw (decaf::nio::BufferUnderflowException) [virtual]`

Relative get method. Reads the character at this buffer's current position, and then increments the position.

Returns:

the char at the current position

Exceptions:

BufferUnderflowException if there no more data to return

Implements **decaf::nio::CharBuffer** (p. 825).

6.132.2.8 `virtual bool decaf::internal::nio::CharArrayBuffer::hasArray () const [inline, virtual]`

Tells whether or not this buffer is backed by an accessible char array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implements **decaf::nio::CharBuffer** (p. 826).

6.132.2.9 `virtual bool decaf::internal::nio::CharArrayBuffer::isReadOnly () const [inline, virtual]`

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::Buffer** (p. 630).

6.132.2.10 `virtual CharBuffer& decaf::internal::nio::CharArrayBuffer::put (std::size_t index, char value) throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]`

Writes the given char into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data
value - the char to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::CharBuffer** (p. 828).

6.132.2.11 **virtual CharBuffer& decaf::internal::nio::CharArrayBuffer::put**
 (char *value*) throw (decaf::nio::BufferOverflowException,
 decaf::nio::ReadOnlyBufferException) [virtual]

Writes the given char into this buffer at the current position, and then increments the position.

Parameters:

value - the char value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::CharBuffer** (p. 828).

6.132.2.12 **virtual void decaf::internal::nio::CharArrayBuffer::setReadOnly (bool**
 ***value*) [inline, protected, virtual]**

Sets this **ByteBuffer** (p. 694) as Read-Only.

Parameters:

value - true if this buffer is to be read-only.

6.132.2.13 **virtual CharBuffer* decaf::internal::nio::CharArrayBuffer::slice () const**
 [virtual]

Creates a new CharBuffer whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create CharBuffer which the caller owns.

Implements **decaf::nio::CharBuffer** (p. 830).

6.132.2.14 **virtual lang::CharSequence* decaf::internal::nio::CharArrayBuffer::subSequence (std::size_t start, std::size_t end) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)** [virtual]

Creates a new character buffer that represents the specified subsequence of this buffer, relative to the current position. The new buffer will share this buffer's content; that is, if the content of this buffer is mutable then modifications to one buffer will cause the other to be modified. The new buffer's capacity will be that of this buffer, its position will be **position()** (p. 631) + start, and its limit will be **position()** (p. 631) + end. The new Buffer will be read-only if, and only if, this buffer is read-only.

Parameters:

- start** - The index, relative to the current position, of the first character in the subsequence; must be non-negative and no larger than **remaining()** (p. 632)
- end** - The index, relative to the current position, of the character following the last character in the subsequence; must be no smaller than start and no larger than **remaining()** (p. 632)

Returns:

The new character buffer, caller owns

Exceptions:

IndexOutOfBoundsException - If the preconditions on start and end fail

Implements **decaf::nio::CharBuffer** (p. 831).

6.132.3 Field Documentation

6.132.3.1 **internal::nio::ByteArrayPerspective* decaf::internal::nio::CharArrayBuffer::_array** [protected]

6.132.3.2 **std::size_t decaf::internal::nio::CharArrayBuffer::offset** [protected]

6.132.3.3 **bool decaf::internal::nio::CharArrayBuffer::readOnly** [protected]

The documentation for this class was generated from the following file:

- src/main/decaf/internal/nio/CharArrayBuffer.h

6.133 decaf::nio::CharBuffer Class Reference

This class defines four categories of operations upon character buffers:.

```
#include <src/main/decaf/nio/CharBuffer.h>
Inheritance diagram for decaf::nio::CharBuffer:
```

Public Member Functions

- virtual **~CharBuffer** ()
- virtual std::string **toString** () const
- **CharBuffer & append** (char value) throw (BufferOverflowException, ReadOnlyBufferException)
Appends the specified character to this buffer.
- **CharBuffer & append** (const lang::CharSequence *value) throw (BufferOverflowException, ReadOnlyBufferException)
Appends the specified character sequence to this buffer.
- **CharBuffer & append** (const lang::CharSequence *value, std::size_t start, std::size_t end) throw (decaf::lang::exceptions::IndexOutOfBoundsException, BufferOverflowException, ReadOnlyBufferException)
Appends a subsequence of the specified character sequence to this buffer If value is Null the the string "null" is appended to the buffer.
- virtual char * **array** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the character array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual **CharBuffer * asReadOnlyBuffer** () const =0
Creates a new, read-only char buffer that shares this buffer's content.
- char **charAt** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Reads the character at the given index relative to the current position.
- virtual **CharBuffer & compact** ()=0 throw (ReadOnlyBufferException)
Compacts this buffer.
- virtual **CharBuffer * duplicate** ()=0
Creates a new char buffer that shares this buffer's content.
- virtual char **get** ()=0 throw (BufferUnderflowException)
Relative get method.

- virtual char **get** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- **CharBuffer** & **get** (std::vector< char > buffer) throw (BufferUnderflowException)
Relative bulk get method.
- **CharBuffer** & **get** (char *buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)
Relative bulk get method.
- virtual bool **hasArray** () const =0
Tells whether or not this buffer is backed by an accessible char array.
- std::size_t **length** () const
Returns the length of this character buffer.
- **CharBuffer** & **put** (**CharBuffer** &src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)
This method transfers the chars remaining in the given source buffer into this buffer.
- **CharBuffer** & **put** (const char *buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)
This method transfers chars into this buffer from the given source array.
- **CharBuffer** & **put** (std::vector< char > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)
This method transfers the entire content of the given source char array into this buffer.
- virtual **CharBuffer** & **put** (char value)=0 throw (BufferOverflowException, ReadOnlyBufferException)
Writes the given char into this buffer at the current position, and then increments the position.
- virtual **CharBuffer** & **put** (std::size_t index, char value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)
Writes the given char into this buffer at the given index.
- **CharBuffer** & **put** (const std::string &src, std::size_t start, std::size_t end) throw (BufferOverflowException, ReadOnlyBufferException, decaf::lang::exceptions::IndexOutOfBoundsException)
Relative bulk put method (optional operation).
- **CharBuffer** & **put** (const std::string &src) throw (BufferOverflowException, ReadOnlyBufferException)
Relative bulk put method (optional operation).
- virtual std::size_t **read** (**CharBuffer** *target) throw (decaf::lang::exceptions::NullPointerException, decaf::lang::exceptions::IllegalArgumentException, ReadOnlyBufferException)
Attempts to read characters into the specified character buffer.

- virtual **lang::CharSequence** * **subSequence** (std::size_t start, std::size_t end) const =0
throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Creates a new character buffer that represents the specified subsequence of this buffer, relative to the current position.
- virtual **CharBuffer** * **slice** () const =0
*Creates a new **CharBuffer** (p. 817) whose content is a shared subsequence of this buffer's content.*
- virtual int **compareTo** (const **CharBuffer** &value) const
Compares this object with the specified object for order.
- virtual bool **equals** (const **CharBuffer** &value) const
- virtual bool **operator==** (const **CharBuffer** &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **CharBuffer** &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static **CharBuffer** * **allocate** (std::size_t capacity)
Allocates a new character buffer.
- static **CharBuffer** * **wrap** (char *array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
*Wraps the passed buffer with a new **CharBuffer** (p. 817).*
- static **CharBuffer** * **wrap** (std::vector< char > &buffer)
*Wraps the passed STL char Vector in a **CharBuffer** (p. 817).*

Protected Member Functions

- **CharBuffer** (std::size_t capacity)
*Creates a **CharBuffer** (p. 817) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*

6.133.1 Detailed Description

This class defines four categories of operations upon character buffers: o Absolute and relative get and put methods that read and write single characters; o Relative bulk get methods that transfer contiguous sequences of characters from this buffer into an array; and o Relative bulk put methods that transfer contiguous sequences of characters from a character array, a string, or some other character buffer into this buffer. o Methods for compacting, duplicating, and slicing a character buffer.

Character buffers can be created either by allocation, which allocates space for the buffer's content, by wrapping an existing character array or string into a buffer, or by creating a view of an existing byte buffer

This class implements the `CharSequence` interface so that character buffers may be used wherever character sequences are accepted, for example in the regular-expression package `decaf.util.regex`.

Methods in this class that do not otherwise have a value to return are specified to return the buffer upon which they are invoked. This allows method invocations to be chained. The sequence of statements

```
cb.put("text/"); cb.put(subtype); cb.put("; charset="); cb.put(enc);
```

can, for example, be replaced by the single statement

```
cb.put("text/").put(subtype).put("; charset=").put(enc);
```

6.133.2 Constructor & Destructor Documentation

6.133.2.1 `decaf::nio::CharBuffer::CharBuffer (std::size_t capacity)` [protected]

Creates a **CharBuffer** (p. 817) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

6.133.2.2 `virtual decaf::nio::CharBuffer::~~CharBuffer ()` [inline, virtual]

6.133.3 Member Function Documentation

6.133.3.1 `static CharBuffer* decaf::nio::CharBuffer::allocate (std::size_t capacity)` [static]

Allocates a new character buffer. The new buffer's position will be zero, its limit will be its capacity, and its mark will be undefined. It will have a backing array, and its array offset will be zero.

Parameters:

capacity - The size of the Char buffer in chars (1 byte).

Returns:

the **CharBuffer** (p. 817) that was allocated, caller owns.

6.133.3.2 `CharBuffer& decaf::nio::CharBuffer::append (const lang::CharSequence * value, std::size_t start, std::size_t end) throw (decaf::lang::exceptions::IndexOutOfBoundsException, BufferOverflowException, ReadOnlyBufferException)` [virtual]

Appends a subsequence of the specified character sequence to this buffer. If *value* is `Null` the the string "null" is appended to the buffer.

Parameters:

value - the CharSequence to append.
start - the index to start appending from.
end - the index to append to.

Returns:

a reference to this modified **CharBuffer** (p. 817)

Exceptions:

BufferOverflowException (p. 658) if there is no more space
ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.
IndexOutOfBoundsException if start > end, or > length of sequence.

Implements **decaf::lang::Appendable** (p. 484).

6.133.3.3 CharBuffer& decaf::nio::CharBuffer::append (const lang::CharSequence * *value*) throw (BufferOverflowException, ReadOnlyBufferException) [virtual]

Appends the specified character sequence to this buffer. If value is Null the the string "null" is appended to the buffer.

Parameters:

value - the CharSequence to append.

Returns:

a reference to this modified **CharBuffer** (p. 817)

Exceptions:

BufferOverflowException (p. 658) if there is no more space
ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

Implements **decaf::lang::Appendable** (p. 485).

6.133.3.4 CharBuffer& decaf::nio::CharBuffer::append (char *value*) throw (BufferOverflowException, ReadOnlyBufferException) [virtual]

Appends the specified character to this buffer.

Parameters:

value - the char to append.

Returns:

a reference to this modified **CharBuffer** (p. 817)

Exceptions:

BufferOverflowException (p. 658) if there is no more space

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

Implements **decaf::lang::Appendable** (p. 485).

6.133.3.5 `virtual char* decaf::nio::CharBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]`

Returns the character array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this **Buffer** (p. 627)

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 812).

6.133.3.6 `virtual std::size_t decaf::nio::CharBuffer::arrayOffset () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 812).

6.133.3.7 `virtual CharBuffer* decaf::nio::CharBuffer::asReadOnlyBuffer () const [pure virtual]`

Creates a new, read-only char buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new

buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the duplicate method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only char buffer which the caller then owns.

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 812).

6.133.3.8 char decaf::nio::CharBuffer::charAt (std::size_t *index*) const throw (decaf::lang::exceptions::IndexOutOfBoundsException) [virtual]

Reads the character at the given index relative to the current position.

Parameters:

index - The index of the character to be read relative to position

Returns:

The character at index **position()** (p. 631) + index

Exceptions:

IndexOutOfBoundsException

Implements **decaf::lang::CharSequence** (p. 833).

6.133.3.9 virtual CharBuffer& decaf::nio::CharBuffer::compact () throw (ReadOnlyBufferException) [pure virtual]

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \mathbf{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index **limit()** (p. 631) - 1 is copied to index $n = \mathbf{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **CharBuffer** (p. 817)

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 813).

6.133.3.10 `virtual int decaf::nio::CharBuffer::compareTo (const CharBuffer & value) const` [virtual]

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

6.133.3.11 `virtual CharBuffer* decaf::nio::CharBuffer::duplicate ()` [pure virtual]

Creates a new char buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new char **Buffer** (p. 627) which the caller owns.

Implemented in `decaf::internal::nio::CharArrayBuffer` (p. 813).

6.133.3.12 `virtual bool decaf::nio::CharBuffer::equals (const CharBuffer & value) const` [virtual]

Returns:

true if this value is considered equal to the passed value.

6.133.3.13 `CharBuffer& decaf::nio::CharBuffer::get (char * buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)`

Relative bulk get method. This method transfers chars from this buffer into the given destination array. If there are fewer chars remaining in the buffer than are required to satisfy the request, that is, if `length > remaining()` (p. 632), then no bytes are transferred and a **BufferUnderflowException** (p. 661) is thrown.

Otherwise, this method copies `length` chars from this buffer into the given array, starting at the current position of this buffer and at the given offset in the array. The position of this buffer is then incremented by `length`.

Parameters:

buffer - pointer to an allocated buffer to fill

offset - position in the buffer to start filling

length - amount of data to put in the passed buffer

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* chars remaining in this buffer

NullPointerException if the passed buffer is null.

6.133.3.14 CharBuffer& decaf::nio::CharBuffer::get (std::vector< char > *buffer*) throw (BufferUnderflowException)

Relative bulk get method. This method transfers chars from this buffer into the given destination vector. An invocation of this method of the form `src.get(a)` behaves in exactly the same way as the invocation. The vector must be sized to the amount of data that is to be read, that is to say, the caller should call `buffer.resize(N)` before calling this get method.

Returns:

a reference to this **CharBuffer** (p. 817)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* chars remaining in this buffer

6.133.3.15 virtual char decaf::nio::CharBuffer::get (std::size_t *index*) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]

Absolute get method. Reads the char at the given index.

Parameters:

index - the index in the **Buffer** (p. 627) where the char is to be read

Returns:

the char that is located at the given index

Exceptions:

IndexOutOfBoundsException - If *index* is not smaller than the buffer's limit

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 813).

6.133.3.16 virtual char decaf::nio::CharBuffer::get () throw (BufferUnderflowException) [pure virtual]

Relative get method. Reads the character at this buffer's current position, and then increments the position.

Returns:

the char at the current position

Exceptions:

BufferUnderflowException (p. 661) if there no more data to return

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 814).

6.133.3.17 virtual bool decaf::nio::CharBuffer::hasArray () const [pure virtual]

Tells whether or not this buffer is backed by an accessible char array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 814).

6.133.3.18 std::size_t decaf::nio::CharBuffer::length () const [inline, virtual]

Returns the length of this character buffer.

Returns:

the length of this buffer from the position to the limit.

Implements **decaf::lang::CharSequence** (p. 834).

6.133.3.19 virtual bool decaf::nio::CharBuffer::operator< (const CharBuffer & value) const [virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.133.3.20 virtual bool decaf::nio::CharBuffer::operator== (const CharBuffer & value) const [virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.133.3.21 CharBuffer& decaf::nio::CharBuffer::put (const std::string & *src*) throw (BufferOverflowException, ReadOnlyBufferException)

Relative bulk put method (optional operation). This method transfers the entire content of the given source string into this buffer. An invocation of this method of the form `dst.put(s)` behaves in exactly the same way as the invocation

Parameters:

src - the string to copy from

Returns:

a reference to this **CharBuffer** (p. 817)

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.133.3.22 CharBuffer& decaf::nio::CharBuffer::put (const std::string & *src*, std::size_t *start*, std::size_t *end*) throw (BufferOverflowException, ReadOnlyBufferException, decaf::lang::exceptions::IndexOutOfBoundsException)

Relative bulk put method (optional operation). This method transfers characters from the given string into this buffer. If there are more characters to be copied from the string than remain in this buffer, that is, if `end - start > remaining()` (p. 632), then no characters are transferred and a **BufferOverflowException** (p. 658) is thrown.

Returns:

a reference to this buffer

Otherwise, this method copies `n = end - start` characters from the given string into this buffer, starting at the given start index and at the current position of this buffer. The position of this buffer is then incremented by `n`.

Parameters:

src - the string to copy from

start - position in *src* to start from

end - the position in *src* to stop at

Returns:

a reference to this **CharBuffer** (p. 817)

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.133.3.23 `virtual CharBuffer& decaf::nio::CharBuffer::put (std::size_t index,
char value) throw (lang::exceptions::IndexOutOfBoundsException,
ReadOnlyBufferException)` [pure virtual]

Writes the given char into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the char to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::CharArrayBuffer` (p. 814).

6.133.3.24 `virtual CharBuffer& decaf::nio::CharBuffer::put (char value) throw (`
 `BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes the given char into this buffer at the current position, and then increments the position.

Parameters:

value - the char value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::CharArrayBuffer` (p. 815).

6.133.3.25 `CharBuffer& decaf::nio::CharBuffer::put (std::vector< char > & buffer)`
 `throw (BufferOverflowException, ReadOnlyBufferException)`

This method transfers the entire content of the given source char array into this buffer. This is the same as calling `put(&buffer[0], 0, buffer.size()`

Parameters:

buffer - The buffer whose contents are copied to this **CharBuffer** (p. 817)

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.133.3.26 CharBuffer& decaf::nio::CharBuffer::put (const char * *buffer*, std::size_t *offset*, std::size_t *length*) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)

This method transfers chars into this buffer from the given source array. If there are more chars to be copied from the array than remain in this buffer, that is, if `length > remaining()` (p. 632), then no chars are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `length` bytes from the given array into this buffer, starting at the given offset in the array and at the current position of this buffer. The position of this buffer is then incremented by `length`.

Parameters:

buffer- The array from which chars are to be read

offset- The offset within the array of the first char to be read;

length - The number of chars to be read from the given array

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

NullPointerException if the passed buffer is null.

6.133.3.27 CharBuffer& decaf::nio::CharBuffer::put (CharBuffer & *src*) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)

This method transfers the chars remaining in the given source buffer into this buffer. If there are more chars remaining in the source buffer than in this buffer, that is, if `src.remaining() > remaining()` (p. 632), then no chars are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `n = src.remaining()` chars from the given buffer into this buffer, starting at each buffer's current position. The positions of both buffers are then incremented by `n`.

Parameters:

src - the buffer to take chars from an place in this one.

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer for the remaining chars in the source buffer

IllegalArgumentException - If the source buffer is this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.133.3.28 `virtual std::size_t decaf::nio::CharBuffer::read (CharBuffer *
target) throw (decaf::lang::exceptions::NullPointerException,
decaf::lang::exceptions::IllegalArgumentException,
ReadOnlyBufferException) [virtual]`

Attempts to read characters into the specified character buffer. The buffer is used as a repository of characters as-is: the only changes made are the results of a put operation. No flipping or rewinding of the buffer is performed.

Parameters:

target - the buffer to read characters into

Returns:

The number of characters added to the buffer, or string::npos if this source of characters is at its end

Exceptions:

NullPointerException - If target is Null

IllegalArgumentException - If target is this

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.133.3.29 `virtual CharBuffer* decaf::nio::CharBuffer::slice () const [pure
virtual]`

Creates a new **CharBuffer** (p. 817) whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **CharBuffer** (p. 817) which the caller owns.

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 815).

6.133.3.30 `virtual lang::CharSequence* decaf::nio::CharBuffer::subSequence (std::size_t start, std::size_t end) const throw (decaf::lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Creates a new character buffer that represents the specified subsequence of this buffer, relative to the current position. The new buffer will share this buffer's content; that is, if the content of this buffer is mutable then modifications to one buffer will cause the other to be modified. The new buffer's capacity will be that of this buffer, its position will be **position()** (p. 631) + start, and its limit will be **position()** (p. 631) + end. The new **Buffer** (p. 627) will be read-only if, and only if, this buffer is read-only.

Parameters:

- start* - The index, relative to the current position, of the first character in the subsequence; must be non-negative and no larger than **remaining()** (p. 632)
- end* - The index, relative to the current position, of the character following the last character in the subsequence; must be no smaller than start and no larger than **remaining()** (p. 632)

Returns:

The new character buffer, caller owns

Exceptions:

IndexOutOfBoundsException - If the preconditions on start and end fail

Implements **decaf::lang::CharSequence** (p. 834).

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 816).

6.133.3.31 `virtual std::string decaf::nio::CharBuffer::toString () const [virtual]`

Returns:

a std::string describing this object

Implements **decaf::lang::CharSequence** (p. 834).

6.133.3.32 `static CharBuffer* decaf::nio::CharBuffer::wrap (std::vector< char > & buffer) [static]`

Wraps the passed STL char Vector in a **CharBuffer** (p. 817). The new buffer will be backed by the given char array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be **buffer.size()**, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

- buffer* - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling **vector.resize(N)**.

Returns:

a new **CharBuffer** (p. 817) that is backed by buffer, caller owns.

6.133.3.33 `static CharBuffer* decaf::nio::CharBuffer::wrap (char *
array, std::size_t offset, std::size_t length) throw (
lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new **CharBuffer** (p. 817). The new buffer will be backed by the given char array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be array.length, its position will be offset, its limit will be offset + length, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

- array* - The array that will back the new buffer
- offset* - The offset of the subarray to be used
- length* - The length of the subarray to be used

Returns:

- a new **CharBuffer** (p. 817) that is backed by buffer, caller owns.

The documentation for this class was generated from the following file:

- src/main/decaf/nio/**CharBuffer.h**

6.134 decaf::lang::CharSequence Class Reference

A **CharSequence** (p. 833) is a readable sequence of char values.

#include <src/main/decaf/lang/CharSequence.h> Inheritance diagram for decaf::lang::CharSequence:

Public Member Functions

- virtual **~CharSequence** ()
- virtual std::size_t **length** () const =0
- virtual char **charAt** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Returns the Char at the specified index so long as the index is not greater than the length of the sequence.
- virtual **CharSequence** * **subSequence** (std::size_t start, std::size_t end) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
*Returns a new **CharSequence** (p. 833) that is a subsequence of this sequence.*
- virtual std::string **toString** () const =0

6.134.1 Detailed Description

A **CharSequence** (p. 833) is a readable sequence of char values. This interface provides uniform, read-only access to many different kinds of char sequences.

This interface does not define that a **CharSequence** (p. 833) should implement comparable, it is therefore up to the dervied classes that implement this interface to define equality, which implies that comparison of two **CharSequences** does not have a contract on equality.

6.134.2 Constructor & Destructor Documentation

6.134.2.1 virtual decaf::lang::CharSequence::~~CharSequence () [inline, virtual]

6.134.3 Member Function Documentation

6.134.3.1 virtual char decaf::lang::CharSequence::charAt (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]

Returns the Char at the specified index so long as the index is not greater than the length of the sequence.

Parameters:

index - position to return the char at.

Returns:

the char at the given position

Exceptions:

IndexOutOfBoundsException if index is > than **length()** (p. 834)

Implemented in **decaf::nio::CharBuffer** (p. 823).

6.134.3.2 `virtual std::size_t decaf::lang::CharSequence::length () const [pure virtual]`

Returns:

the length of the underlying character sequence.

Implemented in **decaf::nio::CharBuffer** (p. 826).

6.134.3.3 `virtual CharSequence* decaf::lang::CharSequence::subSequence (std::size_t start, std::size_t end) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Returns a new **CharSequence** (p. 833) that is a subsequence of this sequence. The subsequence starts with the char value at the specified index and ends with the char value at index end - 1. The length (in chars) of the returned sequence is end - start, so if start == end then an empty sequence is returned.

Parameters:

start - the start index, inclusive

end - the end index, exclusive

Returns:

a new **CharSequence** (p. 833)

Exceptions:

IndexOutOfBoundsException if start or end > **length()** (p. 834)

Implemented in **decaf::internal::nio::CharArrayBuffer** (p. 816), and **decaf::nio::CharBuffer** (p. 831).

6.134.3.4 `virtual std::string decaf::lang::CharSequence::toString () const [pure virtual]`

Returns:

the string representation of this **CharSequence** (p. 833)

Implemented in **decaf::nio::CharBuffer** (p. 831).

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/CharSequence.h`

6.135 decaf::lang::exceptions::ClassCastException Class Reference

#include <src/main/decaf/lang/exceptions/ClassCastException.h> Inheritance diagram for decaf::lang::exceptions::ClassCastException:

Public Member Functions

- **ClassCastException** () throw ()
Default Constructor.
- **ClassCastException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **ClassCastException** (const **ClassCastException** &ex) throw ()
Copy Constructor.
- **ClassCastException** (const std::exception *cause) throw ()
Constructor.
- **ClassCastException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **ClassCastException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **ClassCastException** * clone () const
Clones this exception.
- virtual ~**ClassCastException** () throw ()

6.135.1 Constructor & Destructor Documentation

6.135.1.1 decaf::lang::exceptions::ClassCastException::ClassCastException () throw () [inline]

Default Constructor.

6.135.1.2 decaf::lang::exceptions::ClassCastException::ClassCastException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.135.1.3 decaf::lang::exceptions::ClassCastException::ClassCastException (const ClassCastException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.135.1.4 decaf::lang::exceptions::ClassCastException::ClassCastException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.135.1.5 decaf::lang::exceptions::ClassCastException::ClassCastException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.135.1.6 decaf::lang::exceptions::ClassCastException::ClassCastException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.135.1.7 virtual decaf::lang::exceptions::ClassCastException::~~ClassCastException
() throw () [inline, virtual]

6.135.2 Member Function Documentation

6.135.2.1 virtual ClassCastException* de-
caf::lang::exceptions::ClassCastException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**ClassCastException.h**

6.136 cms::Closeable Class Reference

Interface for a class that implements the close method.

#include <src/main/cms/Closeable.h> Inheritance diagram for cms::Closeable:

Public Member Functions

- virtual `~Closeable()`
- virtual void `close()` throw (CMSEException)
Closes this object and deallocates the appropriate resources.

6.136.1 Detailed Description

Interface for a class that implements the close method. A class that implements this interface should release all resources upon the close call and should throw an exception from any methods that require those resources after they have been closed.

Since:

1.0

6.136.2 Constructor & Destructor Documentation

6.136.2.1 virtual cms::Closeable::~~Closeable() [inline, virtual]

6.136.3 Member Function Documentation

6.136.3.1 virtual void cms::Closeable::close() throw (CMSEException) [pure virtual]

Closes this object and deallocates the appropriate resources. The object is generally no longer usable after calling close.

Exceptions:

CMSEException (p. 850) - If an error occurs while the resource is being closed.

Implemented in `activemq::cmsutil::CachedConsumer` (p. 774), `activemq::cmsutil::CachedProducer` (p. 778), `activemq::cmsutil::PooledSession` (p. 2021), `activemq::commands::ActiveMQTempDestination` (p. 400), `activemq::core::ActiveMQConnection` (p. 193), `activemq::core::ActiveMQConsumer` (p. 222), `activemq::core::ActiveMQProducer` (p. 327), `activemq::core::ActiveMQSession` (p. 356), `activemq::transport::correlator::ResponseCorrelator` (p. 2238), `activemq::transport::failover::FailoverTransport` (p. 1299), `activemq::transport::IOTransport` (p. 1482), `activemq::transport::mock::MockTransport` (p. 1912), `activemq::transport::tcp::TcpTransport` (p. 2533), `activemq::transport::TransportFilter` (p. 2618), `activemq::wireformat::openwire::OpenWireFormatNegotiator` (p. 1985), `cms::Connection` (p. 942), and `cms::Session` (p. 2273).

The documentation for this class was generated from the following file:

- `src/main/cms/Closeable.h`

6.137 decaf::io::Closeable Class Reference

Interface for a class that implements the close method.

#include <src/main/decaf/io/Closeable.h> Inheritance diagram for decaf::io::Closeable:

Public Member Functions

- virtual `~Closeable()`
- virtual void `close()` throw (lang::Exception)
Closes this object and deallocates the appropriate resources.

6.137.1 Detailed Description

Interface for a class that implements the close method.

6.137.2 Constructor & Destructor Documentation

6.137.2.1 virtual decaf::io::Closeable::~~Closeable() [inline, virtual]

6.137.3 Member Function Documentation

6.137.3.1 virtual void decaf::io::Closeable::close() throw (lang::Exception) [pure virtual]

Closes this object and deallocates the appropriate resources. The object is generally no longer usable after calling close.

Exceptions:

CMSEException

Implemented in `decaf::internal::io::StandardErrorOutputStream` (p. 2400), `decaf::internal::io::StandardInputStream` (p. 2404), `decaf::internal::io::StandardOutputStream` (p. 2410), `decaf::io::BlockingByteArrayInputStream` (p. 568), `decaf::io::BufferedInputStream` (p. 635), `decaf::io::BufferedOutputStream` (p. 639), `decaf::io::ByteArrayInputStream` (p. 718), `decaf::io::ByteArrayOutputStream` (p. 724), `decaf::io::FilterInputStream` (p. 1317), `decaf::io::FilterOutputStream` (p. 1324), `decaf::net::BufferedSocket` (p. 642), `decaf::net::SocketInputStream` (p. 2385), `decaf::net::SocketOutputStream` (p. 2391), `decaf::net::TcpSocket` (p. 2526), and `decaf::util::logging::StreamHandler` (p. 2473).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/Closeable.h`

6.138 activemq::transport::failover::CloseTransportsTask Class Reference

#include <src/main/activemq/transport/failover/CloseTransportsTask.h> Inheritance diagram for activemq::transport::failover::CloseTransportsTask:

Public Member Functions

- **CloseTransportsTask** ()
- virtual **~CloseTransportsTask** ()
- void **add** (const **Pointer**< **Transport** > &transport)
*Add a new **Transport** (p. 2608) to close.*
- virtual bool **isPending** () const
This Task is pending if there are transports in the Queue that need to be closed.
- virtual bool **iterate** ()
Return true until all transports have been closed and removed from the queue.

6.138.1 Constructor & Destructor Documentation

6.138.1.1 **activemq::transport::failover::CloseTransportsTask::CloseTransportsTask** () [inline]

6.138.1.2 **virtual**
activemq::transport::failover::CloseTransportsTask::~~CloseTransportsTask () [inline, virtual]

6.138.2 Member Function Documentation

6.138.2.1 **void** **activemq::transport::failover::CloseTransportsTask::add** (const **Pointer**< **Transport** > & *transport*)

Add a new **Transport** (p. 2608) to close.

6.138.2.2 **virtual bool** **activemq::transport::failover::CloseTransportsTask::isPending** () const [virtual]

This Task is pending if there are transports in the Queue that need to be closed.

Returns:

true if there is a **transport** (p. 67) in the queue that needs closed.

Implements **activemq::threads::CompositeTask** (p. 906).

6.138.2.3 `virtual bool activemq::transport::failover::CloseTransportsTask::iterate ()`
[virtual]

Return true until all transports have been closed and removed from the queue.

Implements **activemq::threads::Task** (p. 2520).

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/failover/CloseTransportsTask.h`

6.139 activemq::cmsutil::CmsAccessor Class Reference

Base class for **activemq.cmsutil.CmsTemplate** (p. 858) and other CMS-accessing gateway helpers, defining common properties such as the CMS **cms.ConnectionFactory** (p. 978) to operate on.

#include <src/main/activemq/cmsutil/CmsAccessor.h> Inheritance diagram for activemq::cmsutil::CmsAccessor:

Public Member Functions

- **CmsAccessor** ()
- virtual **~CmsAccessor** ()
- virtual **ResourceLifecycleManager** * **getResourceLifecycleManager** ()
- virtual const **ResourceLifecycleManager** * **getResourceLifecycleManager** () const
- virtual void **setConnectionFactory** (cms::ConnectionFactory *connectionFactory)
Set the ConnectionFactory to use for obtaining CMS Connections.
- virtual const cms::ConnectionFactory * **getConnectionFactory** () const
Return the ConnectionFactory that this accessor uses for obtaining CMS Connections.
- virtual cms::ConnectionFactory * **getConnectionFactory** ()
Return the ConnectionFactory that this accessor uses for obtaining CMS Connections.
- virtual void **setSessionAcknowledgeMode** (cms::Session::AcknowledgeMode session-AcknowledgeMode)
Set the CMS acknowledgment mode that is used when creating a CMS Session to send a message.
- virtual cms::Session::AcknowledgeMode **getSessionAcknowledgeMode** () const
Return the acknowledgment mode for CMS sessions.

Protected Member Functions

- virtual void **init** () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)
Initializes this object and prepares it for use.
- virtual void **destroy** () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)
Shuts down this object and destroys any allocated resources.
- virtual cms::Connection * **createConnection** () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)
Create a CMS Connection via this template's ConnectionFactory.
- virtual cms::Session * **createSession** (cms::Connection *con) throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)

Create a CMS Session for the given Connection.

- virtual void **checkConnectionFactory** () throw (decaf::lang::exceptions::IllegalStateException)

Verifies that the connection factory is valid.

6.139.1 Detailed Description

Base class for **activemq.cmsutil.CmsTemplate** (p. 858) and other CMS-accessing gateway helpers, defining common properties such as the CMS **cms.ConnectionFactory** (p. 978) to operate on. The subclass **activemq.cmsutil.CmsDestinationAccessor** (p. 847) adds further, destination-related properties.

Not intended to be used directly.

See also:

activemq.cmsutil.CmsDestinationAccessor (p. 847)
activemq.cmsutil.CmsTemplate (p. 858)

6.139.2 Constructor & Destructor Documentation

6.139.2.1 **activemq::cmsutil::CmsAccessor::CmsAccessor** ()

6.139.2.2 **virtual activemq::cmsutil::CmsAccessor::~~CmsAccessor** () [virtual]

6.139.3 Member Function Documentation

6.139.3.1 **virtual void activemq::cmsutil::CmsAccessor::checkConnectionFactory** () throw (decaf::lang::exceptions::IllegalStateException) [protected, virtual]

Verifies that the connection factory is valid.

6.139.3.2 **virtual cms::Connection* activemq::cmsutil::CmsAccessor::createConnection** () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException) [protected, virtual]

Create a CMS Connection via this template's ConnectionFactory.

Returns:

the new CMS Connection

Exceptions:

cms::CMSException (p. 850) if thrown by CMS API methods

6.139.3.3 `virtual cms::Session* activemq::cmsutil::CmsAccessor::createSession (cms::Connection * con) throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException) [protected, virtual]`

Create a CMS Session for the given Connection.

Parameters:

con the CMS Connection to create a Session for

Returns:

the new CMS Session

Exceptions:

cms::CMSException (p. 850) if thrown by CMS API methods

6.139.3.4 `virtual void activemq::cmsutil::CmsAccessor::destroy () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException) [inline, protected, virtual]`

Shuts down this object and destroys any allocated resources.

Reimplemented in `activemq::cmsutil::CmsDestinationAccessor` (p.848), and `activemq::cmsutil::CmsTemplate` (p.861).

6.139.3.5 `virtual cms::ConnectionFactory* activemq::cmsutil::CmsAccessor::getConnectionFactory () [inline, virtual]`

Return the ConnectionFactory that this accessor uses for obtaining CMS Connections.

6.139.3.6 `virtual const cms::ConnectionFactory* activemq::cmsutil::CmsAccessor::getConnectionFactory () const [inline, virtual]`

Return the ConnectionFactory that this accessor uses for obtaining CMS Connections.

6.139.3.7 `virtual const ResourceLifecycleManager* activemq::cmsutil::CmsAccessor::getResourceLifecycleManager () const [inline, virtual]`

6.139.3.8 `virtual ResourceLifecycleManager* activemq::cmsutil::CmsAccessor::getResourceLifecycleManager () [inline, virtual]`

6.139.3.9 `virtual cms::Session::AcknowledgeMode activemq::cmsutil::CmsAccessor::getSessionAcknowledgeMode () const [inline, virtual]`

Return the acknowledgment mode for CMS sessions.

Returns:

the acknowledgment mode applied by this accessor

6.139.3.10 `virtual void activemq::cmsutil::CmsAccessor::init () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException) [inline, protected, virtual]`

Initializes this object and prepares it for use. This should be called before any other methods are called. This version does nothing.

Reimplemented in `activemq::cmsutil::CmsDestinationAccessor` (p. 848), and `activemq::cmsutil::CmsTemplate` (p. 864).

6.139.3.11 `virtual void activemq::cmsutil::CmsAccessor::setConnectionFactory (cms::ConnectionFactory * connectionFactory) [inline, virtual]`

Set the ConnectionFactory to use for obtaining CMS Connections.

6.139.3.12 `virtual void activemq::cmsutil::CmsAccessor::setSessionAcknowledgeMode (cms::Session::AcknowledgeMode sessionAcknowledgeMode) [inline, virtual]`

Set the CMS acknowledgment mode that is used when creating a CMS Session to send a message. Default is AUTO_ACKNOWLEDGE.

Parameters:

sessionAcknowledgeMode the acknowledgment mode

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/CmsAccessor.h`

6.140 activemq::cmsutil::CmsDestinationAccessor Class Reference

Extends the `CmsAccessor` (p. 843) to add support for resolving destination names.

#include <src/main/activemq/cmsutil/CmsDestinationAccessor.h> Inheritance diagram for `activemq::cmsutil::CmsDestinationAccessor`:

Public Member Functions

- `CmsDestinationAccessor ()`
- `virtual ~CmsDestinationAccessor ()`
- `virtual bool isPubSubDomain () const`
- `virtual void setPubSubDomain (bool pubSubDomain)`
- `virtual DestinationResolver * getDestinationResolver ()`
- `virtual const DestinationResolver * getDestinationResolver () const`
- `virtual void setDestinationResolver (DestinationResolver *destRes)`

Protected Member Functions

- `virtual void init () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)`
Initializes the destination resolver.
- `virtual void destroy () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)`
Calls `destroy()` (p. 848) on the destination resolver.
- `virtual cms::Destination * resolveDestinationName (cms::Session *session, const std::string &destName) throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)`
Resolves the destination via the `DestinationResolver` (p. 1211).
- `virtual void checkDestinationResolver () throw (decaf::lang::exceptions::IllegalStateException)`
Verifies that the destination resolver is valid.

6.140.1 Detailed Description

Extends the `CmsAccessor` (p. 843) to add support for resolving destination names. Not intended to be used directly.

See also:

`CmsTemplate` (p. 858)
`CmsAccessor` (p. 843)

6.140.2 Constructor & Destructor Documentation

6.140.2.1 `activemq::cmsutil::CmsDestinationAccessor::CmsDestinationAccessor ()`

6.140.2.2 `virtual
activemq::cmsutil::CmsDestinationAccessor::~~CmsDestinationAccessor ()
[virtual]`

6.140.3 Member Function Documentation

6.140.3.1 `virtual void ac-
tivemq::cmsutil::CmsDestinationAccessor::checkDestinationResolver ()
throw (decaf::lang::exceptions::IllegalStateException) [protected,
virtual]`

Verifies that the destination resolver is valid.

6.140.3.2 `virtual void activemq::cmsutil::CmsDestinationAccessor::destroy () throw
(cms::CMSException, decaf::lang::exceptions::IllegalStateException)
[protected, virtual]`

Calls `destroy()` (p. 848) on the destination resolver.

Reimplemented from `activemq::cmsutil::CmsAccessor` (p. 845).

Reimplemented in `activemq::cmsutil::CmsTemplate` (p. 861).

6.140.3.3 `virtual const DestinationResolver* ac-
tivemq::cmsutil::CmsDestinationAccessor::getDestinationResolver ()
const [inline, virtual]`

6.140.3.4 `virtual DestinationResolver* ac-
tivemq::cmsutil::CmsDestinationAccessor::getDestinationResolver ()
[inline, virtual]`

6.140.3.5 `virtual void activemq::cmsutil::CmsDestinationAccessor::init () throw
(cms::CMSException, decaf::lang::exceptions::IllegalStateException)
[protected, virtual]`

Initializes the destination resolver.

Reimplemented from `activemq::cmsutil::CmsAccessor` (p. 846).

Reimplemented in `activemq::cmsutil::CmsTemplate` (p. 864).

6.140.3.6 virtual bool activemq::cmsutil::CmsDestinationAccessor::isPubSubDomain () const [inline, virtual]

6.140.3.7 virtual cms::Destination* activemq::cmsutil::CmsDestinationAccessor::resolveDestinationName (cms::Session * *session*, const std::string & *destName*) throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException) [protected, virtual]

Resolves the destination via the DestinationResolver (p. 1211).

Parameters:

session the session

destName the name of the destination.

Returns:

the destination

Exceptions:

cms::CMSException (p. 850) if resolution failed.

decaf::lang::exceptions::IllegalStateException (p. 1400) if the destination resolver property is NULL.

6.140.3.8 virtual void activemq::cmsutil::CmsDestinationAccessor::setDestinationResolver (DestinationResolver * *destRes*) [inline, virtual]

6.140.3.9 virtual void activemq::cmsutil::CmsDestinationAccessor::setPubSubDomain (bool *pubSubDomain*) [inline, virtual]

Reimplemented in **activemq::cmsutil::CmsTemplate** (p. 869).

Referenced by **activemq::cmsutil::CmsTemplate::setPubSubDomain()**.

The documentation for this class was generated from the following file:

- **src/main/activemq/cmsutil/CmsDestinationAccessor.h**

6.141 cms::CMSException Class Reference

CMS API Exception that is the base for all exceptions thrown from CMS classes.

#include <src/main/cms/CMSException.h> Inheritance diagram for cms::CMSException:

Public Member Functions

- **CMSException** () throw ()
- **CMSException** (const **CMSException** &ex) throw ()
- **CMSException** (const std::string &message, const std::exception *cause) throw ()
- **CMSException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**CMSException** () throw ()
- virtual std::string **getMessage** () const
Gets the cause of the error.
- virtual const std::exception * **getCause** () const
Gets the exception that caused this one to be thrown, this allows for chaining of exceptions in the case of a method that throws only a particular exception but wishes to allow for the real causal exception to be passed only in case the caller knows about that type of exception and wishes to respond to it.
- virtual std::vector< std::pair< std::string, int > > **getStackTrace** () const
Provides the stack trace for every point where this exception was caught, marked, and rethrown.
- virtual void **setMark** (const char *file, const int lineNumber)
Adds a file/line number to the stack trace.
- virtual void **printStackTrace** () const
Prints the stack trace to std::err.
- virtual void **printStackTrace** (std::ostream &stream) const
Prints the stack trace to the given output stream.
- virtual std::string **getStackTraceString** () const
Gets the stack trace as one contiguous string.

6.141.1 Detailed Description

CMS API Exception that is the base for all exceptions thrown from CMS classes. This class represents an error that has occurred in CMS, providers can wrap provider specific exceptions in this class by setting the cause to an instance of a provider specific exception provided it can be cast to an std::exception.

Since the contained cause exception is of type std::exception and the C++ exception class has no clone or copy method defined the contained exception can only be owned by one instance of an **CMSException** (p. 850). To that end the class hands off the exception to each successive copy so care must be taken when handling **CMSException** (p. 850) instances.

Since:

1.0

6.141.2 Constructor & Destructor Documentation

6.141.2.1 cms::CMSException::CMSException () throw ()

6.141.2.2 cms::CMSException::CMSException (const CMSException & *ex*) throw ()

6.141.2.3 cms::CMSException::CMSException (const std::string & *message*, const std::exception * *cause*) throw ()

6.141.2.4 cms::CMSException::CMSException (const std::string & *message*, const std::exception * *cause*, const std::vector< std::pair< std::string, int > > & *stackTrace*) throw ()

6.141.2.5 virtual cms::CMSException::~~CMSException () throw () [virtual]

6.141.3 Member Function Documentation

6.141.3.1 virtual const std::exception* cms::CMSException::getCause () const [virtual]

Gets the exception that caused this one to be thrown, this allows for chaining of exceptions in the case of a method that throws only a particular exception but wishes to allow for the real causal exception to be passed only in case the caller knows about that type of exception and wishes to respond to it.

Returns:

a const pointer reference to the causal exception, if there was no cause associated with this exception then NULL is returned.

6.141.3.2 virtual std::string cms::CMSException::getMessage () const [virtual]

Gets the cause of the error.

Returns:

string errors message

6.141.3.3 virtual std::vector< std::pair< std::string, int> > cms::CMSException::getStackTrace () const [virtual]

Provides the stack trace for every point where this exception was caught, marked, and rethrown.

Returns:

vector containing stack trace strings

6.141.3.4 `virtual std::string cms::CMSException::getStackTraceString () const`
[virtual]

Gets the stack trace as one contiguous string.

Returns:

string with formatted stack trace data

6.141.3.5 `virtual void cms::CMSException::printStackTrace (std::ostream & stream) const` [virtual]

Prints the stack trace to the given output stream.

Parameters:

stream the target output stream.

6.141.3.6 `virtual void cms::CMSException::printStackTrace () const` [virtual]

Prints the stack trace to std::err.

6.141.3.7 `virtual void cms::CMSException::setMark (const char * file, const int lineNumber)` [virtual]

Adds a file/line number to the stack trace.

Parameters:

file The name of the file calling this method (use `__FILE__`).

lineNumber The line number in the calling file (use `__LINE__`).

The documentation for this class was generated from the following file:

- `src/main/cms/CMSException.h`

6.142 cms::CMSProperties Class Reference

Interface for a Java-like properties object.

#include <src/main/cms/CMSProperties.h> Inheritance diagram for cms::CMSProperties:

Public Member Functions

- virtual **~CMSProperties** ()
- virtual bool **isEmpty** () const =0
Returns true if the properties object is empty.
- virtual const char * **getProperty** (const std::string &name) const =0
Looks up the value for the given property.
- virtual std::string **getProperty** (const std::string &name, const std::string &defaultValue) const =0
Looks up the value for the given property.
- virtual void **setProperty** (const std::string &name, const std::string &value)=0
Sets the value for a given property.
- virtual bool **hasProperty** (const std::string &name) const =0
Check to see if the Property exists in the set.
- virtual void **remove** (const std::string &name)=0
Removes the property with the given name.
- virtual std::vector< std::pair< std::string, std::string > > **toArray** () const =0
Method that serializes the contents of the property map to an array.
- virtual void **copy** (const **CMSProperties** *source)=0
Copies the contents of the given properties object to this one.
- virtual **CMSProperties** * **clone** () const =0
Clones this object.
- virtual void **clear** ()=0
Clears all properties from the map.
- virtual std::string **toString** () const =0
Formats the contents of the Properties Object into a string that can be logged, etc.

6.142.1 Detailed Description

Interface for a Java-like properties object. This is essentially a map of key-value string pairs.

Since:

1.1

6.142.2 Constructor & Destructor Documentation

6.142.2.1 `virtual cms::CMSProperties::~~CMSProperties () [inline, virtual]`

6.142.3 Member Function Documentation

6.142.3.1 `virtual void cms::CMSProperties::clear () [pure virtual]`

Clears all properties from the map.

Implemented in `activemq::util::ActiveMQProperties` (p. 333).

6.142.3.2 `virtual CMSProperties* cms::CMSProperties::clone () const [pure virtual]`

Clones this object.

Returns:

a replica of this object.

Implemented in `activemq::util::ActiveMQProperties` (p. 333).

6.142.3.3 `virtual void cms::CMSProperties::copy (const CMSProperties * source) [pure virtual]`

Copies the contents of the given properties object to this one.

Parameters:

source The source properties object.

6.142.3.4 `virtual std::string cms::CMSProperties::getProperty (const std::string & name, const std::string & defaultValue) const [pure virtual]`

Looks up the value for the given property.

Parameters:

name the name of the property to be looked up.

defaultValue The value to be returned if the given property does not exist.

Returns:

The value of the property specified by *name*, if it exists, otherwise the *defaultValue*.

Implemented in `activemq::util::ActiveMQProperties` (p. 334).

6.142.3.5 `virtual const char* cms::CMSProperties::getProperty (const std::string & name) const` [pure virtual]

Looks up the value for the given property.

Parameters:

name The name of the property to be looked up.

Returns:

the value of the property with the given name, if it exists. If it does not exist, returns NULL.

Implemented in `activemq::util::ActiveMQProperties` (p. 334).

6.142.3.6 `virtual bool cms::CMSProperties::hasProperty (const std::string & name) const` [pure virtual]

Check to see if the Property exists in the set.

Parameters:

name the name of the property to check

Returns:

true if property exists, false otherwise.

Implemented in `activemq::util::ActiveMQProperties` (p. 334).

6.142.3.7 `virtual bool cms::CMSProperties::isEmpty () const` [pure virtual]

Returns true if the properties object is empty.

Returns:

true if empty

Implemented in `activemq::util::ActiveMQProperties` (p. 335).

6.142.3.8 `virtual void cms::CMSProperties::remove (const std::string & name)` [pure virtual]

Removes the property with the given name.

Parameters:

name the name of the property to be removed.s

Implemented in `activemq::util::ActiveMQProperties` (p. 335).

6.142.3.9 `virtual void cms::CMSProperties::setProperty (const std::string & name,
const std::string & value) [pure virtual]`

Sets the value for a given property. If the property already exists, overwrites the value.

Parameters:

name The name of the value to be written.

value The value to be written.

Implemented in `activemq::util::ActiveMQProperties` (p. 335).

6.142.3.10 `virtual std::vector< std::pair< std::string, std::string > >
cms::CMSProperties::toArray () const [pure virtual]`

Method that serializes the contents of the property map to an array.

Returns:

list of pairs where the first is the name and the second is the value.

Implemented in `activemq::util::ActiveMQProperties` (p. 335).

6.142.3.11 `virtual std::string cms::CMSProperties::toString () const [pure
virtual]`

Formats the contents of the Properties Object into a string that can be logged, etc.

Returns:

string value of this object.

Implemented in `activemq::util::ActiveMQProperties` (p. 335).

The documentation for this class was generated from the following file:

- `src/main/cms/CMSProperties.h`

6.143 cms::CMSSecurityException Class Reference

This exception must be thrown when a provider rejects a user name/password submitted by a client.

#include <src/main/cms/CMSSecurityException.h> Inheritance diagram for cms::CMSSecurityException:

Public Member Functions

- **CMSSecurityException** () throw ()
- **CMSSecurityException** (const **CMSSecurityException** &ex) throw ()
- **CMSSecurityException** (const std::string &message, const std::exception *cause) throw ()
- **CMSSecurityException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**CMSSecurityException** () throw ()

6.143.1 Detailed Description

This exception must be thrown when a provider rejects a user name/password submitted by a client. It may also be thrown for any case where a security restriction prevents a method from completing.

Since:

1.3

6.143.2 Constructor & Destructor Documentation

6.143.2.1 cms::CMSSecurityException::CMSSecurityException () throw ()

6.143.2.2 cms::CMSSecurityException::CMSSecurityException (const CMSSecurityException & ex) throw ()

6.143.2.3 cms::CMSSecurityException::CMSSecurityException (const std::string & message, const std::exception * cause) throw ()

6.143.2.4 cms::CMSSecurityException::CMSSecurityException (const std::string & message, const std::exception * cause, const std::vector< std::pair< std::string, int > > & stackTrace) throw ()

6.143.2.5 virtual cms::CMSSecurityException::~~CMSSecurityException () throw () [virtual]

The documentation for this class was generated from the following file:

- src/main/cms/CMSSecurityException.h

6.144 activemq::cmsutil::CmsTemplate Class Reference

CmsTemplate (p. 858) simplifies performing synchronous CMS operations.

#include <src/main/activemq/cmsutil/CmsTemplate.h> Inheritance diagram for activemq::cmsutil::CmsTemplate:

Data Structures

- class **ProducerExecutor**
- class **ReceiveExecutor**
- class **ResolveProducerExecutor**
- class **ResolveReceiveExecutor**
- class **SendExecutor**

Public Member Functions

- **CmsTemplate** ()
- **CmsTemplate** (cms::ConnectionFactory *connectionFactory)
- virtual ~**CmsTemplate** ()
- virtual void **setDefaultDestination** (cms::Destination *defaultDestination)
Sets the destination object to be used by default for send/receive operations.
- virtual const cms::Destination * **getDefaultDestination** () const
Retrieves the default destination to be used for send/receive operations.
- virtual cms::Destination * **getDefaultDestination** ()
Retrieves the default destination to be used for send/receive operations.
- virtual void **setDefaultDestinationName** (const std::string &defaultDestinationName)
Sets the name of the default destination to be used from send/receive operations.
- virtual const std::string **getDefaultDestinationName** () const
Gets the name of the default destination to be used for send/receive operations.
- virtual void **setPubSubDomain** (bool pubSubDomain)
Indicates whether the default destination is a topic (true) or a queue (false).
- virtual void **setMessageIdEnabled** (bool messageIdEnabled)
- virtual bool **isMessageIdEnabled** () const
- virtual void **setMessageTimestampEnabled** (bool messageTimestampEnabled)
- virtual bool **isMessageTimestampEnabled** () const
- virtual void **setNoLocal** (bool noLocal)
- virtual bool **isNoLocal** () const
- virtual void **setReceiveTimeout** (long long receiveTimeout)
- virtual long long **getReceiveTimeout** () const
- virtual void **setExplicitQosEnabled** (bool explicitQosEnabled)
Set if the QOS values (deliveryMode, priority, timeToLive) should be used for sending a message.

- virtual bool **isExplicitQosEnabled** () const
If "true", then the values of deliveryMode, priority, and timeToLive will be used when sending a message.
- virtual void **setDeliveryPersistent** (bool deliveryPersistent)
Set whether message delivery should be persistent or non-persistent, specified as boolean value ("true" or "false").
- virtual void **setDeliveryMode** (int deliveryMode)
Set the delivery mode to use when sending a message.
- virtual int **getDeliveryMode** () const
Return the delivery mode to use when sending a message.
- virtual void **setPriority** (int priority)
Set the priority of a message when sending.
- virtual int **getPriority** () const
Return the priority of a message when sending.
- virtual void **setTimeToLive** (long long timeToLive)
Set the time-to-live of the message when sending.
- virtual long long **getTimeToLive** () const
Return the time-to-live of the message when sending.
- virtual void **execute** (SessionCallback *action) throw (cms::CMSException)
Executes the given action within a CMS Session.
- virtual void **execute** (ProducerCallback *action) throw (cms::CMSException)
Executes the given action and provides it with a CMS Session and producer.
- virtual void **execute** (cms::Destination *dest, ProducerCallback *action) throw (cms::CMSException)
Executes the given action and provides it with a CMS Session and producer.
- virtual void **execute** (const std::string &destinationName, ProducerCallback *action) throw (cms::CMSException)
Executes the given action and provides it with a CMS Session and producer.
- virtual void **send** (MessageCreator *messageCreator) throw (cms::CMSException)
Convenience method for sending a message to the default destination.
- virtual void **send** (cms::Destination *dest, MessageCreator *messageCreator) throw (cms::CMSException)
Convenience method for sending a message to the specified destination.
- virtual void **send** (const std::string &destinationName, MessageCreator *messageCreator) throw (cms::CMSException)

Convenience method for sending a message to the specified destination.

- virtual **cms::Message** * **receive** () throw (cms::CMSEException)
Performs a synchronous read from the default destination.
- virtual **cms::Message** * **receive** (cms::Destination *destination) throw (cms::CMSEException)
Performs a synchronous read from the specified destination.
- virtual **cms::Message** * **receive** (const std::string &destinationName) throw (cms::CMSEException)
Performs a synchronous read from the specified destination.
- virtual **cms::Message** * **receiveSelected** (const std::string &selector) throw (cms::CMSEException)
Performs a synchronous read consuming only messages identified by the given selector.
- virtual **cms::Message** * **receiveSelected** (cms::Destination *destination, const std::string &selector) throw (cms::CMSEException)
Performs a synchronous read from the specified destination, consuming only messages identified by the given selector.
- virtual **cms::Message** * **receiveSelected** (const std::string &destinationName, const std::string &selector) throw (cms::CMSEException)
Performs a synchronous read from the specified destination, consuming only messages identified by the given selector.

Static Public Attributes

- static const long long **RECEIVE_TIMEOUT_NO_WAIT** = -1
Timeout value indicating that a receive operation should check if a message is immediately available without blocking.
- static const long long **RECEIVE_TIMEOUT_INDEFINITE_WAIT** = 0
Timeout value indicating a blocking receive without timeout.
- static const int **DEFAULT_PRIORITY** = 4
Default message priority.
- static const long long **DEFAULT_TIME_TO_LIVE** = 0
My default, messages should live forever.

Protected Member Functions

- void **init** () throw (cms::CMSEException, decaf::lang::exceptions::IllegalStateException)
Initializes this object and prepares it for use.

- void **destroy** () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)

Clears all internal resources.

Friends

- class **ProducerExecutor**
- class **ResolveProducerExecutor**
- class **SendExecutor**
- class **ReceiveExecutor**
- class **ResolveReceiveExecutor**

6.144.1 Detailed Description

CmsTemplate (p. 858) simplifies performing synchronous CMS operations. This class is intended to be for CMS what Spring's **JmsTemplate** is for JMS. Provided with a CMS **ConnectionFactory**, creates and manages all other CMS resources internally.

Before using **CmsTemplate** (p. 858) the user must first set the destination (either by name or by setting the destination object directly) and then call **init** to initialize the object for use.

CmsTemplate (p. 858) allows the user to get access to a CMS **Session** through a user-defined **SessionCallback** (p. 2283). Similarly, if the user wants direct access to a CMS **MessageProducer**, it can provide a **ProducerCallback** (p. 2102). As a convenience, the user can bypass having to provide callbacks altogether for sending messages, by calling one of the **send** methods.

See also:

SessionCallback (p. 2283)
ProducerCallback (p. 2102)
MessageCreator (p. 1799)

6.144.2 Constructor & Destructor Documentation

6.144.2.1 **activemq::cmsutil::CmsTemplate::CmsTemplate** ()

6.144.2.2 **activemq::cmsutil::CmsTemplate::CmsTemplate** (cms::ConnectionFactory * *connectionFactory*)

6.144.2.3 **virtual activemq::cmsutil::CmsTemplate::~~CmsTemplate** () [virtual]

6.144.3 Member Function Documentation

6.144.3.1 **void activemq::cmsutil::CmsTemplate::destroy** () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException)
[protected, virtual]

Clears all internal resources.

Reimplemented from **activemq::cmsutil::CmsDestinationAccessor** (p. 848).

6.144.3.2 `virtual void activemq::cmsutil::CmsTemplate::execute (const std::string & destinationName, ProducerCallback * action) throw (cms::CMSEException)` [virtual]

Executes the given action and provides it with a CMS Session and producer.

Parameters:

destinationName the name of the destination to send messages to (to internally be resolved to an actual destination)

action the action to perform

Exceptions:

cms::CMSEException (p. 850) thrown if an error occurs.

6.144.3.3 `virtual void activemq::cmsutil::CmsTemplate::execute (cms::Destination * dest, ProducerCallback * action) throw (cms::CMSEException)` [virtual]

Executes the given action and provides it with a CMS Session and producer.

Parameters:

dest the destination to send messages to

action the action to perform

Exceptions:

cms::CMSEException (p. 850) thrown if an error occurs.

6.144.3.4 `virtual void activemq::cmsutil::CmsTemplate::execute (ProducerCallback * action) throw (cms::CMSEException)` [virtual]

Executes the given action and provides it with a CMS Session and producer.

Parameters:

action the action to perform

Exceptions:

cms::CMSEException (p. 850) thrown if an error occurs.

6.144.3.5 `virtual void activemq::cmsutil::CmsTemplate::execute (SessionCallback * action) throw (cms::CMSEException)` [virtual]

Executes the given action within a CMS Session.

Parameters:

action the action to perform within a CMS Session

Exceptions:

cms::CMSEException (p. 850) thrown if an error occurs.

6.144.3.6 `virtual cms::Destination* activemq::cmsutil::CmsTemplate::getDefaultDestination ()`
[inline, virtual]

Retrieves the default destination to be used for send/receive operations.

Returns:

the default destination. Non-const version of this method.

6.144.3.7 `virtual const cms::Destination* activemq::cmsutil::CmsTemplate::getDefaultDestination () const`
[inline, virtual]

Retrieves the default destination to be used for send/receive operations.

Returns:

the default destination. Const version of this method.

6.144.3.8 `virtual const std::string activemq::cmsutil::CmsTemplate::getDefaultDestinationName () const`
[inline, virtual]

Gets the name of the default destination to be used for send/receive operations. The destination type (topic/queue) is determined by the `pubSubDomain` property.

Returns:

the default name of the destination for send/receive operations.

6.144.3.9 `virtual int activemq::cmsutil::CmsTemplate::getDeliveryMode () const`
[inline, virtual]

Return the delivery mode to use when sending a message.

6.144.3.10 `virtual int activemq::cmsutil::CmsTemplate::getPriority () const`
[inline, virtual]

Return the priority of a message when sending.

6.144.3.11 `virtual long long activemq::cmsutil::CmsTemplate::getReceiveTimeout () const` [inline, virtual]

6.144.3.12 `virtual long long activemq::cmsutil::CmsTemplate::getTimeToLive () const` [inline, virtual]

Return the time-to-live of the message when sending.

6.144.3.13 `void activemq::cmsutil::CmsTemplate::init () throw (cms::CMSException, decaf::lang::exceptions::IllegalStateException) [protected, virtual]`

Initializes this object and prepares it for use. This should be called before any other methods are called.

Reimplemented from `activemq::cmsutil::CmsDestinationAccessor` (p. 848).

6.144.3.14 `virtual bool activemq::cmsutil::CmsTemplate::isExplicitQosEnabled () const [inline, virtual]`

If "true", then the values of `deliveryMode`, `priority`, and `timeToLive` will be used when sending a message. Otherwise, the default values, that may be set administratively, will be used.

Returns:

true if overriding default values of QOS parameters (`deliveryMode`, `priority`, and `timeToLive`)

See also:

`setDeliveryMode` (p. 868)

`setPriority` (p. 869)

`setTimeToLive` (p. 869)

6.144.3.15 `virtual bool activemq::cmsutil::CmsTemplate::isMessageIdEnabled () const [inline, virtual]`

6.144.3.16 `virtual bool activemq::cmsutil::CmsTemplate::isMessageTimestampEnabled () const [inline, virtual]`

6.144.3.17 `virtual bool activemq::cmsutil::CmsTemplate::isNoLocal () const [inline, virtual]`

6.144.3.18 `virtual cms::Message* activemq::cmsutil::CmsTemplate::receive (const std::string & destinationName) throw (cms::CMSException) [virtual]`

Performs a synchronous read from the specified destination.

Parameters:

destinationName the name of the destination to receive on (will be resolved to destination internally).

Returns:

the message

Exceptions:

cms::CMSException (p. 850) thrown if an error occurs

6.144.3.19 `virtual cms::Message* activemq::cmsutil::CmsTemplate::receive (cms::Destination * destination) throw (cms::CMSEException) [virtual]`

Performs a synchronous read from the specified destination.

Parameters:

destination the destination to receive on

Returns:

the message

Exceptions:

cms::CMSEException (p. 850) thrown if an error occurs

6.144.3.20 `virtual cms::Message* activemq::cmsutil::CmsTemplate::receive () throw (cms::CMSEException) [virtual]`

Performs a synchronous read from the default destination.

Returns:

the message

Exceptions:

cms::CMSEException (p. 850) thrown if an error occurs

6.144.3.21 `virtual cms::Message* activemq::cmsutil::CmsTemplate::receiveSelected (const std::string & destinationName, const std::string & selector) throw (cms::CMSEException) [virtual]`

Performs a synchronous read from the specified destination, consuming only messages identified by the given selector.

Parameters:

destinationName the name of the destination to receive on (will be resolved to destination internally).

selector the selector expression.

Returns:

the message

Exceptions:

cms::CMSEException (p. 850) thrown if an error occurs

6.144.3.22 `virtual cms::Message* activemq::cmsutil::CmsTemplate::receiveSelected (cms::Destination * destination, const std::string & selector) throw (cms::CMSException)` [virtual]

Performs a synchronous read from the specified destination, consuming only messages identified by the given selector.

Parameters:

destination the destination to receive on.

selector the selector expression.

Returns:

the message

Exceptions:

cms::CMSException (p. 850) thrown if an error occurs

6.144.3.23 `virtual cms::Message* activemq::cmsutil::CmsTemplate::receiveSelected (const std::string & selector) throw (cms::CMSException)` [virtual]

Performs a synchronous read consuming only messages identified by the given selector.

Parameters:

selector the selector expression.

Returns:

the message

Exceptions:

cms::CMSException (p. 850) thrown if an error occurs

6.144.3.24 `virtual void activemq::cmsutil::CmsTemplate::send (const std::string & destinationName, MessageCreator * messageCreator) throw (cms::CMSException)` [virtual]

Convenience method for sending a message to the specified destination.

Parameters:

destinationName The name of the destination to send to.

messageCreator Responsible for creating the message to be sent

Exceptions:

cms::CMSException (p. 850) thrown if an error occurs.

6.144.3.25 `virtual void activemq::cmsutil::CmsTemplate::send (cms::Destination * dest, MessageCreator * messageCreator) throw (cms::CMSException)` [virtual]

Convenience method for sending a message to the specified destination.

Parameters:

dest The destination to send to

messageCreator Responsible for creating the message to be sent

Exceptions:

cms::CMSException (p. 850) thrown if an error occurs.

6.144.3.26 `virtual void activemq::cmsutil::CmsTemplate::send (MessageCreator * messageCreator) throw (cms::CMSException)` [virtual]

Convenience method for sending a message to the default destination.

Parameters:

messageCreator Responsible for creating the message to be sent

Exceptions:

cms::CMSException (p. 850) thrown if an error occurs.

6.144.3.27 `virtual void activemq::cmsutil::CmsTemplate::setDefaultDestination (cms::Destination * defaultDestination)` [inline, virtual]

Sets the destination object to be used by default for send/receive operations. If no default destination is provided, the `defaultDestinationName` property is used to resolve this default destination for send/receive operations.

Parameters:

defaultDestination the default destination

6.144.3.28 `virtual void activemq::cmsutil::CmsTemplate::setDefaultDestinationName (const std::string & defaultDestinationName)` [inline, virtual]

Sets the name of the default destination to be used from send/receive operations. Calling this method will set the `defaultDestination` property to NULL. The destination type (topic/queue) is determined by the `pubSubDomain` property.

Parameters:

defaultDestinationName the name of the destination for send/receive to by default.

6.144.3.29 **virtual void activemq::cmsutil::CmsTemplate::setDeliveryMode (int *deliveryMode*)** [inline, virtual]

Set the delivery mode to use when sending a message. Default is the Message default: "PERSISTENT".

Since a default value may be defined administratively, this is only used when "isExplicitQosEnabled" equals "true".

Parameters:

deliveryMode the delivery mode to use

See also:

isExplicitQosEnabled (p. 864)

6.144.3.30 **virtual void activemq::cmsutil::CmsTemplate::setDeliveryPersistent (bool *deliveryPersistent*)** [inline, virtual]

Set whether message delivery should be persistent or non-persistent, specified as boolean value ("true" or "false"). This will set the delivery mode accordingly, to either "PERSISTENT" or "NON_PERSISTENT".

Default it "true" aka delivery mode "PERSISTENT".

See also:

setDeliveryMode(int) (p. 868)

6.144.3.31 **virtual void activemq::cmsutil::CmsTemplate::setExplicitQosEnabled (bool *explicitQosEnabled*)** [inline, virtual]

Set if the QOS values (deliveryMode, priority, timeToLive) should be used for sending a message.

See also:

setDeliveryMode (p. 868)

setPriority (p. 869)

setTimeToLive (p. 869)

- 6.144.3.32** `virtual void activemq::cmsutil::CmsTemplate::setMessageIdEnabled (bool messageIdEnabled) [inline, virtual]`
- 6.144.3.33** `virtual void activemq::cmsutil::CmsTemplate::setMessageTimestampEnabled (bool messageTimestampEnabled) [inline, virtual]`
- 6.144.3.34** `virtual void activemq::cmsutil::CmsTemplate::setNoLocal (bool noLocal) [inline, virtual]`
- 6.144.3.35** `virtual void activemq::cmsutil::CmsTemplate::setPriority (int priority) [inline, virtual]`

Set the priority of a message when sending. Since a default value may be defined administratively, this is only used when "isExplicitQosEnabled" equals "true".

See also:

`isExplicitQosEnabled` (p. 864)

- 6.144.3.36** `virtual void activemq::cmsutil::CmsTemplate::setPubSubDomain (bool pubSubDomain) [inline, virtual]`

Indicates whether the default destination is a topic (true) or a queue (false). Calling this method will set the `defaultDestination` property to NULL.

Parameters:

pubSubDomain indicates whether to use pub-sub messaging (topics).

Reimplemented from `activemq::cmsutil::CmsDestinationAccessor` (p. 849).

References `activemq::cmsutil::CmsDestinationAccessor::setPubSubDomain()`.

- 6.144.3.37** `virtual void activemq::cmsutil::CmsTemplate::setReceiveTimeout (long long receiveTimeout) [inline, virtual]`
- 6.144.3.38** `virtual void activemq::cmsutil::CmsTemplate::setTimeToLive (long long timeToLive) [inline, virtual]`

Set the time-to-live of the message when sending. Since a default value may be defined administratively, this is only used when "isExplicitQosEnabled" equals "true".

Parameters:

timeToLive the message's lifetime (in milliseconds)

See also:

`isExplicitQosEnabled` (p. 864)

6.144.4 Friends And Related Function Documentation

6.144.4.1 friend class `ProducerExecutor` [friend]

6.144.4.2 friend class `ReceiveExecutor` [friend]

6.144.4.3 friend class `ResolveProducerExecutor` [friend]

6.144.4.4 friend class `ResolveReceiveExecutor` [friend]

6.144.4.5 friend class `SendExecutor` [friend]

6.144.5 Field Documentation

6.144.5.1 `const int activemq::cmsutil::CmsTemplate::DEFAULT_PRIORITY = 4`
[static]

Default message priority.

6.144.5.2 `const long long activemq::cmsutil::CmsTemplate::DEFAULT_TIME_TO_LIVE = 0` [static]

My default, messages should live forever.

6.144.5.3 `const long long activemq::cmsutil::CmsTemplate::RECEIVE_TIMEOUT_INDEFINITE_WAIT = 0` [static]

Timeout value indicating a blocking receive without timeout.

6.144.5.4 `const long long activemq::cmsutil::CmsTemplate::RECEIVE_TIMEOUT_NO_WAIT = -1` [static]

Timeout value indicating that a receive operation should check if a message is immediately available without blocking.

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/CmsTemplate.h`

6.145 decaf::util::Collection< E > Class Template Reference

The root interface in the collection hierarchy.

```
#include <src/main/decaf/util/Collection.h> Inheritance diagram for
decaf::util::Collection< E >:
```

Public Member Functions

- virtual **~Collection** ()
- virtual bool **add** (const E &value)=0 throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException)
Returns true if this collection changed as a result of the call.
- virtual bool **addAll** (const **Collection**< E > &collection)=0 throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException)
Adds all of the elements in the specified collection to this collection.
- virtual void **clear** ()=0 throw (lang::exceptions::UnsupportedOperationException)
Removes all of the elements from this collection (optional operation).
- virtual bool **contains** (const E &value) const =0 throw (lang::Exception)
Returns true if this collection contains the specified element.
- virtual bool **containsAll** (const **Collection**< E > &collection) const =0 throw (lang::Exception)
Returns true if this collection contains all of the elements in the specified collection.
- virtual bool **equals** (const **Collection**< E > &value) const =0
Compares the passed collection to this one, if they contain the same elements, i.e.
- virtual bool **isEmpty** () const =0
- virtual bool **remove** (const E &value)=0 throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)
Removes a single instance of the specified element from the collection.
- virtual bool **removeAll** (const **Collection**< E > &collection)=0 throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)
Removes all this collection's elements that are also contained in the specified collection (optional operation).
- virtual bool **retainAll** (const **Collection**< E > &collection)=0 throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)
Retains only the elements in this collection that are contained in the specified collection (optional operation).

- virtual std::size_t **size** () const =0

Returns the number of elements in this collection.

- virtual std::vector< E > **toArray** () const =0

Returns an array containing all of the elements in this collection.

6.145.1 Detailed Description

template<typename E> class decaf::util::Collection< E >

The root interface in the collection hierarchy. A collection represents a group of objects, known as its elements. Some collections allow duplicate elements and others do not. Some are ordered and others unordered. This interface is typically used to pass collections around and manipulate them where maximum generality is desired.

All general-purpose **Collection** (p. 871) implementation classes (which typically implement **Collection** (p. 871) indirectly through one of its subinterfaces) should provide two "standard" constructors: a void (no arguments) constructor, which creates an empty collection, and a constructor with a single argument of type **Collection** (p. 871), which creates a new collection with the same elements as its argument. In effect, the latter constructor allows the user to copy any collection, producing an equivalent collection of the desired implementation type. There is no way to enforce this convention (as interfaces cannot contain constructors) but all of the general-purpose **Collection** (p. 871) implementations in the Decaf platform libraries comply.

The "destructive" methods contained in this interface, that is, the methods that modify the collection on which they operate, are specified to throw `UnsupportedOperationException` if this collection does not support the operation. If this is the case, these methods may, but are not required to, throw an `UnsupportedOperationException` if the invocation would have no effect on the collection. For example, invoking the `addAll(Collection)` method on an unmodifiable collection may, but is not required to, throw the exception if the collection to be added is empty.

Many methods in Collections Framework interfaces are defined in terms of the `equals` method. For example, the specification for the `contains(Object o)` method says: returns true if and only if this collection contains at least one element `e` such that `(o==null ? e==null : o.equals(e))`.

Since:

1.0

6.145.2 Constructor & Destructor Documentation

6.145.2.1 `template<typename E> virtual decaf::util::Collection< E >::~~Collection()` [inline, virtual]

6.145.3 Member Function Documentation

6.145.3.1 `template<typename E> virtual bool decaf::util::Collection< E >::add (const E & value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException)` [pure virtual]

Returns true if this collection changed as a result of the call. (Returns false if this collection does not permit duplicates and already contains the specified element.)

Collections that support this operation may place limitations on what elements may be added to this collection. In particular, some collections will refuse to add null elements, and others will impose restrictions on the type of elements that may be added. **Collection** (p. 871) classes should clearly specify in their documentation any restrictions on what elements may be added.

If a collection refuses to add a particular element for any reason other than that it already contains the element, it must throw an exception (rather than returning false). This preserves the invariant that a collection always contains the specified element after this call returns.

For non-pointer values, i.e. class instances or string's the object will be copied into the collection, thus the object must support being copied, must not hide the copy constructor and assignment operator.

Parameters:

value - reference to the element to add.

Returns:

true if the element was added

Exceptions:

UnsupportedOperationException

IllegalArgumentException

IllegalStateException if the element cannot be added at this time due to insertion restrictions

Implemented in `decaf::util::AbstractQueue< E >` (p. 137), `decaf::util::StlList< E >` (p. 2421), `decaf::util::StlSet< E >` (p. 2448), `decaf::util::StlList< CompositeTask * >` (p. 2421), `decaf::util::StlList< URI >` (p. 2421), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2421), `decaf::util::StlList< PrimitiveValueNode >` (p. 2421), `decaf::util::StlList< Pointer< Command > >` (p. 2421), `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2421), `decaf::util::StlSet< Pointer< Synchronization > >` (p. 2448), and `decaf::util::StlSet< ActiveMQSession * >` (p. 2448).

```

6.145.3.2  template<typename E> virtual bool decaf::util::Collection<
            E >::addAll (const Collection< E > & collection) throw
            ( lang::exceptions::UnsupportedOperationException,
              lang::exceptions::IllegalArgumentException,
              lang::exceptions::IllegalStateException ) [pure
              virtual]

```

Adds all of the elements in the specified collection to this collection. The behavior of this operation is undefined if the specified collection is modified while the operation is in progress. (This implies that the behavior of this call is undefined if the specified collection is this collection, and this collection is nonempty.)

Parameters:

collection - **Collection** (p. 871) whose elements are added to this one.

Returns:

true if this collection changed as a result of the call

Exceptions:

UnsupportedOperationException

IllegalArgumentException

IllegalStateException if the element cannot be added at this time due to insertion restrictions

```

6.145.3.3  template<typename E> virtual void decaf::util::Collection< E >::clear
            () throw ( lang::exceptions::UnsupportedOperationException ) [pure
            virtual]

```

Removes all of the elements from this collection (optional operation). This collection will be empty after this method returns unless it throws an exception.

Exceptions:

UnsupportedOperationException

Implemented in **decaf::util::AbstractCollection< E >** (p. 127), **decaf::util::AbstractQueue< E >** (p. 138), **decaf::util::StlList< E >** (p. 2423), **decaf::util::StlSet< E >** (p. 2449), **decaf::util::AbstractCollection< Pointer< Synchronization > >** (p. 127), **decaf::util::AbstractCollection< CompositeTask * >** (p. 127), **decaf::util::AbstractCollection< URI >** (p. 127), **decaf::util::AbstractCollection< ActiveMQSession * >** (p. 127), **decaf::util::AbstractCollection< Pointer< DestinationInfo > >** (p. 127), **decaf::util::AbstractCollection< PrimitiveValueNode >** (p. 127), **decaf::util::AbstractCollection< Pointer< Command > >** (p. 127), **decaf::util::AbstractCollection< Pointer< BackupTransport > >** (p. 127), **decaf::util::StlList< CompositeTask * >** (p. 2423), **decaf::util::StlList< URI >** (p. 2423), **decaf::util::StlList< Pointer< DestinationInfo > >** (p. 2423), **decaf::util::StlList< PrimitiveValueNode >** (p. 2423), **decaf::util::StlList< Pointer< Command > >** (p. 2423), **decaf::util::StlList< Pointer< BackupTransport > >** (p. 2423), **decaf::util::StlSet< Pointer< Synchronization > >** (p. 2449), and **decaf::util::StlSet< ActiveMQSession * >** (p. 2449).

6.145.3.4 `template<typename E> virtual bool decaf::util::Collection< E >::contains (const E & value) const throw (lang::Exception)` [pure virtual]

Returns true if this collection contains the specified element. More formally, returns true if and only if this collection contains at least one element *e* such that (*o*==null ? *e*==null : *o.equals(e)*).

Parameters:

value - value to check for presence in the collection

Returns:

true if there is at least one of the elements in the collection

Exceptions:

Exception

Implemented in `decaf::util::AbstractCollection< E >` (p.127), `decaf::util::StlList< E >` (p.2423), `decaf::util::StlSet< E >` (p.2450), `decaf::util::AbstractCollection< Pointer< Synchronization > >` (p.127), `decaf::util::AbstractCollection< CompositeTask * >` (p.127), `decaf::util::AbstractCollection< URI >` (p.127), `decaf::util::AbstractCollection< ActiveMQSession * >` (p.127), `decaf::util::AbstractCollection< Pointer< DestinationInfo > >` (p.127), `decaf::util::AbstractCollection< PrimitiveValueNode >` (p.127), `decaf::util::AbstractCollection< Pointer< Command > >` (p.127), `decaf::util::AbstractCollection< Pointer< BackupTransport > >` (p.127), `decaf::util::StlList< CompositeTask * >` (p.2423), `decaf::util::StlList< URI >` (p.2423), `decaf::util::StlList< Pointer< DestinationInfo > >` (p.2423), `decaf::util::StlList< PrimitiveValueNode >` (p.2423), `decaf::util::StlList< Pointer< Command > >` (p.2423), `decaf::util::StlList< Pointer< BackupTransport > >` (p.2423), `decaf::util::StlSet< Pointer< Synchronization > >` (p.2450), and `decaf::util::StlSet< ActiveMQSession * >` (p.2450).

6.145.3.5 `template<typename E> virtual bool decaf::util::Collection< E >::containsAll (const Collection< E > & collection) const throw (lang::Exception)` [pure virtual]

Returns true if this collection contains all of the elements in the specified collection.

Parameters:

collection - `Collection` (p.871) to compare to this one.

Exceptions:

Exception

6.145.3.6 `template<typename E> virtual bool decaf::util::Collection< E >::equals (const Collection< E > & value) const` [pure virtual]

Compares the passed collection to this one, if they contain the same elements, i.e. all their elements are equivalent, then it returns true.

Returns:

true if the Collections contain the same elements.

Implemented in `decaf::util::StlList< E >` (p. 2424), and `decaf::util::StlSet< E >` (p. 2450).

6.145.3.7 `template<typename E> virtual bool decaf::util::Collection< E >::isEmpty () const` [pure virtual]

Returns:

true if this collection contains no elements.

Implemented in `decaf::util::AbstractCollection< E >` (p. 129), `decaf::util::StlList< E >` (p. 2425), `decaf::util::StlSet< E >` (p. 2450), `decaf::util::AbstractCollection< Pointer< Synchronization > >` (p. 129), `decaf::util::AbstractCollection< CompositeTask * >` (p. 129), `decaf::util::AbstractCollection< URI >` (p. 129), `decaf::util::AbstractCollection< ActiveMQSession * >` (p. 129), `decaf::util::AbstractCollection< Pointer< DestinationInfo > >` (p. 129), `decaf::util::AbstractCollection< PrimitiveValueNode >` (p. 129), `decaf::util::AbstractCollection< Pointer< Command > >` (p. 129), `decaf::util::AbstractCollection< Pointer< BackupTransport > >` (p. 129), `decaf::util::StlList< CompositeTask * >` (p. 2425), `decaf::util::StlList< URI >` (p. 2425), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2425), `decaf::util::StlList< PrimitiveValueNode >` (p. 2425), `decaf::util::StlList< Pointer< Command > >` (p. 2425), `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2425), `decaf::util::StlSet< Pointer< Synchronization > >` (p. 2450), and `decaf::util::StlSet< ActiveMQSession * >` (p. 2450).

6.145.3.8 `template<typename E> virtual bool decaf::util::Collection< E >::remove (const E & value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)` [pure virtual]

Removes a single instance of the specified element from the collection. More formally, removes an element *e* such that (*o*==null ? *e*==null : *o*.equals(*e*)), if this collection contains one or more such elements. Returns true if this collection contained the specified element (or equivalently, if this collection changed as a result of the call).

Parameters:

value - reference to the element to remove.

Returns:

true if the collection was changed

Exceptions:

UnsupportedOperationException
IllegalArgumentException

Implemented in `decaf::util::AbstractCollection< E >` (p. 130), `decaf::util::StlList< E >` (p. 2427), `decaf::util::StlSet< E >` (p. 2451), `decaf::util::AbstractCollection<`

Pointer< Synchronization > > (p. 130), **decaf::util::AbstractCollection< CompositeTask * >** (p. 130), **decaf::util::AbstractCollection< URI >** (p. 130), **decaf::util::AbstractCollection< ActiveMQSession * >** (p. 130), **decaf::util::AbstractCollection< Pointer< DestinationInfo > >** (p. 130), **decaf::util::AbstractCollection< PrimitiveValueNode >** (p. 130), **decaf::util::AbstractCollection< Pointer< Command > >** (p. 130), **decaf::util::AbstractCollection< Pointer< BackupTransport > >** (p. 130), **decaf::util::StlList< CompositeTask * >** (p. 2427), **decaf::util::StlList< URI >** (p. 2427), **decaf::util::StlList< Pointer< DestinationInfo > >** (p. 2427), **decaf::util::StlList< PrimitiveValueNode >** (p. 2427), **decaf::util::StlList< Pointer< Command > >** (p. 2427), **decaf::util::StlList< Pointer< BackupTransport > >** (p. 2427), **decaf::util::StlSet< Pointer< Synchronization > >** (p. 2451), and **decaf::util::StlSet< ActiveMQSession * >** (p. 2451).

6.145.3.9 `template<typename E> virtual bool decaf::util::Collection< E >::removeAll (const Collection< E > & collection)
 throw (lang::exceptions::UnsupportedOperationException,
 lang::exceptions::IllegalArgumentException) [pure virtual]`

Removes all this collection's elements that are also contained in the specified collection (optional operation). After this call returns, this collection will contain no elements in common with the specified collection.

Parameters:

collection - The **Collection** (p. 871) whose elements are to be removed

Returns:

true if the collection changed as a result of this call

Exceptions:

UnsupportedOperationException

IllegalArgumentException

6.145.3.10 `template<typename E> virtual bool decaf::util::Collection< E >::retainAll (const Collection< E > & collection)
 throw (lang::exceptions::UnsupportedOperationException,
 lang::exceptions::IllegalArgumentException) [pure virtual]`

Retains only the elements in this collection that are contained in the specified collection (optional operation). In other words, removes from this collection all of its elements that are not contained in the specified collection.

Parameters:

collection - The **Collection** (p. 871) whose elements are to be retained

Returns:

true if the collection changed as a result of this call

Exceptions:*UnsupportedOperationException**IllegalArgumentException*

6.145.3.11 `template<typename E> virtual std::size_t decaf::util::Collection< E >::size () const [pure virtual]`

Returns the number of elements in this collection. If this collection contains more than Integer.MAX_VALUE elements, returns Integer.MAX_VALUE.

Returns:

the number of elements in this collection

Implemented in `decaf::util::StlList< E >` (p. 2428), `decaf::util::StlSet< E >` (p. 2451), `decaf::util::StlList< CompositeTask * >` (p. 2428), `decaf::util::StlList< URI >` (p. 2428), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2428), `decaf::util::StlList< PrimitiveValueNode >` (p. 2428), `decaf::util::StlList< Pointer< Command > >` (p. 2428), `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2428), `decaf::util::StlSet< Pointer< Synchronization > >` (p. 2451), and `decaf::util::StlSet< ActiveMQSession * >` (p. 2451).

Referenced by `decaf::util::AbstractCollection< Pointer< BackupTransport > >::equals()`, `decaf::util::AbstractCollection< Pointer< BackupTransport > >::isEmpty()`, `decaf::util::AbstractSet< ActiveMQSession * >::removeAll()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::toArray()`.

6.145.3.12 `template<typename E> virtual std::vector<E> decaf::util::Collection< E >::toArray () const [pure virtual]`

Returns an array containing all of the elements in this collection. If the collection makes any guarantees as to what order its elements are returned by its iterator, this method must return the elements in the same order.

This method acts as bridge between array-based and collection-based APIs.

Returns:

an array of the elements in this collection.

Implemented in `decaf::util::AbstractCollection< E >` (p. 132), `decaf::util::AbstractCollection< Pointer< Synchronization > >` (p. 132), `decaf::util::AbstractCollection< CompositeTask * >` (p. 132), `decaf::util::AbstractCollection< URI >` (p. 132), `decaf::util::AbstractCollection< ActiveMQSession * >` (p. 132), `decaf::util::AbstractCollection< Pointer< DestinationInfo > >` (p. 132), `decaf::util::AbstractCollection< PrimitiveValueNode >` (p. 132), `decaf::util::AbstractCollection< Pointer< Command > >` (p. 132), and `decaf::util::AbstractCollection< Pointer< BackupTransport > >` (p. 132).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Collection.h`

6.146 activemq::commands::Command Class Reference

#include <src/main/activemq/commands/Command.h> Inheritance diagram for activemq::commands::Command:

Public Member Functions

- virtual `~Command ()`
- virtual void `setCommandId (int id)=0`
*Sets the **Command** (p. 879) Id of this **Message** (p. 1737).*
- virtual int `getCommandId () const =0`
*Gets the **Command** (p. 879) Id of this **Message** (p. 1737).*
- virtual void `setResponseRequired (const bool required)=0`
*Set if this **Message** (p. 1737) requires a **Response** (p. 2231).*
- virtual bool `isResponseRequired () const =0`
*Is a **Response** (p. 2231) required for this **Command** (p. 879).*
- virtual std::string `toString () const =0`
Returns a provider-specific string that provides information about the contents of the command.
- virtual `decaf::lang::Pointer< commands::Command > visit (activemq::state::CommandVisitor *visitor)=0` throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.
- virtual bool `isConnectionInfo () const =0`
- virtual bool `isConsumerInfo () const =0`
- virtual bool `isBrokerInfo () const =0`
- virtual bool `isKeepAliveInfo () const =0`
- virtual bool `isMessage () const =0`
- virtual bool `isMessageAck () const =0`
- virtual bool `isMessageDispatch () const =0`
- virtual bool `isMessageDispatchNotification () const =0`
- virtual bool `isProducerAck () const =0`
- virtual bool `isProducerInfo () const =0`
- virtual bool `isResponse () const =0`
- virtual bool `isRemoveInfo () const =0`
- virtual bool `isRemoveSubscriptionInfo () const =0`
- virtual bool `isShutdownInfo () const =0`
- virtual bool `isTransactionInfo () const =0`
- virtual bool `isWireFormatInfo () const =0`

6.146.1 Constructor & Destructor Documentation

6.146.1.1 `virtual activemq::commands::Command::~~Command () [inline, virtual]`

6.146.2 Member Function Documentation

6.146.2.1 `virtual int activemq::commands::Command::getCommandId () const [pure virtual]`

Gets the **Command** (p. 879) Id of this **Message** (p. 1737).

Returns:

Command (p. 879) Id

Implemented in **activemq::commands::BaseCommand** (p. 509).

6.146.2.2 `virtual bool activemq::commands::Command::isBrokerInfo () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 509), and **activemq::commands::BrokerInfo** (p. 611).

6.146.2.3 `virtual bool activemq::commands::Command::isConnectionInfo () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 510), and **activemq::commands::ConnectionInfo** (p. 1000).

6.146.2.4 `virtual bool activemq::commands::Command::isConsumerInfo () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 510), and **activemq::commands::ConsumerInfo** (p. 1066).

6.146.2.5 `virtual bool activemq::commands::Command::isKeepAliveInfo () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 510), and **activemq::commands::KeepAliveInfo** (p. 1557).

6.146.2.6 `virtual bool activemq::commands::Command::isMessage () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 510), and **activemq::commands::Message** (p. 1747).

6.146.2.7 virtual bool activemq::commands::Command::isMessageAck () const
[pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 510), and **activemq::commands::MessageAck** (p. 1780).

6.146.2.8 virtual bool activemq::commands::Command::isMessageDispatch () const
[pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 510), and **activemq::commands::MessageDispatch** (p. 1803).

6.146.2.9 virtual bool activemq::commands::Command::isMessageDispatchNotification () const
[pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 510), and **activemq::commands::MessageDispatchNotification** (p. 1826).

6.146.2.10 virtual bool activemq::commands::Command::isProducerAck () const
[pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 511), and **activemq::commands::ProducerAck** (p. 2088).

6.146.2.11 virtual bool activemq::commands::Command::isProducerInfo () const
[pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 511), and **activemq::commands::ProducerInfo** (p. 2125).

6.146.2.12 virtual bool activemq::commands::Command::isRemoveInfo () const
[pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 511), and **activemq::commands::RemoveInfo** (p. 2179).

6.146.2.13 virtual bool activemq::commands::Command::isRemoveSubscriptionInfo () const [pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 511), and **activemq::commands::RemoveSubscriptionInfo** (p. 2196).

6.146.2.14 virtual bool activemq::commands::Command::isResponse () const [pure virtual]

Implemented in **activemq::commands::BaseCommand** (p. 511), and **activemq::commands::Response** (p. 2233).

6.146.2.15 `virtual bool activemq::commands::Command::isResponseRequired () const [pure virtual]`

Is a **Response** (p. 2231) required for this **Command** (p. 879).

Returns:

true if a response is required.

Implemented in **activemq::commands::BaseCommand** (p. 511).

6.146.2.16 `virtual bool activemq::commands::Command::isShutdownInfo () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 511), and **activemq::commands::ShutdownInfo** (p. 2351).

6.146.2.17 `virtual bool activemq::commands::Command::isTransactionInfo () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 512), and **activemq::commands::TransactionInfo** (p. 2591).

6.146.2.18 `virtual bool activemq::commands::Command::isWireFormatInfo () const [pure virtual]`

Implemented in **activemq::commands::BaseCommand** (p. 512), and **activemq::commands::WireFormatInfo** (p. 2706).

6.146.2.19 `virtual void activemq::commands::Command::setCommandId (int id) [pure virtual]`

Sets the **Command** (p. 879) Id of this **Message** (p. 1737).

Parameters:

id **Command** (p. 879) Id

Implemented in **activemq::commands::BaseCommand** (p. 512).

6.146.2.20 `virtual void activemq::commands::Command::setResponseRequired (const bool required) [pure virtual]`

Set if this **Message** (p. 1737) requires a **Response** (p. 2231).

Parameters:

required true if response is required

Implemented in **activemq::commands::BaseCommand** (p. 512).

6.146.2.21 virtual std::string activemq::commands::Command::toString () const [pure virtual]

Returns a provider-specific string that provides information about the contents of the command.

Reimplemented from `activemq::commands::BaseDataStructure` (p. 560).

Implemented in `activemq::commands::ActiveMQBlobMessage` (p. 150), `activemq::commands::ActiveMQBytesMessage` (p. 173), `activemq::commands::ActiveMQMapMessage` (p. 266), `activemq::commands::ActiveMQMessage` (p. 281), `activemq::commands::ActiveMQObjectMessage` (p. 312), `activemq::commands::ActiveMQStreamMessage` (p. 382), `activemq::commands::ActiveMQTextMessage` (p. 452), `activemq::commands::BaseCommand` (p. 512), `activemq::commands::BrokerInfo` (p. 612), `activemq::commands::ConnectionControl` (p. 948), `activemq::commands::ConnectionError` (p. 964), `activemq::commands::ConnectionInfo` (p. 1001), `activemq::commands::ConsumerControl` (p. 1031), `activemq::commands::ConsumerInfo` (p. 1067), `activemq::commands::ControlCommand` (p. 1085), `activemq::commands::DataArrayResponse` (p. 1103), `activemq::commands::DataResponse` (p. 1134), `activemq::commands::DestinationInfo` (p. 1197), `activemq::commands::ExceptionResponse` (p. 1278), `activemq::commands::FlushCommand` (p. 1359), `activemq::commands::IntegerResponse` (p. 1444), `activemq::commands::KeepAliveInfo` (p. 1557), `activemq::commands::Message` (p. 1749), `activemq::commands::MessageAck` (p. 1781), `activemq::commands::MessageDispatch` (p. 1803), `activemq::commands::MessageDispatchNotification` (p. 1827), `activemq::commands::MessagePull` (p. 1896), `activemq::commands::ProducerAck` (p. 2088), `activemq::commands::ProducerInfo` (p. 2125), `activemq::commands::RemoveInfo` (p. 2179), `activemq::commands::RemoveSubscriptionInfo` (p. 2196), `activemq::commands::ReplayCommand` (p. 2212), `activemq::commands::Response` (p. 2233), `activemq::commands::SessionInfo` (p. 2302), `activemq::commands::ShutdownInfo` (p. 2351), `activemq::commands::TransactionInfo` (p. 2592), and `activemq::commands::WireFormatInfo` (p. 2708).

6.146.2.22 virtual decaf::lang::Pointer<commands::Command> activemq::commands::Command::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException) [pure virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implemented in `activemq::commands::BrokerError` (p. 589), `activemq::commands::BrokerInfo` (p. 613), `activemq::commands::ConnectionControl` (p. 948), `activemq::commands::ConnectionError` (p. 965), `activemq::commands::ConnectionInfo` (p. 1001), `activemq::commands::ConsumerControl` (p. 1032), `activemq::commands::ConsumerInfo` (p. 1068), `activemq::commands::ControlCommand` (p. 1085), `activemq::commands::DestinationInfo` (p. 1197), `activemq::commands::FlushCommand` (p. 1359), `activemq::commands::KeepAliveInfo` (p. 1557), `activemq::commands::Message` (p. 1750), `activemq::commands::MessageAck` (p. 1781), `activemq::commands::MessageDispatch`

(p. 1804), **activemq::commands::MessageDispatchNotification**
(p. 1827), **activemq::commands::MessagePull** (p. 1896), **ac-**
tivemq::commands::ProducerAck (p. 2089), **activemq::commands::ProducerInfo**
(p. 2126), **activemq::commands::RemoveInfo** (p. 2179), **ac-**
tivemq::commands::RemoveSubscriptionInfo (p. 2196), **ac-**
tivemq::commands::ReplayCommand (p. 2212), **activemq::commands::Response**
(p. 2234), **activemq::commands::SessionInfo** (p. 2302), **ac-**
tivemq::commands::ShutdownInfo (p. 2351), **activemq::commands::TransactionInfo**
(p. 2592), and **activemq::commands::WireFormatInfo** (p. 2708).

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/Command.h`

6.147 activemq::state::CommandVisitor Class Reference

Interface for an Object that can visit the various Command Objects that are sent from and to this client.

#include <src/main/activemq/state/CommandVisitor.h> Inheritance diagram for activemq::state::CommandVisitor:

Public Member Functions

- virtual `~CommandVisitor ()`
- virtual `decaf::lang::Pointer< commands::Command > processTransactionInfo (commands::TransactionInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processRemoveInfo (commands::RemoveInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processConnectionInfo (commands::ConnectionInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processSessionInfo (commands::SessionInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processProducerInfo (commands::ProducerInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processConsumerInfo (commands::ConsumerInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processRemoveConnection (commands::ConnectionId *id)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processRemoveSession (commands::SessionId *id)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processRemoveProducer (commands::ProducerId *id)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processRemoveConsumer (commands::ConsumerId *id)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processDestinationInfo (commands::DestinationInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processRemoveDestination (commands::DestinationInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processRemoveSubscriptionInfo (commands::RemoveSubscriptionInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processMessage (commands::Message *send)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processMessageAck (commands::MessageAck *ack)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processMessagePull (commands::MessagePull *pull)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processBeginTransaction (commands::TransactionInfo *info)=0` throw (exceptions::ActiveMQException)
- virtual `decaf::lang::Pointer< commands::Command > processPrepareTransaction (commands::TransactionInfo *info)=0` throw (exceptions::ActiveMQException)

- virtual **decaf::lang::Pointer**< **commands::Command** > **processCommitTransactionOnePhase** (**commands::TransactionInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processCommitTransactionTwoPhase** (**commands::TransactionInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processRollbackTransaction** (**commands::TransactionInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processWireFormat** (**commands::WireFormatInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processKeepAliveInfo** (**commands::KeepAliveInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processShutdownInfo** (**commands::ShutdownInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processFlushCommand** (**commands::FlushCommand** *command)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processBrokerInfo** (**commands::BrokerInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processRecoverTransactions** (**commands::TransactionInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processForgetTransaction** (**commands::TransactionInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processEndTransaction** (**commands::TransactionInfo** *info)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processMessageDispatchNotification** (**commands::MessageDispatchNotification** *notification)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processProducerAck** (**commands::ProducerAck** *ack)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processMessageDispatch** (**commands::MessageDispatch** *dispatch)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processControlCommand** (**commands::ControlCommand** *command)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processConnectionError** (**commands::ConnectionError** *error)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processConnectionControl** (**commands::ConnectionControl** *control)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processConsumerControl** (**commands::ConsumerControl** *control)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processBrokerError** (**commands::BrokerError** *error)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processReplayCommand** (**commands::ReplayCommand** *replay)=0 throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processResponse** (**commands::Response** *response)=0 throw (exceptions::ActiveMQException)

6.147.1 Detailed Description

Interface for an Object that can visit the various Command Objects that are sent from and to this client. The Commands themselves implement a **visit** method that is called with an instance of this interface and each one then call the appropriate **processXXX** method.

Since:

3.0

6.147.2 Constructor & Destructor Documentation

6.147.2.1 virtual activemq::state::CommandVisitor::~~CommandVisitor () [inline, virtual]

6.147.3 Member Function Documentation

6.147.3.1 virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processBeginTransaction
(commands::TransactionInfo * *info*) throw (exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1024).

6.147.3.2 virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processBrokerError
(commands::BrokerError * *error*) throw (exceptions::ActiveMQException) [pure virtual]

6.147.3.3 virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processBrokerInfo
(commands::BrokerInfo * *info*) throw (exceptions::ActiveMQException) [pure virtual]

6.147.3.4 virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processCommitTransactionOnePhase
(commands::TransactionInfo * *info*) throw (exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1024).

6.147.3.5 virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processCommitTransactionTwoPhase
(commands::TransactionInfo * *info*) throw (exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1024).

- 6.147.3.6** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processConnectionControl
 (commands::ConnectionControl * *control*) throw (
 exceptions::ActiveMQException) [pure virtual]
- 6.147.3.7** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processConnectionError
 (commands::ConnectionError * *error*) throw (
 exceptions::ActiveMQException) [pure virtual]
- 6.147.3.8** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processConnectionInfo
 (commands::ConnectionInfo * *info*) throw (
 exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1025).

- 6.147.3.9** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processConsumerControl
 (commands::ConsumerControl * *control*) throw (
 exceptions::ActiveMQException) [pure virtual]
- 6.147.3.10** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processConsumerInfo
 (commands::ConsumerInfo * *info*) throw (
 exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1025).

- 6.147.3.11** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processControlCommand
 (commands::ControlCommand * *command*) throw (
 exceptions::ActiveMQException) [pure virtual]
- 6.147.3.12** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processDestinationInfo
 (commands::DestinationInfo * *info*) throw (
 exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1025).

- 6.147.3.13** virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processEndTransaction
 (commands::TransactionInfo * *info*) throw (
 exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1025).

- 6.147.3.14** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processFlushCommand
(commands::FlushCommand * *command*) throw (
exceptions::ActiveMQException) [pure virtual]
- 6.147.3.15** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processForgetTransaction
(commands::TransactionInfo * *info*) throw (
exceptions::ActiveMQException) [pure virtual]
- 6.147.3.16** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processKeepAliveInfo
(commands::KeepAliveInfo * *info*) throw (
exceptions::ActiveMQException) [pure virtual]
- 6.147.3.17** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processMessage (commands::Message
* *send*) throw (exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1025).

- 6.147.3.18** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processMessageAck
(commands::MessageAck * *ack*) throw (exceptions::ActiveMQException
) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1025).

- 6.147.3.19** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processMessageDispatch
(commands::MessageDispatch * *dispatch*) throw (
exceptions::ActiveMQException) [pure virtual]
- 6.147.3.20** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processMessageDispatchNotification
(commands::MessageDispatchNotification * *notification*) throw (
exceptions::ActiveMQException) [pure virtual]
- 6.147.3.21** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processMessagePull
(commands::MessagePull * *pull*) throw (exceptions::ActiveMQException
) [pure virtual]
- 6.147.3.22** virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processPrepareTransaction
(commands::TransactionInfo * *info*) throw (
exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1025).

6.147.3.23 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processProducerAck
(commands::ProducerAck * ack) throw (exceptions::ActiveMQException
) [pure virtual]`

6.147.3.24 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processProducerInfo (com-
mands::ProducerInfo * info) throw (exceptions::ActiveMQException)
[pure virtual]`

Implemented in `activemq::state::ConnectionStateTracker` (p. 1026).

6.147.3.25 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processRecoverTransactions
(commands::TransactionInfo * info) throw (exceptions::ActiveMQException) [pure virtual]`

6.147.3.26 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processRemoveConnection
(commands::ConnectionId * id) throw (exceptions::ActiveMQException
) [pure virtual]`

Implemented in `activemq::state::ConnectionStateTracker` (p. 1026).

6.147.3.27 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processRemoveConsumer
(commands::ConsumerId * id) throw (exceptions::ActiveMQException
) [pure virtual]`

Implemented in `activemq::state::ConnectionStateTracker` (p. 1026).

6.147.3.28 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processRemoveDestination
(commands::DestinationInfo * info) throw (exceptions::ActiveMQException) [pure virtual]`

Implemented in `activemq::state::ConnectionStateTracker` (p. 1026).

6.147.3.29 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processRemoveInfo
(commands::RemoveInfo * info) throw (exceptions::ActiveMQException
) [pure virtual]`

Implemented in `activemq::state::CommandVisitorAdapter` (p. 896).

6.147.3.30 `virtual decaf::lang::Pointer<commands::Command>
activemq::state::CommandVisitor::processRemoveProducer
(commands::ProducerId * id) throw (exceptions::ActiveMQException)
[pure virtual]`

Implemented in `activemq::state::ConnectionStateTracker` (p. 1026).

6.147.3.31 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processRemoveSession
 (commands::SessionId * *id*) throw (exceptions::ActiveMQException)
 [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1026).

6.147.3.32 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processRemoveSubscriptionInfo
 (commands::RemoveSubscriptionInfo * *info*) throw (exceptions::ActiveMQException) [pure virtual]

6.147.3.33 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processReplayCommand
 (commands::ReplayCommand * *replay*) throw (exceptions::ActiveMQException) [pure virtual]

6.147.3.34 virtual decaf::lang::Pointer<commands::Command> ac-
 tivemq::state::CommandVisitor::processResponse (commands::Response
 * *response*) throw (exceptions::ActiveMQException) [pure virtual]

6.147.3.35 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processRollbackTransaction
 (commands::TransactionInfo * *info*) throw (exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1026).

6.147.3.36 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processSessionInfo
 (commands::SessionInfo * *info*) throw (exceptions::ActiveMQException)
 [pure virtual]

Implemented in `activemq::state::ConnectionStateTracker` (p. 1027).

6.147.3.37 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processShutdownInfo (com-
 mands::ShutdownInfo * *info*) throw (exceptions::ActiveMQException)
 [pure virtual]

6.147.3.38 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processTransactionInfo
 (commands::TransactionInfo * *info*) throw (exceptions::ActiveMQException) [pure virtual]

Implemented in `activemq::state::CommandVisitorAdapter` (p. 897).

6.147.3.39 `virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitor::processWireFormat
 (commands::WireFormatInfo * info) throw (
 exceptions::ActiveMQException) [pure virtual]`

The documentation for this class was generated from the following file:

- `src/main/activemq/state/CommandVisitor.h`

6.148 activemq::state::CommandVisitorAdapter Class Reference

Default Implementation of a **CommandVisitor** (p. 885) that returns NULL for all calls.

#include <src/main/activemq/state/CommandVisitorAdapter.h> Inheritance diagram for activemq::state::CommandVisitorAdapter:

Public Member Functions

- virtual **~CommandVisitorAdapter** ()
- virtual **decaf::lang::Pointer< commands::Command > processRemoveConnection** (commands::ConnectionId *id AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processRemoveSession** (commands::SessionId *id AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processRemoveProducer** (commands::ProducerId *id AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processRemoveConsumer** (commands::ConsumerId *id AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processDestinationInfo** (commands::DestinationInfo *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processRemoveDestination** (commands::DestinationInfo *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processRemoveSubscriptionInfo** (commands::RemoveSubscriptionInfo *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processMessage** (commands::Message *send AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processMessageAck** (commands::MessageAck *ack AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processMessagePull** (commands::MessagePull *pull AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processBeginTransaction** (commands::TransactionInfo *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processPrepareTransaction** (commands::TransactionInfo *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processCommitTransactionOnePhase** (commands::TransactionInfo *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)

- virtual **decaf::lang::Pointer**< **commands::Command** > **processCommitTransactionTwoPhase** (**commands::TransactionInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processRollbackTransaction** (**commands::TransactionInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processWireFormat** (**commands::WireFormatInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processKeepAliveInfo** (**commands::KeepAliveInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processShutdownInfo** (**commands::ShutdownInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processFlushCommand** (**commands::FlushCommand** *command AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processBrokerInfo** (**commands::BrokerInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processRecoverTransactions** (**commands::TransactionInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processForgetTransaction** (**commands::TransactionInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processEndTransaction** (**commands::TransactionInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processMessageDispatchNotification** (**commands::MessageDispatchNotification** *notification AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processProducerAck** (**commands::ProducerAck** *ack AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processMessageDispatch** (**commands::MessageDispatch** *dispatch AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processControlCommand** (**commands::ControlCommand** *command AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processConnectionError** (**commands::ConnectionError** *error AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processConnectionControl** (**commands::ConnectionControl** *control AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer**< **commands::Command** > **processConsumerControl** (**commands::ConsumerControl** *control AMQCPP_UNUSED) throw (exceptions::ActiveMQException)

- virtual **decaf::lang::Pointer< commands::Command > processBrokerError** (**commands::BrokerError** *error AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processReplayCommand** (**commands::ReplayCommand** *replay AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processResponse** (**commands::Response** *response AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processConnectionInfo** (**commands::ConnectionInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processSessionInfo** (**commands::SessionInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processProducerInfo** (**commands::ProducerInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processConsumerInfo** (**commands::ConsumerInfo** *info AMQCPP_UNUSED) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processTransactionInfo** (**commands::TransactionInfo** *info) throw (exceptions::ActiveMQException)
- virtual **decaf::lang::Pointer< commands::Command > processRemoveInfo** (**commands::RemoveInfo** *info) throw (exceptions::ActiveMQException)

6.148.1 Detailed Description

Default Implementation of a **CommandVisitor** (p.885) that returns NULL for all calls.

Since:

3.0

6.148.2 Constructor & Destructor Documentation

- 6.148.2.1 virtual
 activemq::state::CommandVisitorAdapter::~~CommandVisitorAdapter ()
 [inline, virtual]

6.148.3 Member Function Documentation

- 6.148.3.1 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processBeginTransaction
 (commands::TransactionInfo *info *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.2 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processBrokerError
 (commands::BrokerError *error *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.3 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processBrokerInfo
 (commands::BrokerInfo *info *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.4 virtual decaf::lang::Pointer<commands::Command> ac-
 tivemq::state::CommandVisitorAdapter::processCommitTransactionOnePhase
 (commands::TransactionInfo *info *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.5 virtual decaf::lang::Pointer<commands::Command> ac-
 tivemq::state::CommandVisitorAdapter::processCommitTransactionTwoPhase
 (commands::TransactionInfo *info *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.6 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processConnectionControl
 (commands::ConnectionControl *control *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.7 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processConnectionError
 (commands::ConnectionError *error *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.8 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processConnectionInfo
 (commands::ConnectionInfo *info *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.9 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processConsumerControl
 (commands::ConsumerControl *control *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.10 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processConsumerInfo
 (commands::ConsumerInfo *info *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]
- 6.148.3.11 virtual decaf::lang::Pointer<commands::Command>
 activemq::state::CommandVisitorAdapter::processControlCommand
 (commands::ControlCommand *command *AMQCPP_UNUSED*) throw (
 exceptions::ActiveMQException) [inline, virtual]

References `activemq::commands::ConnectionId::ID_CONNECTIONID`, `activemq::commands::ConsumerId::ID_CONSUMERID`, `activemq::commands::ProducerId::ID_PRODUCERID`, and `activemq::commands::SessionId::ID_SESSIONID`.

- 6.148.3.30 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processRemoveProducer`
`(commands::ProducerId *id AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.31 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processRemoveSession`
`(commands::SessionId *id AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.32 `virtual decaf::lang::Pointer<commands::Command>` `ac-`
`tivemq::state::CommandVisitorAdapter::processRemoveSubscriptionInfo`
`(commands::RemoveSubscriptionInfo *info AMQCPP_UNUSED)`
`throw (exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.33 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processReplayCommand`
`(commands::ReplayCommand *replay AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.34 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processResponse`
`(commands::Response *response AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.35 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processRollbackTransaction`
`(commands::TransactionInfo *info AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.36 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processSessionInfo`
`(commands::SessionInfo *info AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.37 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processShutdownInfo`
`(commands::ShutdownInfo *info AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`
- 6.148.3.38 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processTransactionInfo`
`(commands::TransactionInfo * info) throw (`
`exceptions::ActiveMQException) [inline, virtual]`

Implements `activemq::state::CommandVisitor` (p. 891).

References `activemq::core::ActiveMQConstants::TRANSACTION_STATE_BEGIN`,
`activemq::core::ActiveMQConstants::TRANSACTION_STATE_`

```

COMMITONEPHASE,      activemq::core::ActiveMQConstants::TRANSACTION_STATE_-
COMMITTWO PHASE,      activemq::core::ActiveMQConstants::TRANSACTION_-
STATE_END,            activemq::core::ActiveMQConstants::TRANSACTION_STATE_-
FORGET,               activemq::core::ActiveMQConstants::TRANSACTION_STATE_PREPARE,
activemq::core::ActiveMQConstants::TRANSACTION_STATE_RECOVER,      and
activemq::core::ActiveMQConstants::TRANSACTION_STATE_ROLLBACK.

```

6.148.3.39 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::state::CommandVisitorAdapter::processWireFormat`
`(commands::WireFormatInfo *info AMQCPP_UNUSED) throw (`
`exceptions::ActiveMQException) [inline, virtual]`

The documentation for this class was generated from the following file:

- `src/main/activemq/state/CommandVisitorAdapter.h`

6.149 decaf::lang::Comparable< T > Class Template Reference

This interface imposes a total ordering on the objects of each class that implements it.

```
#include <src/main/decaf/lang/Comparable.h>
```

Public Member Functions

- virtual **~Comparable** ()
- virtual int **compareTo** (const T &value) const =0
Compares this object with the specified object for order.
- virtual bool **equals** (const T &value) const =0
- virtual bool **operator==** (const T &value) const =0
Compares equality between this object and the one passed.
- virtual bool **operator<** (const T &value) const =0
Compares this object to another and returns true if this object is considered to be less than the one passed.

6.149.1 Detailed Description

```
template<typename T> class decaf::lang::Comparable< T >
```

This interface imposes a total ordering on the objects of each class that implements it. This ordering is referred to as the class's natural ordering, and the class's compareTo method is referred to as its natural comparison method.

6.149.2 Constructor & Destructor Documentation

6.149.2.1 `template<typename T> virtual decaf::lang::Comparable< T >::~~Comparable () [inline, virtual]`

6.149.3 Member Function Documentation

6.149.3.1 `template<typename T> virtual int decaf::lang::Comparable< T >::compareTo (const T & value) const [pure virtual]`

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

In the foregoing description, the notation `sgn(expression)` designates the mathematical signum function, which is defined to return one of -1, 0, or 1 according to whether the value of expression is negative, zero or positive. The implementor must ensure `sgn(x.compareTo(y)) == -sgn(y.compareTo(x))` for all x and y. (This implies that `x.compareTo(y)` must throw an exception iff `y.compareTo(x)` throws an exception.)

The implementor must also ensure that the relation is transitive: `(x.compareTo(y)>0 && y.compareTo(z)>0)` implies `x.compareTo(z)>0`.

Finally, the implementer must ensure that `x.compareTo(y)==0` implies that `sgn(x.compareTo(z)) == sgn(y.compareTo(z))`, for all `z`.

It is strongly recommended, but not strictly required that `(x.compareTo(y)==0) == (x.equals(y))`. Generally speaking, any class that implements the **Comparable** (p. 899) interface and violates this condition should clearly indicate this fact. The recommended language is "Note: this class has a natural ordering that is inconsistent with equals."

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Implemented in **decaf::lang::Boolean** (p. 574), **decaf::lang::Byte** (p. 666), **decaf::lang::Character** (p. 803), **decaf::lang::Double** (p. 1234), **decaf::lang::Float** (p. 1331), **decaf::lang::Integer** (p. 1431), **decaf::lang::Long** (p. 1655), and **decaf::lang::Short** (p. 2323).

6.149.3.2 `template<typename T> virtual bool decaf::lang::Comparable< T >::equals (const T & value) const` [pure virtual]

Returns:

true if this value is considered equal to the passed value.

Implemented in **decaf::lang::Boolean** (p. 575), **decaf::lang::Byte** (p. 667), **decaf::lang::Character** (p. 804), **decaf::lang::Double** (p. 1236), **decaf::lang::Float** (p. 1332), **decaf::lang::Integer** (p. 1432), **decaf::lang::Long** (p. 1656), and **decaf::lang::Short** (p. 2324).

6.149.3.3 `template<typename T> virtual bool decaf::lang::Comparable< T >::operator< (const T & value) const` [pure virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implemented in **decaf::lang::Boolean** (p. 575), **decaf::lang::Byte** (p. 668), **decaf::lang::Character** (p. 806), **decaf::lang::Double** (p. 1238), **decaf::lang::Float** (p. 1334), **decaf::lang::Integer** (p. 1435), **decaf::lang::Long** (p. 1659), and **decaf::lang::Short** (p. 2325).

6.149.3.4 `template<typename T> virtual bool decaf::lang::Comparable< T >::operator==(const T & value) const` [pure virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implemented in `decaf::lang::Boolean` (p. 576), `decaf::lang::Byte` (p. 669), `decaf::lang::Character` (p. 806), `decaf::lang::Double` (p. 1238), `decaf::lang::Float` (p. 1335), `decaf::lang::Integer` (p. 1435), `decaf::lang::Long` (p. 1659), and `decaf::lang::Short` (p. 2326).

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Comparable.h`

6.150 decaf::util::Comparator< T > Class Template Reference

A comparison function, which imposes a total ordering on some collection of objects.

```
#include <src/main/decaf/util/Comparator.h>
```

Public Member Functions

- virtual **~Comparator** ()
- virtual bool **operator**() (const T &left, const T &right) const =0
*Implementation of the Binary function interface as a means of allowing a **Comparator** (p. 902) to be passed to an STL **Map** (p. 1689) for use as the sorting criteria.*
- virtual int **compare** (const T &o1, const T &o2) const =0
Compares its two arguments for order.

6.150.1 Detailed Description

```
template<typename T> class decaf::util::Comparator< T >
```

A comparison function, which imposes a total ordering on some collection of objects. Comparators can be passed to a sort method (such as Collections.sort) to allow precise control over the sort order. Comparators can also be used to control the order of certain data structures.

The ordering imposed by a **Comparator** (p. 902) c on a set of elements S is said to be consistent with equals if and only if (compare(e1, e2) == 0) has the same boolean value as (e1 == e2) for every e1 and e2 in S.

6.150.2 Constructor & Destructor Documentation

6.150.2.1 template<typename T> virtual decaf::util::Comparator< T
 >::~Comparator () [inline, virtual]

6.150.3 Member Function Documentation

6.150.3.1 template<typename T> virtual int decaf::util::Comparator< T
 >::compare (const T & o1, const T & o2) const [pure virtual]

Compares its two arguments for order. Returns a negative integer, zero, or a positive integer as the first argument is less than, equal to, or greater than the second.

The implementor must ensure that sgn(compare(x, y)) == -sgn(compare(y, x)) for all x and y. (This implies that compare(x, y) must throw an exception if and only if compare(y, x) throws an exception.)

The implementor must also ensure that the relation is transitive: ((compare(x, y)>0) && (compare(y, z)>0)) implies compare(x, z)>0.

Finally, the implementer must ensure that compare(x, y)==0 implies that sgn(compare(x, z))==sgn(compare(y, z)) for all z.

It is generally the case, but not strictly required that `(compare(x, y)==0) == (x == y)`. Generally speaking, any comparator that violates this condition should clearly indicate this fact. The recommended language is "Note: this comparator imposes orderings that are inconsistent with equals."

Parameters:

- o1* - the first object to be compared
- o2* - the second object to be compared

Returns:

a negative integer, zero, or a positive integer as the first argument is less than, equal to, or greater than the second.

6.150.3.2 `template<typename T> virtual bool decaf::util::Comparator< T >::operator() (const T & left, const T & right) const` [pure virtual]

Implementation of the Binary function interface as a means of allowing a **Comparator** (p.902) to be passed to an STL **Map** (p.1689) for use as the sorting criteria.

Parameters:

- left* - the Left hand side operand.
- right* - the Right hand side operand.

Returns:

true if the value of left is less than the value of right.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Comparator.h`

6.151 activemq::util::CompositeData Class Reference

Represents a Composite URI.

```
#include <src/main/activemq/util/CompositeData.h>
```

Public Member Functions

- **CompositeData** ()
- virtual **~CompositeData** ()
- **StlList< URI > & getComponents** ()
- const **StlList< URI > & getComponents** () const
- void **setComponents** (const **StlList< URI > &components**)
- std::string **getFragment** () const
- void **setFragment** (const std::string &fragment)
- const **Properties & getParameters** () const
- void **setParameters** (const **Properties ¶meters**)
- std::string **getScheme** () const
- void **setScheme** (const std::string &scheme)
- std::string **getPath** () const
- void **setPath** (const std::string &path)
- std::string **getHost** () const
- void **setHost** (const std::string &host)
- **URI toURI** () const throw (decaf::net::URISyntaxException)

6.151.1 Detailed Description

Represents a Composite URI.

Since:

3.0

6.151.2 Constructor & Destructor Documentation

6.151.2.1 `activemq::util::CompositeData::CompositeData ()`

6.151.2.2 `virtual activemq::util::CompositeData::~~CompositeData ()` [virtual]

6.151.3 Member Function Documentation

6.151.3.1 `const StlList<URI>& activemq::util::CompositeData::getComponents ()`
const [inline]

6.151.3.2 `StlList<URI>& activemq::util::CompositeData::getComponents ()`
[inline]

6.151.3.3 `std::string activemq::util::CompositeData::getFragment ()` const
[inline]

6.151.3.4 `std::string activemq::util::CompositeData::getHost ()` const [inline]

6.151.3.5 `const Properties& activemq::util::CompositeData::getParameters ()`
const [inline]

6.151.3.6 `std::string activemq::util::CompositeData::getPath ()` const [inline]

6.151.3.7 `std::string activemq::util::CompositeData::getScheme ()` const [inline]

6.151.3.8 `void activemq::util::CompositeData::setComponents (const StlList< URI`
> & *components*) [inline]

6.151.3.9 `void activemq::util::CompositeData::setFragment (const std::string &`
fragment) [inline]

6.151.3.10 `void activemq::util::CompositeData::setHost (const std::string & host)`
[inline]

6.151.3.11 `void activemq::util::CompositeData::setParameters (const Properties &`
parameters) [inline]

6.151.3.12 `void activemq::util::CompositeData::setPath (const std::string & path)`
[inline]

6.151.3.13 `void activemq::util::CompositeData::setScheme (const std::string &`
scheme) [inline]

6.151.3.14 `URI activemq::util::CompositeData::toURI ()` const throw (
`decaf::net::URISyntaxException`)

The documentation for this class was generated from the following file:

- `src/main/activemq/util/CompositeData.h`

6.152 activemq::threads::CompositeTask Class Reference

Represents a single task that can be part of a set of Tasks that are contained in a `CompositeTaskRunner` (p. 908).

#include <src/main/activemq/threads/CompositeTask.h> Inheritance diagram for `activemq::threads::CompositeTask`:

Public Member Functions

- virtual `~CompositeTask ()`
- virtual `bool isPending () const =0`

*Indicates whether this task has any pending work that needs to be done, if not then it is skipped and the next **Task** (p. 2520) in the `CompositeTaskRunner`'s list of tasks is checked, if none of the tasks have any pending work to do, then the runner can go to sleep until it awakened by a call to `wakeup`.*

6.152.1 Detailed Description

Represents a single task that can be part of a set of Tasks that are contained in a `CompositeTaskRunner` (p. 908).

Since:

3.0

6.152.2 Constructor & Destructor Documentation

6.152.2.1 virtual `activemq::threads::CompositeTask::~~CompositeTask ()` [inline, virtual]

6.152.3 Member Function Documentation

6.152.3.1 virtual `bool activemq::threads::CompositeTask::isPending () const` [pure virtual]

Indicates whether this task has any pending work that needs to be done, if not then it is skipped and the next **Task** (p. 2520) in the `CompositeTaskRunner`'s list of tasks is checked, if none of the tasks have any pending work to do, then the runner can go to sleep until it awakened by a call to `wakeup`.

Since:

3.0

Implemented in `activemq::transport::failover::BackupTransportPool` (p. 505), `activemq::transport::failover::CloseTransportsTask` (p. 841), and `activemq::transport::failover::FailoverTransport` (p. 1302).

The documentation for this class was generated from the following file:

- `src/main/activemq/threads/CompositeTask.h`

6.153 activemq::threads::CompositeTaskRunner Class Reference

A **Task** (p. 2520) Runner that can contain one or more CompositeTasks that are each checked for pending work and run if any is present in the order that the tasks were added.

#include <src/main/activemq/threads/CompositeTaskRunner.h> Inheritance diagram for activemq::threads::CompositeTaskRunner:

Public Member Functions

- **CompositeTaskRunner** ()
- virtual **~CompositeTaskRunner** ()
- void **addTask** (CompositeTask *task)
*Adds a new **CompositeTask** (p. 906) to the Set of Tasks that this class manages.*
- void **removeTask** (CompositeTask *task)
*Removes a **CompositeTask** (p. 906) that was added previously.*
- virtual void **shutdown** (unsigned int timeout)
Shutdown after a timeout, does not guarantee that the task's iterate method has completed and the thread halted.
- virtual void **shutdown** ()
Shutdown once the task has finished and the TaskRunner's thread has exited.
- virtual void **wakeup** ()
*Signal the **TaskRunner** (p. 2522) to wakeup and execute another iteration cycle on the task, the **Task** (p. 2520) instance will be run until its iterate method has returned false indicating it is done.*

Protected Member Functions

- virtual void **run** ()
Run method - called by the Thread class in the context of the thread.
- virtual bool **iterate** ()
Perform one iteration of work, returns true if the task needs to run again to complete or false to indicate that the task is now complete.

6.153.1 Detailed Description

A **Task** (p. 2520) Runner that can contain one or more CompositeTasks that are each checked for pending work and run if any is present in the order that the tasks were added.

Since:

3.0

6.153.2 Constructor & Destructor Documentation

6.153.2.1 `activemq::threads::CompositeTaskRunner::CompositeTaskRunner ()`

6.153.2.2 `virtual
activemq::threads::CompositeTaskRunner::~~CompositeTaskRunner ()
[virtual]`

6.153.3 Member Function Documentation

6.153.3.1 `void activemq::threads::CompositeTaskRunner::addTask (CompositeTask
* task)`

Adds a new **CompositeTask** (p. 906) to the Set of Tasks that this class manages.

Parameters:

task - Pointer to a **CompositeTask** (p. 906) instance.

6.153.3.2 `virtual bool activemq::threads::CompositeTaskRunner::iterate ()
[protected, virtual]`

Perform one iteration of work, returns true if the task needs to run again to complete or false to indicate that the task is now complete.

Returns:

true if the task should be run again or false if the task has completed and the runner should wait for a wakeup call.

Implements **activemq::threads::Task** (p. 2520).

6.153.3.3 `void activemq::threads::CompositeTaskRunner::removeTask
(CompositeTask * task)`

Removes a **CompositeTask** (p. 906) that was added previously.

Parameters:

task - Pointer to a **CompositeTask** (p. 906) instance.

6.153.3.4 `virtual void activemq::threads::CompositeTaskRunner::run ()
[protected, virtual]`

Run method - called by the Thread class in the context of the thread.

Implements **decaf::lang::Runnable** (p. 2256).

6.153.3.5 `virtual void activemq::threads::CompositeTaskRunner::shutdown ()
[virtual]`

Shutdown once the task has finished and the TaskRunner's thread has exited.

Implements **activemq::threads::TaskRunner** (p. 2522).

6.153.3.6 **virtual void activemq::threads::CompositeTaskRunner::shutdown**
 (unsigned int *timeout*) [virtual]

Shutdown after a timeout, does not guarantee that the task's iterate method has completed and the thread halted.

Parameters:

timeout - Time in Milliseconds to wait for the task to stop.

Implements **activemq::threads::TaskRunner** (p. 2522).

6.153.3.7 **virtual void activemq::threads::CompositeTaskRunner::wakeup ()**
 [virtual]

Signal the **TaskRunner** (p. 2522) to wakeup and execute another iteration cycle on the task, the **Task** (p. 2520) instance will be run until its iterate method has returned false indicating it is done.

Implements **activemq::threads::TaskRunner** (p. 2523).

The documentation for this class was generated from the following file:

- src/main/activemq/threads/**CompositeTaskRunner.h**

6.154 activemq::transport::CompositeTransport Class Reference

A Composite **Transport** (p. 2608) is a **Transport** (p. 2608) implementation that is composed of several Transports.

#include <src/main/activemq/transport/CompositeTransport.h> Inheritance diagram for activemq::transport::CompositeTransport:

Public Member Functions

- virtual **~CompositeTransport** ()
- virtual void **addURI** (const **List**< **URI** > &uris)=0
*Add a URI to the list of URI's that will represent the set of Transports that this **Transport** (p. 2608) is a composite of.*
- virtual void **removeURI** (const **List**< **URI** > &uris)=0
*Remove a URI from the set of URI's that represents the set of Transports that this **Transport** (p. 2608) is composed of, removing a URI for which the composite has created a connected **Transport** (p. 2608) should result in that **Transport** (p. 2608) being disposed of.*

6.154.1 Detailed Description

A Composite **Transport** (p. 2608) is a **Transport** (p. 2608) implementation that is composed of several Transports. The composition could be such that only one **Transport** (p. 2608) exists for each URI that is composed or there could be many active Transports working at once.

Since:

3.0

6.154.2 Constructor & Destructor Documentation

- 6.154.2.1** virtual **activemq::transport::CompositeTransport::~CompositeTransport** () [inline, virtual]

6.154.3 Member Function Documentation

- 6.154.3.1** virtual void **activemq::transport::CompositeTransport::addURI** (const **List**< **URI** > & *uris*) [pure virtual]

Add a URI to the list of URI's that will represent the set of Transports that this **Transport** (p. 2608) is a composite of.

Parameters:

uris The new URI set to add to the set this composite maintains.

Implemented in **activemq::transport::failover::FailoverTransport** (p. 1299).

6.154.3.2 virtual void activemq::transport::CompositeTransport::removeURI (const List< URI > & *uris*) [pure virtual]

Remove a URI from the set of URI's that represents the set of Transports that this **Transport** (p. 2608) is composed of, removing a URI for which the composite has created a connected **Transport** (p. 2608) should result in that **Transport** (p. 2608) being disposed of.

Parameters:

uris The new URI set to remove to the set this composite maintains.

Implemented in **activemq::transport::failover::FailoverTransport** (p. 1303).

The documentation for this class was generated from the following file:

- src/main/activemq/transport/**CompositeTransport.h**

6.155 decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR > Class Template Reference

Interface for a **Map** (p. 1689) type that provides additional **atomic** (p. 118) `putIfAbsent`, `remove`, and `replace` methods alongside the already available **Map** (p. 1689) interface.

#include <src/main/decaf/util/concurrent/ConcurrentMap.h> Inheritance diagram for `decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR >`:

Public Member Functions

- virtual `~ConcurrentMap ()`
- virtual `bool putIfAbsent (const K &key, const V &value)=0 throw (decaf::lang::exceptions::UnsupportedOperationException)`

If the specified key is not already associated with a value, associate it with the given value.

- virtual `bool remove (const K &key, const V &value)=0`

Remove entry for key only if currently mapped to given value.

- virtual `bool replace (const K &key, const V &oldValue, const V &newValue)=0`

Replace entry for key only if currently mapped to given value.

- virtual `V replace (const K &key, const V &value)=0 throw (decaf::lang::exceptions::NoSuchElementException)`

Replace entry for key only if currently mapped to some value.

6.155.1 Detailed Description

```
template<typename K, typename V, typename COMPARATOR> class  
decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR >
```

Interface for a **Map** (p. 1689) type that provides additional **atomic** (p. 118) `putIfAbsent`, `remove`, and `replace` methods alongside the already available **Map** (p. 1689) interface.

Since:

1.0

6.155.2 Constructor & Destructor Documentation

6.155.2.1 `template<typename K, typename V, typename COMPARATOR>
virtual decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR
>::~~ConcurrentMap () [inline, virtual]`

6.155.3 Member Function Documentation

6.155.3.1 `template<typename K, typename V, typename COMPARATOR>
virtual bool decaf::util::concurrent::ConcurrentMap< K, V,
COMPARATOR >::putIfAbsent (const K & key, const V & value)
throw (decaf::lang::exceptions::UnsupportedOperationException) [pure
virtual]`

If the specified key is not already associated with a value, associate it with the given value. This is equivalent to

```
if( !map.containsKey( key ) ) {
    map.put( key, value );
    return true;
} else {
    return false;
}
```

except that the action is performed atomically.

Parameters:

key The key to map the value to.

value The value to map to the given key.

Returns:

true if the put operation was performed otherwise return false which indicates there was a value previously mapped to the key.

Exceptions:

UnsupportedOperationException if the put operation is not supported by this map

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 927), and `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 927).

6.155.3.2 `template<typename K, typename V, typename COMPARATOR> virtual
bool decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR
>::remove (const K & key, const V & value) [pure virtual]`

Remove entry for key only if currently mapped to given value. Acts as

```
if( ( map.containsKey( key ) && ( map.get( key ) == value ) ) ) {
    map.remove( key );
    return true;
} else {
    return false;
}
```

except that the action is performed atomically.

Parameters:

key key with which the specified value is associated.

value value associated with the specified key.

Returns:

true if the value was removed, false otherwise

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COM-
PARATOR >` (p. 928), `decaf::util::concurrent::ConcurrentStlMap<
Pointer< TransactionId >, Pointer< TransactionState >, Transac-
tionId::COMPARATOR >` (p. 928), `decaf::util::concurrent::ConcurrentStlMap<
Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR
>` (p. 928), `decaf::util::concurrent::ConcurrentStlMap< Pointer< Connec-
tionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR
>` (p. 928), `decaf::util::concurrent::ConcurrentStlMap< Pointer< Con-
sumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR
>` (p. 928), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId
>, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 928), and
`decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer<
ProducerState >, ProducerId::COMPARATOR >` (p. 928).

6.155.3.3 `template<typename K, typename V, typename COMPARATOR>
virtual V decaf::util::concurrent::ConcurrentMap< K, V,
COMPARATOR >::replace (const K & key, const V & value) throw (
decaf::lang::exceptions::NoSuchElementException) [pure virtual]`

Replace entry for key only if currently mapped to some value. Acts as

```
if( ( map.containsKey( key ) ) ) {
    return map.put( key, value );
} else {
    throw NoSuchElementException(...);
};
```

except that the action is performed atomically.

Parameters:

key key with which the specified value is associated.

value value to be associated with the specified key.

Returns:

copy of the previous value associated with specified key, or throws an `NoSuchElementException` if there was no mapping for key.

Exceptions:

NoSuchElementException if there was no previous mapping.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 929), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 929), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 929), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 929), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 929), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 929), and `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 929).

6.155.3.4 `template<typename K, typename V, typename COMPARATOR> virtual bool decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR >::replace (const K & key, const V & oldValue, const V & newValue) [pure virtual]`

Replace entry for key only if currently mapped to given value. Acts as

```
if( ( map.containsKey( key ) && ( map.get( key ) == oldValue ) ) ) {
    map.put( key, newValue );
    return true;
} else {
    return false;
}
```

except that the action is performed atomically.

Parameters:

key key with which the specified value is associated.

oldValue value expected to be associated with the specified key.

newValue value to be associated with the specified key.

Returns:

true if the value was replaced

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 930), and `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 930).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/ConcurrentMap.h`

6.156 decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > Class Template Reference

Map (p.1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map.

#include <src/main/decaf/util/concurrent/ConcurrentStlMap.h> Inheritance diagram for decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >:

Public Member Functions

- **ConcurrentStlMap** ()
Default constructor - does nothing.
- **ConcurrentStlMap** (const **ConcurrentStlMap** &source)
Copy constructor - copies the content of the given map into this one.
- **ConcurrentStlMap** (const **Map**< K, V, COMPARATOR > &source)
Copy constructor - copies the content of the given map into this one.
- virtual ~**ConcurrentStlMap** ()
- virtual bool **equals** (const **ConcurrentStlMap** &source) const
Comparison, equality is dependent on the method of determining if the element are equal.
Parameters:
source - **Map** (p.1689) to compare to this one.
Returns:
*true if the **Map** (p.1689) passed is equal in value to this one.*
- virtual bool **equals** (const **Map**< K, V, COMPARATOR > &source) const
- virtual void **copy** (const **ConcurrentStlMap** &source)
Copies the content of the source map into this map.
Erases all existing data in this map.
Parameters:
source The source object to copy from.
- virtual void **copy** (const **Map**< K, V, COMPARATOR > &source)
- virtual void **clear** () throw (decaf::lang::exceptions::UnsupportedOperationException)
Removes all keys and values from this map.
Exceptions:
***UnsupportedOperationException** if this map is unmodifiable.*
- virtual bool **containsKey** (const K &key) const
Indicates whether or this map contains a value for the given key.
Parameters:
key The key to look up.
Returns:
true if this map contains the value, otherwise false.

- virtual bool **containsValue** (const V &value) const
Indicates whether or this map contains a value for the given value, i.e. they are equal, this is done by operator== so the types must pass equivalence testing in this manner.
Parameters:
value The Value to look up.
Returns:
true if this map contains the value, otherwise false.
- virtual bool **isEmpty** () const
Returns:
*if the **Map** (p. 1689) contains any element or not, TRUE or FALSE*
- virtual std::size_t **size** () const
Returns:
The number of elements (key/value pairs) in this map.
- virtual V & **get** (const K &key) throw (lang::exceptions::NoSuchElementException)
*Gets the value mapped to the specified key in the **Map** (p. 1689).
If there is no element in the map whose key is equivalent to the key provided then a *NoSuchElementException* is thrown.*
Parameters:
key The search key.
Returns:
A reference to the value for the given key.
Exceptions:
***NoSuchElementException** if the key requests doesn't exist in the **Map** (p. 1689).*
- virtual const V & **get** (const K &key) const throw (lang::exceptions::NoSuchElementException)
*Gets the value mapped to the specified key in the **Map** (p. 1689).
If there is no element in the map whose key is equivalent to the key provided then a *NoSuchElementException* is thrown.*
Parameters:
key The search key.
Returns:
A {const} reference to the value for the given key.
Exceptions:
***NoSuchElementException** if the key requests doesn't exist in the **Map** (p. 1689).*
- virtual void **put** (const K &key, const V &value) throw (decaf::lang::exceptions::UnsupportedOperationException)
Sets the value for the specified key.
Parameters:
key The target key.
value The value to be set.
Exceptions:
***UnsupportedOperationException** if this map is unmodifiable.*

- virtual void **putAll** (const **ConcurrentStlMap**< K, V, COMPARATOR > &other) throw (decaf::lang::exceptions::UnsupportedOperationException)

*Stores a copy of the Mappings contained in the other **Map** (p. 1689) in this one.*

Parameters:

*other A **Map** (p. 1689) instance whose elements are to all be inserted in this **Map** (p. 1689).*

Exceptions:

UnsupportedOperationException *If the implementing class does not support the putAll operation.*

- virtual void **putAll** (const **Map**< K, V, COMPARATOR > &other) throw (decaf::lang::exceptions::UnsupportedOperationException)

- virtual V **remove** (const K &key) throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)

Removes the value (key/value pair) for the specified key from the map, returns a copy of the value that was mapped to the key.

Parameters:

key The search key.

Returns:

a copy of the element that was previously mapped to the given key

Exceptions:

NoSuchElementException *if this key is not in the **Map** (p. 1689).*
UnsupportedOperationException *if this map is unmodifiable.*

- virtual std::vector< K > **keySet** () const

*Returns a **Set** (p. 2320) view of the mappings contained in this map.*

*The set is backed by the map, so changes to the map are reflected in the set, and vice-versa. If the map is modified while an iteration over the set is in progress (except through the iterator's own remove operation, or through the setValue operation on a map entry returned by the iterator) the results of the iteration are undefined. The set supports element removal, which removes the corresponding mapping from the map, via the **Iterator.remove** (p. 1490), **Set.remove** (p. 130), **removeAll**, **retainAll** and **clear** operations. It does not support the **add** or **addAll** operations.*

Returns:

the entire set of keys in this map as a std::vector.

- virtual std::vector< V > **values** () const

Returns:

the entire set of values in this map as a std::vector.

- bool **putIfAbsent** (const K &key, const V &value) throw (decaf::lang::exceptions::UnsupportedOperationException)

If the specified key is not already associated with a value, associate it with the given value.

- bool **remove** (const K &key, const V &value)

Remove entry for key only if currently mapped to given value.

- bool **replace** (const K &key, const V &oldValue, const V &newValue)

Replace entry for key only if currently mapped to given value.

- V **replace** (const K &key, const V &value) throw (decaf::lang::exceptions::NoSuchElementException)

Replace entry for key only if currently mapped to some value.

- virtual void **lock** () throw (lang::Exception)

Locks the object.

- virtual void **unlock** () throw (lang::Exception)

Unlocks the object.

- virtual void **wait** () throw (lang::Exception)

Waits on a signal from this object, which is generated by a call to Notify.

- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)

Waits on a signal from this object, which is generated by a call to Notify.

- virtual void **notify** () throw (lang::Exception)

Signals a waiter on this object that it can now wake up and continue.

- virtual void **notifyAll** () throw (lang::Exception)

Signals the waiters on this object that it can now wake up and continue.

6.156.1 Detailed Description

template<typename K, typename V, typename COMPARATOR = std::less<K>>
 class decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >

Map (p.1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map. This version of **Map** (p.1689) extends the **ConcurrentMap** (p.913) interface and implements all the methods defined in that interface. Unlike a Java ConcurrentHashMap this implementations synchronizes all methods such that any call to this class will block if another thread is already holding a lock, much like the Java HashTable.

Since:

1.0

6.156.2 Constructor & Destructor Documentation

6.156.2.1 template<typename K, typename V, typename COMPARATOR
 = std::less<K>> decaf::util::concurrent::ConcurrentStlMap< K, V,
 COMPARATOR >::ConcurrentStlMap () [inline]

Default constructor - does nothing.

6.156.2.2 `template<typename K, typename V, typename COMPARETOR
= std::less<K>> decaf::util::concurrent::ConcurrentStlMap< K, V,
COMPARETOR >::ConcurrentStlMap (const ConcurrentStlMap< K, V,
COMPARETOR > & source) [inline]`

Copy constructor - copies the content of the given map into this one.

Parameters:

source The source map.

6.156.2.3 `template<typename K, typename V, typename COMPARETOR
= std::less<K>> decaf::util::concurrent::ConcurrentStlMap< K, V,
COMPARETOR >::ConcurrentStlMap (const Map< K, V,
COMPARETOR > & source) [inline]`

Copy constructor - copies the content of the given map into this one.

Parameters:

source The source map.

6.156.2.4 `template<typename K, typename V, typename COMPARETOR =
std::less<K>> virtual decaf::util::concurrent::ConcurrentStlMap< K, V,
COMPARETOR >::~~ConcurrentStlMap () [inline, virtual]`

6.156.3 Member Function Documentation

6.156.3.1 `template<typename K, typename V, typename COMPARETOR =
std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap<
K, V, COMPARETOR >::clear () throw (de-
cafe::lang::exceptions::UnsupportedOperationException) [inline,
virtual]`

Removes all keys and values from this map.

Exceptions:

UnsupportedOperationException if this map is unmodifiable.

Implements `decaf::util::Map< K, V, COMPARETOR >` (p. 1690).

Referenced by `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARETOR >::copy()`.

6.156.3.2 `template<typename K, typename V, typename COMPARETOR =
std::less<K>> virtual bool decaf::util::concurrent::ConcurrentStlMap<
K, V, COMPARETOR >::containsKey (const K & key) const [inline,
virtual]`

Indicates whether or this map contains a value for the given key.

Parameters:

key The key to look up.

Returns:

true if this map contains the value, otherwise false.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1691).

Referenced by decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::equals(), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::putIfAbsent(), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::remove(), and decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::replace().

6.156.3.3 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::containsValue (const V & value) const [inline, virtual]`

Indicates whether or this map contains a value for the given value, i.e.

they are equal, this is done by operator== so the types must pass equivalence testing in this manner.

Parameters:

value The Value to look up.

Returns:

true if this map contains the value, otherwise false.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1692).

6.156.3.4 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::copy (const Map< K, V, COMPARATOR > & source) [inline, virtual]`

6.156.3.5 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::copy (const ConcurrentStlMap< K, V, COMPARATOR > & source) [inline, virtual]`

Copies the content of the source map into this map.

Erases all existing data in this map.

Parameters:

source The source object to copy from.

Implements **decaf::util::Map**< **K**, **V**, **COMPARATOR** > (p. 1693).

Referenced by **decaf::util::concurrent::ConcurrentStlMap**< **Pointer**< **ProducerId** >, **Pointer**< **ProducerState** >, **ProducerId::COMPARATOR** >::**ConcurrentStlMap**() .

6.156.3.6 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::equals (const Map< K, V, COMPARATOR > & source) const [inline, virtual]`

6.156.3.7 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::equals (const ConcurrentStlMap< K, V, COMPARATOR > & source) const [inline, virtual]`

Comparison, equality is dependent on the method of determining if the element are equal.

Parameters:

source - **Map** (p. 1689) to compare to this one.

Returns:

true if the **Map** (p. 1689) passed is equal in value to this one.

Implements **decaf::util::Map**< **K**, **V**, **COMPARATOR** > (p. 1693).

6.156.3.8 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual const V& decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::get (const K & key) const throw (lang::exceptions::NoSuchElementException) [inline, virtual]`

Gets the value mapped to the specified key in the **Map** (p. 1689).

If there is no element in the map whose key is equivalent to the key provided then a **NoSuchElementException** is thrown.

Parameters:

key The search key.

Returns:

A {const} reference to the value for the given key.

Exceptions:

NoSuchElementException if the key requests doesn't exist in the **Map** (p. 1689).

Implements **decaf::util::Map**< **K**, **V**, **COMPARATOR** > (p. 1693).

6.156.3.9 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual V& decaf::util::concurrent::ConcurrentStlMap<
K, V, COMPARATOR >::get (const K & key) throw (
lang::exceptions::NoSuchElementException) [inline, virtual]`

Gets the value mapped to the specified key in the **Map** (p. 1689).

If there is no element in the map whose key is equivalent to the key provided then a `NoSuchElementException` is thrown.

Parameters:

key The search key.

Returns:

A reference to the value for the given key.

Exceptions:

NoSuchElementException if the key requests doesn't exist in the **Map** (p. 1689).

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1694).

6.156.3.10 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual bool decaf::util::concurrent::ConcurrentStlMap<
K, V, COMPARATOR >::isEmpty () const [inline, virtual]`

Returns:

if the **Map** (p. 1689) contains any element or not, **TRUE** or **FALSE**

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1695).

6.156.3.11 `template<typename K, typename V, typename
COMPARATOR = std::less<K>> virtual std::vector<K>
decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR
>::keySet () const [inline, virtual]`

Returns a **Set** (p. 2320) view of the mappings contained in this map.

The set is backed by the map, so changes to the map are reflected in the set, and vice-versa. If the map is modified while an iteration over the set is in progress (except through the iterator's own remove operation, or through the `setValue` operation on a map entry returned by the iterator) the results of the iteration are undefined. The set supports element removal, which removes the corresponding mapping from the map, via the **Iterator.remove** (p. 1490), **Set.remove** (p. 130), **removeAll**, **retainAll** and **clear** operations. It does not support the **add** or **addAll** operations.

Returns:

the entire set of keys in this map as a `std::vector`.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1696).

6.156.3.12 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap<K, V, COMPARATOR >::lock () throw (lang::Exception) [inline, virtual]`

Locks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2508).

6.156.3.13 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap<K, V, COMPARATOR >::notify () throw (lang::Exception) [inline, virtual]`

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2510).

6.156.3.14 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap<K, V, COMPARATOR >::notifyAll () throw (lang::Exception) [inline, virtual]`

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2511).

6.156.3.15 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap<K, V, COMPARATOR >::put (const K & key, const V & value) throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

Sets the value for the specified key.

Parameters:

key The target key.

value The value to be set.

Exceptions:

UnsupportedOperationException if this map is unmodifiable.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1697).

Referenced by decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::putAll(), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::putIfAbsent(), and decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::replace().

- 6.156.3.16** `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::putAll (const Map< K, V, COMPARATOR > & other) throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`
- 6.156.3.17** `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::putAll (const ConcurrentStlMap< K, V, COMPARATOR > & other) throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

Stores a copy of the Mappings contained in the other **Map** (p. 1689) in this one.

Parameters:

other A **Map** (p. 1689) instance whose elements are to all be inserted in this **Map** (p. 1689).

Exceptions:

UnsupportedOperationException If the implementing class does not support the putAll operation.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1697).

Referenced by decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::copy().

- 6.156.3.18** `template<typename K, typename V, typename COMPARATOR = std::less<K>> bool decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::putIfAbsent (const K & key, const V & value) throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

If the specified key is not already associated with a value, associate it with the given value. This is equivalent to

```
if( !map.containsKey( key ) ) {
    map.put( key, value );
    return true;
} else {
```

```

        return false;
    }

```

except that the action is performed atomically.

Parameters:

key The key to map the value to.

value The value to map to the given key.

Returns:

true if the put operation was performed otherwise return false which indicates there was a value previously mapped to the key.

Exceptions:

UnsupportedOperationException if the put operation is not supported by this map

Implements `decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR >` (p. 914).

6.156.3.19 `template<typename K, typename V, typename COMPARATOR = std::less<K>> bool decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >::remove (const K & key, const V & value) [inline, virtual]`

Remove entry for key only if currently mapped to given value. Acts as

```

if( map.containsKey( key ) && ( map.get( key ) == value ) ) {
    map.remove( key );
    return true;
} else {
    return false;
}

```

except that the action is performed atomically.

Parameters:

key key with which the specified value is associated.

value value associated with the specified key.

Returns:

true if the value was removed, false otherwise

Implements `decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR >` (p. 915).

6.156.3.20 `template<typename K, typename V, typename COMPARATOR =
 std::less<K>> virtual V decaf::util::concurrent::ConcurrentStlMap<
 K, V, COMPARATOR >::remove (const K & key)
 throw (decaf::lang::exceptions::NoSuchElementException,
 decaf::lang::exceptions::UnsupportedOperationException) [inline,
 virtual]`

Removes the value (key/value pair) for the specified key from the map, returns a copy of the value that was mapped to the key.

Parameters:

key The search key.

Returns:

a copy of the element that was previously mapped to the given key

Exceptions:

NoSuchElementException if this key is not in the **Map** (p. 1689).

UnsupportedOperationException if this map is unmodifiable.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1698).

6.156.3.21 `template<typename K, typename V, typename COMPARATOR =
 std::less<K>> V decaf::util::concurrent::ConcurrentStlMap< K, V,
 COMPARATOR >::replace (const K & key, const V & value) throw (
 decaf::lang::exceptions::NoSuchElementException) [inline, virtual]`

Replace entry for key only if currently mapped to some value. Acts as

```
if( map.containsKey( key ) ) {
    return map.put( key, value );
} else {
    throw NoSuchElementException(...);
};
```

except that the action is performed atomically.

Parameters:

key key with which the specified value is associated.

value value to be associated with the specified key.

Returns:

copy of the previous value associated with specified key, or throws an *NoSuchElementException* if there was no mapping for key.

Exceptions:

NoSuchElementException if there was no previous mapping.

Implements **decaf::util::concurrent::ConcurrentMap< K, V, COMPARATOR >** (p. 915).

6.156.3.22 `template<typename K, typename V, typename COMPARTOR = std::less<K>> bool decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARTOR >::replace (const K & key, const V & oldValue, const V & newValue) [inline, virtual]`

Replace entry for key only if currently mapped to given value. Acts as

```
if( map.containsKey( key ) && ( map.get( key ) == oldValue ) ) {
    map.put( key, newValue );
    return true;
} else {
    return false;
}
```

except that the action is performed atomically.

Parameters:

key key with which the specified value is associated.

oldValue value expected to be associated with the specified key.

newValue value to be associated with the specified key.

Returns:

true if the value was replaced

Implements `decaf::util::concurrent::ConcurrentMap< K, V, COMPARTOR >` (p. 916).

6.156.3.23 `template<typename K, typename V, typename COMPARTOR = std::less<K>> virtual std::size_t decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARTOR >::size () const [inline, virtual]`

Returns:

The number of elements (key/value pairs) in this map.

Implements `decaf::util::Map< K, V, COMPARTOR >` (p. 1699).

6.156.3.24 `template<typename K, typename V, typename COMPARTOR = std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARTOR >::unlock () throw (lang::Exception) [inline, virtual]`

Unlocks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2512).

6.156.3.25 `template<typename K, typename V, typename
 COMPARATOR = std::less<K>> virtual std::vector<V>
 decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR
 >::values () const [inline, virtual]`

Returns:

the entire set of values in this map as a std::vector.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1700).

Referenced by **decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::values()**.

6.156.3.26 `template<typename K, typename V, typename COMPARATOR =
 std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap<
 K, V, COMPARATOR >::wait (unsigned long milliseconds) throw (
 lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.156.3.27 `template<typename K, typename V, typename COMPARATOR =
 std::less<K>> virtual void decaf::util::concurrent::ConcurrentStlMap<
 K, V, COMPARATOR >::wait () throw (lang::Exception) [inline,
 virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/ConcurrentStlMap.h`

6.157 decaf::util::concurrent::locks::Condition Class Reference

Condition (p. 932) factors out the **Mutex** (p. 1921) monitor methods (wait, notify and notifyAll) into distinct objects to give the effect of having multiple wait-sets per object, by combining them with the use of arbitrary **Lock** (p. 1618) implementations.

```
#include <src/main/decaf/util/concurrent/locks/Condition.h>
```

Public Member Functions

- virtual **~Condition** ()
- virtual void **await** ()=0 throw (decaf::lang::exceptions::InterruptedException, decaf::lang::exceptions::IllegalMonitorStateException)
Causes the current thread to wait until it is signalled or interrupted.
- virtual void **awaitUninterruptibly** ()=0 throw (decaf::lang::exceptions::IllegalMonitorStateException)
Causes the current thread to wait until it is signalled.
- virtual long long **awaitNanos** (long long nanosTimeout)=0 throw (decaf::lang::exceptions::InterruptedException, decaf::lang::exceptions::IllegalMonitorStateException)
Causes the current thread to wait until it is signalled or interrupted, or the specified waiting time elapses.
- virtual bool **await** (long long time, const **TimeUnit** &unit)=0 throw (decaf::lang::exceptions::InterruptedException, decaf::lang::exceptions::IllegalMonitorStateException)
Causes the current thread to wait until it is signalled or interrupted, or the specified waiting time elapses.
- virtual void **signal** ()=0
Wakes up one waiting thread.
- virtual void **signalAll** ()=0
Wakes up all waiting threads.

6.157.1 Detailed Description

Condition (p. 932) factors out the **Mutex** (p. 1921) monitor methods (wait, notify and notifyAll) into distinct objects to give the effect of having multiple wait-sets per object, by combining them with the use of arbitrary **Lock** (p. 1618) implementations. Where a **Lock** (p. 1618) replaces the use of synchronized statements, a **Condition** (p. 932) replaces the use of the Object monitor methods.

Conditions (also known as condition queues or condition variables) provide a means for one thread to suspend execution (to "wait") until notified by another thread that some state condition may now be true. Because access to this shared state information occurs in different threads, it must be protected, so a lock of some form is associated with the condition. The key property that waiting

for a condition provides is that it atomically releases the associated lock and suspends the current thread.

A **Condition** (p. 932) instance is intrinsically bound to a lock. To obtain a **Condition** (p. 932) instance for a particular **Lock** (p. 1618) instance use its `newCondition()` method.

As an example, suppose we have a bounded buffer which supports put and take methods. If a take is attempted on an empty buffer, then the thread will block until an item becomes available; if a put is attempted on a full buffer, then the thread will block until a space becomes available. We would like to keep waiting put threads and take threads in separate wait-sets so that we can use the optimization of only notifying a single thread at a time when items or spaces become available in the buffer. This can be achieved using two **Condition** (p. 932) instances.

```
class BoundedBuffer { Lock* lock = new ReentrantLock(); Condition* notFull = lock->newCondition(); Condition* notEmpty = lock->newCondition();
```

```
Object* items = new Object[100]; int putptr, takeptr, count;
```

```
public void put( Object* x ) throw( InterruptedException ) { lock->lock(); try { while( count == 100 ) notFull->await() (p. 934); items[putptr] = x; if ( ++putptr == 100 ) putptr = 0; ++count; notEmpty->signal() (p. 937); } catch(...) { lock->unlock(); } }
```

```
public Object take() throw( InterruptedException ) { lock->lock(); try { while(count == 0) notEmpty->await() (p. 934); Object x = items[takeptr]; if ( ++takeptr == 100 ) takeptr = 0; --count; notFull->signal() (p. 937); return x; } catch(...) { lock->unlock(); } }
```

(The `ArrayBlockingQueue` class provides this functionality, so there is no reason to implement this sample usage class.)

Implementation Considerations

When waiting upon a **Condition** (p. 932), a "spurious wakeup" is permitted to occur, in general, as a concession to the underlying platform semantics. This has little practical impact on most application programs as a **Condition** (p. 932) should always be waited upon in a loop, testing the state predicate that is being waited for. An implementation is free to remove the possibility of spurious wakeups but it is recommended that applications programmers always assume that they can occur and so always wait in a loop.

The three forms of condition waiting (interruptible, non-interruptible, and timed) may differ in their ease of implementation on some platforms and in their performance characteristics. In particular, it may be difficult to provide these features and maintain specific semantics such as ordering guarantees. Further, the ability to interrupt the actual suspension of the thread may not always be feasible to implement on all platforms.

Consequently, an implementation is not required to define exactly the same guarantees or semantics for all three forms of waiting, nor is it required to support interruption of the actual suspension of the thread.

An implementation is required to clearly document the semantics and guarantees provided by each of the waiting methods, and when an implementation does support interruption of thread suspension then it must obey the interruption semantics as defined in this interface.

As interruption generally implies cancellation, and checks for interruption are often infrequent, an implementation can favor responding to an interrupt over normal method return. This is true even if it can be shown that the interrupt occurred after another action may have unblocked the thread. An implementation should document this behavior.

Since:

1.0

6.157.2 Constructor & Destructor Documentation

6.157.2.1 `virtual decaf::util::concurrent::locks::Condition::~~Condition () [inline, virtual]`

6.157.3 Member Function Documentation

6.157.3.1 `virtual bool decaf::util::concurrent::locks::Condition::await (long long time, const TimeUnit & unit) throw (decaf::lang::exceptions::InterruptedException, decaf::lang::exceptions::IllegalMonitorStateException) [pure virtual]`

Causes the current thread to wait until it is signalled or interrupted, or the specified waiting time elapses. This method is behaviorally equivalent to:

```
awaitNanos(unit.toNanos(time)) > 0
```

Parameters:

time - the maximum time to wait

unit - the time unit of the time argument

Returns:

false if the waiting time detectably elapsed before return from the method, else true

Exceptions:

InterruptedException if the current thread is interrupted (and interruption of thread suspension is supported)

IllegalMonitorStateException if the caller is not the lock owner.

6.157.3.2 `virtual void decaf::util::concurrent::locks::Condition::await () throw (decaf::lang::exceptions::InterruptedException, decaf::lang::exceptions::IllegalMonitorStateException) [pure virtual]`

Causes the current thread to wait until it is signalled or interrupted. The lock associated with this **Condition** (p. 932) is atomically released and the current thread becomes disabled for thread scheduling purposes and lies dormant until one of four things happens:

- * Some other thread invokes the **signal()** (p. 937) method for this **Condition** (p. 932) and the current thread happens to be chosen as the thread to be awakened; or
- * Some other thread invokes the **signalAll()** (p. 937) method for this **Condition** (p. 932); or
- * Some other thread interrupts the current thread, and interruption of thread suspension is supported; or
- * A "spurious wakeup" occurs.

In all cases, before this method can return the current thread must re-acquire the lock associated with this condition. When the thread returns it is guaranteed to hold this lock.

If the current thread:

- * has its interrupted status set on entry to this method; or
- * is interrupted while waiting and interruption of thread suspension is supported,

then **InterruptedException** is thrown and the current thread's interrupted status is cleared. It is not specified, in the first case, whether or not the test for interruption occurs before the lock is released.

Implementation Considerations

The current thread is assumed to hold the lock associated with this **Condition** (p. 932) when this method is called. It is up to the implementation to determine if this is the case and if not, how to respond. Typically, an exception will be thrown (such as `IllegalMonitorStateException`) and the implementation must document that fact.

An implementation can favor responding to an interrupt over normal method return in response to a signal. In that case the implementation must ensure that the signal is redirected to another waiting thread, if there is one.

Exceptions:

InterruptedException if the current thread is interrupted (and interruption of thread suspension is supported)

IllegalMonitorStateException if the caller is not the lock owner.

6.157.3.3 `virtual long long decaf::util::concurrent::locks::Condition::awaitNanos`
`(long long nanosTimeout) throw (de-`
`caf::lang::exceptions::InterruptedException,`
`decaf::lang::exceptions::IllegalMonitorStateException)`
`[pure virtual]`

Causes the current thread to wait until it is signalled or interrupted, or the specified waiting time elapses. The lock associated with this condition is atomically released and the current thread becomes disabled for thread scheduling purposes and lies dormant until one of five things happens:

* Some other thread invokes the **signal()** (p. 937) method for this **Condition** (p. 932) and the current thread happens to be chosen as the thread to be awakened; or * Some other thread invokes the **signalAll()** (p. 937) method for this **Condition** (p. 932); or * Some other thread interrupts the current thread, and interruption of thread suspension is supported; or * The specified waiting time elapses; or * A "spurious wakeup" occurs.

In all cases, before this method can return the current thread must re-acquire the lock associated with this condition. When the thread returns it is guaranteed to hold this lock.

If the current thread:

* has its interrupted status set on entry to this method; or * is interrupted while waiting and interruption of thread suspension is supported,

then `InterruptedException` is thrown and the current thread's interrupted status is cleared. It is not specified, in the first case, whether or not the test for interruption occurs before the lock is released.

The method returns an estimate of the number of nanoseconds remaining to wait given the supplied `nanosTimeout` value upon return, or a value less than or equal to zero if it timed out. This value can be used to determine whether and how long to re-wait in cases where the wait returns but an awaited condition still does not hold. Typical uses of this method take the following form:

```
synchronized boolean aMethod( long timeout, const TimeUnit& unit ) { long nanosTimeout =
unit.toNanos(timeout); while (!conditionBeingWaitedFor) { if (nanosTimeout > 0) nanosTimeout
= theCondition->awaitNanos(nanosTimeout); else return false; } // ... }
```

Design note: This method requires a nanosecond argument so as to avoid truncation errors in reporting remaining times. Such precision loss would make it difficult for programmers to ensure that total waiting times are not systematically shorter than specified when re-waits occur.

Implementation Considerations

The current thread is assumed to hold the lock associated with this **Condition** (p. 932) when this method is called. It is up to the implementation to determine if this is the case and if not, how to respond. Typically, an exception will be thrown (such as `IllegalMonitorStateException`) and the implementation must document that fact.

An implementation can favor responding to an interrupt over normal method return in response to a signal, or over indicating the elapse of the specified waiting time. In either case the implementation must ensure that the signal is redirected to another waiting thread, if there is one.

Parameters:

nanosTimeout - the maximum time to wait, in nanoseconds

Returns:

an estimate of the `nanosTimeout` value minus the time spent waiting upon return from this method. A positive value may be used as the argument to a subsequent call to this method to finish waiting out the desired time. A value less than or equal to zero indicates that no time remains.

Exceptions:

InterruptedException if the current thread is interrupted (and interruption of thread suspension is supported)

IllegalMonitorStateException if the caller is not the lock owner.

6.157.3.4 virtual void decaf::util::concurrent::locks::Condition::awaitUninterruptibly () throw (decaf::lang::exceptions::IllegalMonitorStateException) [pure virtual]

Causes the current thread to wait until it is signalled. The lock associated with this condition is atomically released and the current thread becomes disabled for thread scheduling purposes and lies dormant until one of three things happens:

- * Some other thread invokes the **signal()** (p. 937) method for this **Condition** (p. 932) and the current thread happens to be chosen as the thread to be awakened; or
- * Some other thread invokes the **signalAll()** (p. 937) method for this **Condition** (p. 932); or
- * A "spurious wakeup" occurs.

In all cases, before this method can return the current thread must re-acquire the lock associated with this condition. When the thread returns it is guaranteed to hold this lock.

If the current thread's interrupted status is set when it enters this method, or it is interrupted while waiting, it will continue to wait until signalled. When it finally returns from this method its interrupted status will still be set.

Implementation Considerations

The current thread is assumed to hold the lock associated with this **Condition** (p. 932) when this method is called. It is up to the implementation to determine if this is the case and if not, how to respond. Typically, an exception will be thrown (such as `IllegalMonitorStateException`) and the implementation must document that fact.

Exceptions:

IllegalMonitorStateException if the caller is not the lock owner.

6.157.3.5 virtual void decaf::util::concurrent::locks::Condition::signal () [pure virtual]

Wakes up one waiting thread. If any threads are waiting on this condition then one is selected for waking up. That thread must then re-acquire the lock before returning from await.

6.157.3.6 virtual void decaf::util::concurrent::locks::Condition::signalAll () [pure virtual]

Wakes up all waiting threads. If any threads are waiting on this condition then they are all woken up. Each thread must re-acquire the lock before it can return from await.

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/locks/**Condition.h**

6.158 decaf::net::ConnectException Class Reference

#include <src/main/decaf/net/ConnectException.h> Inheritance diagram for decaf::net::ConnectException:

Public Member Functions

- **ConnectException** () throw ()
Default Constructor.
- **ConnectException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **ConnectException** (const **ConnectException** &ex) throw ()
Copy Constructor.
- **ConnectException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **ConnectException** (const std::exception *cause) throw ()
Constructor.
- **ConnectException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **ConnectException** * clone () const
Clones this exception.
- virtual ~**ConnectException** () throw ()

6.158.1 Constructor & Destructor Documentation

6.158.1.1 decaf::net::ConnectException::ConnectException () throw () [inline]

Default Constructor.

6.158.1.2 decaf::net::ConnectException::ConnectException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.158.1.3 decaf::net::ConnectException::ConnectException (const ConnectException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.158.1.4 decaf::net::ConnectException::ConnectException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.158.1.5 decaf::net::ConnectException::ConnectException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.158.1.6 decaf::net::ConnectException::ConnectException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.158.1.7 `virtual decaf::net::ConnectException::~~ConnectException () throw ()`
[inline, virtual]

6.158.2 Member Function Documentation

6.158.2.1 `virtual ConnectException* decaf::net::ConnectException::clone () const`
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::net::SocketException** (p. 2380).

The documentation for this class was generated from the following file:

- `src/main/decaf/net/ConnectException.h`

6.159 cms::Connection Class Reference

The client's connection to its provider.

#include <src/main/cms/Connection.h> Inheritance diagram for cms::Connection:

Public Member Functions

- virtual **~Connection** ()
- virtual void **close** ()=0 throw (CMSEException)
Closes this connection as well as any Sessions created from it (and those Sessions' consumers and producers).
- virtual const **ConnectionMetaData** * **getMetaData** () const =0 throw (CMSEException)
Gets the metadata for this connection.
- virtual **Session** * **createSession** ()=0 throw (CMSEException)
*Creates an **AUTO_ACKNOWLEDGE Session** (p. 2270).*
- virtual **Session** * **createSession** (**Session::AcknowledgeMode** ackMode)=0 throw (CMSEException)
*Creates a new **Session** (p. 2270) to work for this **Connection** (p. 941) using the specified acknowledgment mode.*
- virtual std::string **getClientID** () const =0
Get the Client Id for this session.
- virtual **ExceptionListener** * **getExceptionListener** () const =0
Gets the registered Exception Listener for this connection.
- virtual void **setExceptionListener** (**ExceptionListener** *listener)=0
Sets the registered Exception Listener for this connection.

6.159.1 Detailed Description

The client's connection to its provider. Connections support concurrent use.

A connection serves several purposes:

- It encapsulates an open connection with a JMS provider. It typically represents an open TCP/IP socket between a client and the service provider software.
- Its creation is where client authentication takes place.
- It can specify a unique client identifier.
- It provides a **ConnectionMetaData** (p. 1015) object.
- It supports an optional **ExceptionListener** (p. 1275) object.

Because the creation of a connection involves setting up authentication and communication, a connection is a relatively heavy-weight object. Most clients will do all their messaging with a single connection. Other more advanced applications may use several connections. The CMS API does not architect a reason for using multiple connections; however, there may be operational reasons for doing so.

A CMS client typically creates a connection, one or more sessions, and a number of message producers and consumers. When a connection is created, it is in stopped mode. That means that no messages are being delivered.

It is typical to leave the connection in stopped mode until setup is complete (that is, until all message consumers have been created). At that point, the client calls the connection's start method, and messages begin arriving at the connection's consumers. This setup convention minimizes any client confusion that may result from asynchronous message delivery while the client is still in the process of setting itself up.

A connection can be started immediately, and the setup can be done afterwards. Clients that do this must be prepared to handle asynchronous message delivery while they are still in the process of setting up.

A message producer can send messages while a connection is stopped.

Since:

1.0

6.159.2 Constructor & Destructor Documentation

6.159.2.1 `virtual cms::Connection::~~Connection () [inline, virtual]`

6.159.3 Member Function Documentation

6.159.3.1 `virtual void cms::Connection::close () throw (CMSException) [pure virtual]`

Closes this connection as well as any Sessions created from it (and those Sessions' consumers and producers).

Exceptions:

CMSException (p. 850)

Implements `cms::Closeable` (p. 838).

Implemented in `activemq::core::ActiveMQConnection` (p. 193).

6.159.3.2 `virtual Session* cms::Connection::createSession (Session::AcknowledgeMode ackMode) throw (CMSException) [pure virtual]`

Creates a new **Session** (p. 2270) to work for this **Connection** (p. 941) using the specified acknowledgment mode.

Parameters:

ackMode the Acknowledgment Mode to use.

Exceptions:

CMSEException (p. 850)

Implemented in **activemq::core::ActiveMQConnection** (p. 193).

6.159.3.3 `virtual Session* cms::Connection::createSession () throw (CMSEException) [pure virtual]`

Creates an AUTO_ACKNOWLEDGE Session (p. 2270).

Exceptions:

CMSEException (p. 850)

Implemented in **activemq::core::ActiveMQConnection** (p. 194).

6.159.3.4 `virtual std::string cms::Connection::getClientID () const [pure virtual]`

Get the Client Id for this session.

Returns:

Client Id String

Implemented in **activemq::core::ActiveMQConnection** (p. 195).

6.159.3.5 `virtual ExceptionListener* cms::Connection::getExceptionListener () const [pure virtual]`

Gets the registered Exception Listener for this connection.

Returns:

pointer to an exception listener or NULL

Implemented in **activemq::core::ActiveMQConnection** (p. 196).

6.159.3.6 `virtual const ConnectionMetaData* cms::Connection::getMetaData () const throw (CMSEException) [pure virtual]`

Gets the metadata for this connection.

Returns:

the connection MetaData pointer (caller does not own it).

Exceptions:

CMSEException (p. 850) if the provider fails to get the connection metadata for this connection.

See also:

ConnectionMetaData (p. 1015)

Since:

2.0

Implemented in **activemq::core::ActiveMQConnection** (p. 196).

6.159.3.7 **virtual void cms::Connection::setExceptionListener** (**ExceptionListener ***
listener) [pure virtual]

Sets the registered Exception Listener for this connection.

Parameters:

listener pointer to and ExceptionListener (p. 1275)

Implemented in **activemq::core::ActiveMQConnection** (p. 198).

The documentation for this class was generated from the following file:

- `src/main/cms/Connection.h`

6.160 activemq::commands::ConnectionControl Class Reference

#include <src/main/activemq/commands/ConnectionControl.h> Inheritance diagram for activemq::commands::ConnectionControl:

Public Member Functions

- **ConnectionControl** ()
- virtual **~ConnectionControl** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ConnectionControl** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual bool **isClose** () const
- virtual void **setClose** (bool close)
- virtual bool **isExit** () const
- virtual void **setExit** (bool exit)
- virtual bool **isFaultTolerant** () const
- virtual void **setFaultTolerant** (bool faultTolerant)
- virtual bool **isResume** () const
- virtual void **setResume** (bool resume)
- virtual bool **isSuspend** () const
- virtual void **setSuspend** (bool suspend)
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor)
throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_CONNECTIONCONTROL** = 18

Protected Member Functions

- **ConnectionControl** (const **ConnectionControl** &)
- **ConnectionControl** & **operator=** (const **ConnectionControl** &)

Protected Attributes

- bool **close**
- bool **exit**
- bool **faultTolerant**
- bool **resume**
- bool **suspend**

6.160.1 Constructor & Destructor Documentation

6.160.1.1 **activemq::commands::ConnectionControl::ConnectionControl** (const **ConnectionControl** &) [inline, protected]

6.160.1.2 **activemq::commands::ConnectionControl::ConnectionControl** ()

6.160.1.3 **virtual activemq::commands::ConnectionControl::~~ConnectionControl** () [virtual]

6.160.2 Member Function Documentation

6.160.2.1 **virtual ConnectionControl*** **activemq::commands::ConnectionControl::cloneDataStructure** () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

6.160.2.2 **virtual void** **activemq::commands::ConnectionControl::copyDataStructure** (const **DataStructure** * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.160.2.3 virtual bool activemq::commands::ConnectionControl::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.160.2.4 virtual unsigned char activemq::commands::ConnectionControl::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.160.2.5 `virtual bool activemq::commands::ConnectionControl::isClose () const`
[virtual]
- 6.160.2.6 `virtual bool activemq::commands::ConnectionControl::isExit () const`
[virtual]
- 6.160.2.7 `virtual bool activemq::commands::ConnectionControl::isFaultTolerant ()`
`const` [virtual]
- 6.160.2.8 `virtual bool activemq::commands::ConnectionControl::isResume () const`
[virtual]
- 6.160.2.9 `virtual bool activemq::commands::ConnectionControl::isSuspend () const`
[virtual]
- 6.160.2.10 `ConnectionControl& activemq::commands::ConnectionControl::operator= (const`
`ConnectionControl &) [inline, protected]`
- 6.160.2.11 `virtual void activemq::commands::ConnectionControl::setClose (bool`
`close) [virtual]`
- 6.160.2.12 `virtual void activemq::commands::ConnectionControl::setExit (bool`
`exit) [virtual]`
- 6.160.2.13 `virtual void activemq::commands::ConnectionControl::setFaultTolerant`
`(bool faultTolerant) [virtual]`
- 6.160.2.14 `virtual void activemq::commands::ConnectionControl::setResume (bool`
`resume) [virtual]`
- 6.160.2.15 `virtual void activemq::commands::ConnectionControl::setSuspend (bool`
`suspend) [virtual]`
- 6.160.2.16 `virtual std::string activemq::commands::ConnectionControl::toString ()`
`const` [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p.512).

- 6.160.2.17 `virtual Pointer<Command> activemq::commands::ConnectionControl::visit`
`(activemq::state::CommandVisitor * visitor) throw (`
`exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.160.3 Field Documentation

6.160.3.1 `bool activemq::commands::ConnectionControl::close` [protected]

6.160.3.2 `bool activemq::commands::ConnectionControl::exit` [protected]

6.160.3.3 `bool activemq::commands::ConnectionControl::faultTolerant` [protected]

6.160.3.4 `const unsigned char activemq::commands::ConnectionControl::ID_ - CONNECTIONCONTROL = 18` [static]

6.160.3.5 `bool activemq::commands::ConnectionControl::resume` [protected]

6.160.3.6 `bool activemq::commands::ConnectionControl::suspend` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ConnectionControl.h`

6.161 activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 950).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ConnectionControlMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller:

Public Member Functions

- **ConnectionControlMarshaller** ()
- virtual **~ConnectionControlMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.161.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 950). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.161.2 Constructor & Destructor Documentation

6.161.2.1 `activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::ConnectionControlMarshaller()` `[inline]`

6.161.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::~~ConnectionControlMarshaller()` `[inline, virtual]`

6.161.3 Member Function Documentation

6.161.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.161.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.161.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.161.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.161.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.161.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.161.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ConnectionControlMarshaller.h

6.162 activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 954).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ConnectionControlMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller:

Public Member Functions

- **ConnectionControlMarshaller** ()
- virtual **~ConnectionControlMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.162.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 954). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.162.2 Constructor & Destructor Documentation

6.162.2.1 `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::ConnectionControlMarshaller()` `[inline]`

6.162.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::~ConnectionControlMarshaller()` `[inline, virtual]`

6.162.3 Member Function Documentation

6.162.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.162.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.162.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.162.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.162.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.162.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.162.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ConnectionControlMarshaller.h

6.163 activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 958).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ConnectionControlMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller:

Public Member Functions

- **ConnectionControlMarshaller** ()
- virtual **~ConnectionControlMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.163.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 958). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.163.2 Constructor & Destructor Documentation

6.163.2.1 `activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::ConnectionControlMarshaller()` `[inline]`

6.163.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::~~ConnectionControlMarshaller()` `[inline, virtual]`

6.163.3 Member Function Documentation

6.163.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.163.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.163.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.163.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.163.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.163.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.163.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ConnectionControlMarshaller.h

6.164 activemq::commands::ConnectionError Class Reference

#include <src/main/activemq/commands/ConnectionError.h> Inheritance diagram for activemq::commands::ConnectionError:

Public Member Functions

- **ConnectionError** ()
- virtual **~ConnectionError** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ConnectionError** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **BrokerError** > & **getException** () const
- virtual **Pointer**< **BrokerError** > & **getException** ()
- virtual void **setException** (const **Pointer**< **BrokerError** > &exception)
- virtual const **Pointer**< **ConnectionId** > & **getConnectionId** () const
- virtual **Pointer**< **ConnectionId** > & **getConnectionId** ()
- virtual void **setConnectionId** (const **Pointer**< **ConnectionId** > &connectionId)
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_CONNECTIONERROR** = 16

Protected Member Functions

- **ConnectionError** (const **ConnectionError** &)
- **ConnectionError** & **operator=** (const **ConnectionError** &)

Protected Attributes

- `Pointer< BrokerError > exception`
- `Pointer< ConnectionId > connectionId`

6.164.1 Constructor & Destructor Documentation

6.164.1.1 `activemq::commands::ConnectionError::ConnectionError (const ConnectionError &) [inline, protected]`

6.164.1.2 `activemq::commands::ConnectionError::ConnectionError ()`

6.164.1.3 `virtual activemq::commands::ConnectionError::~~ConnectionError () [virtual]`

6.164.2 Member Function Documentation

6.164.2.1 `virtual ConnectionError* activemq::commands::ConnectionError::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.164.2.2 `virtual void activemq::commands::ConnectionError::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.164.2.3 `virtual bool activemq::commands::ConnectionError::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

- 6.164.2.4 `virtual Pointer<ConnectionId>& activemq::commands::ConnectionError::getConnectionId ()`
[virtual]
- 6.164.2.5 `virtual const Pointer<ConnectionId>& activemq::commands::ConnectionError::getConnectionId ()`
const [virtual]
- 6.164.2.6 `virtual unsigned char activemq::commands::ConnectionError::getDataStructureType () const`
[virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.164.2.7 `virtual Pointer<BrokerError>& activemq::commands::ConnectionError::getException ()`
[virtual]
- 6.164.2.8 `virtual const Pointer<BrokerError>& activemq::commands::ConnectionError::getException ()`
const [virtual]
- 6.164.2.9 `ConnectionError& activemq::commands::ConnectionError::operator=`
(const ConnectionError &) [inline, protected]
- 6.164.2.10 `virtual void activemq::commands::ConnectionError::setConnectionId`
(const Pointer< ConnectionId > & *connectionId*) [virtual]
- 6.164.2.11 `virtual void activemq::commands::ConnectionError::setException (const`
Pointer< BrokerError > & *exception*) [virtual]
- 6.164.2.12 `virtual std::string activemq::commands::ConnectionError::toString ()`
const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.164.2.13 `virtual Pointer<Command> activemq::commands::ConnectionError::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.164.3 Field Documentation

6.164.3.1 `Pointer<ConnectionId> activemq::commands::ConnectionError::connectionId [protected]`

6.164.3.2 `Pointer<BrokerError> activemq::commands::ConnectionError::exception [protected]`

6.164.3.3 `const unsigned char activemq::commands::ConnectionError::ID _ - CONNECTIONERROR = 16 [static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ConnectionError.h`

6.165 activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p. 966).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ConnectionErrorMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller:

Public Member Functions

- **ConnectionErrorMarshaller** ()
- virtual **~ConnectionErrorMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.165.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p.966). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.165.2 Constructor & Destructor Documentation

6.165.2.1 `activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::ConnectionErrorMarshaller()` [inline]

6.165.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::~~ConnectionErrorMarshaller()` [inline, virtual]

6.165.3 Member Function Documentation

6.165.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.165.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.165.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.165.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.165.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.165.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.165.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ConnectionErrorMarshaller.h

6.166 activemq::wireformat::openwire::marshal::v1::ConnectionErrorMa Class Reference

Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p.970).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ConnectionErrorMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller:

Public Member Functions

- **ConnectionErrorMarshaller** ()
- virtual **~ConnectionErrorMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.166.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p.970). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.166.2 Constructor & Destructor Documentation

6.166.2.1 `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::ConnectionErrorMarshaller()` [inline]

6.166.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::~~ConnectionErrorMarshaller()` [inline, virtual]

6.166.3 Member Function Documentation

6.166.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.166.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.166.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.166.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.166.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.166.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.166.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ConnectionErrorMarshaller.h

6.167 activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p.974).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ConnectionErrorMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller:

Public Member Functions

- **ConnectionErrorMarshaller** ()
- virtual **~ConnectionErrorMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.167.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p.974). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.167.2 Constructor & Destructor Documentation

6.167.2.1 `activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::ConnectionErrorMarshaller()` [inline]

6.167.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::~~ConnectionErrorMarshaller()` [inline, virtual]

6.167.3 Member Function Documentation

6.167.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.167.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.167.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.167.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.167.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.167.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.167.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ConnectionErrorMarshaller.h

6.168 cms::ConnectionFactory Class Reference

Defines the interface for a factory that creates connection objects, the **Connection** (p. 941) objects returned implement the CMS **Connection** (p. 941) interface and hide the CMS Provider specific implementation details behind that interface.

```
#include <src/main/cms/ConnectionFactory.h>Inheritance          diagram          for
cms::ConnectionFactory:
```

Public Member Functions

- virtual **~ConnectionFactory** ()
- virtual **Connection * createConnection** ()=0 throw (CMSEException)
Creates a connection with the default user identity.
- virtual **cms::Connection * createConnection** (const std::string &username, const std::string &password)=0 throw (cms::CMSEException)
Creates a connection with the default specified identity.
- virtual **cms::Connection * createConnection** (const std::string &username, const std::string &password, const std::string &clientId)=0 throw (cms::CMSEException)
Creates a connection with the specified user identity.

Static Public Member Functions

- static **ConnectionFactory * createCMSConnectionFactory** (const std::string &brokerURI) throw (cms::CMSEException)
Static method that is used to create a provider specific connection factory.

6.168.1 Detailed Description

Defines the interface for a factory that creates connection objects, the **Connection** (p. 941) objects returned implement the CMS **Connection** (p. 941) interface and hide the CMS Provider specific implementation details behind that interface. A Client creates a new **ConnectionFactory** (p. 978) either directly by instantiating the provider specific implementation of the factory or by using the static method **createCMSConnectionFactory** which all providers are required to implement.

Since:

1.0

6.168.2 Constructor & Destructor Documentation

6.168.2.1 `virtual cms::ConnectionFactory::~~ConnectionFactory () [inline, virtual]`

6.168.3 Member Function Documentation

6.168.3.1 `static ConnectionFactory* cms::ConnectionFactory::createCMSConnectionFactory (const std::string & brokerURI) throw (cms::CMSException) [static]`

Static method that is used to create a provider specific connection factory. The provider implements this method in their library and returns an instance of a **ConnectionFactory** (p.978) derived object. Clients can use this method to remain abstracted from the specific CMS implementation being used.

Parameters:

brokerURI The remote address to use to connect to the Provider.

Returns:

A pointer to a provider specific implementation of the **ConnectionFactory** (p.978) interface, the caller is responsible for deleting this resource.

Exceptions:

CMSException (p. 850) if an internal error occurs while creating the **ConnectionFactory** (p.978).

6.168.3.2 `virtual cms::Connection* cms::ConnectionFactory::createConnection (const std::string & username, const std::string & password, const std::string & clientId) throw (cms::CMSException) [pure virtual]`

Creates a connection with the specified user identity. The connection is created in stopped mode. No messages will be delivered until the **Connection.start** (p.2413) method is explicitly called. The user name and password values passed here do not change the defaults, subsequent calls to the parameterless createConnection will continue to use the default values that were set in the Constructor.

Parameters:

username The user name used to authenticate with the Provider.

password The password used to authenticate with the Provider.

clientId The Client Id assigned to connection. If the id is the empty string ("") then a random client Id is created for this connection.

Returns:

A pointer to a connection object, caller owns the pointer and is responsible for closing the connection and deleting the instance.

Exceptions:

CMSException (p. 850) if an internal error occurs while creating the **Connection** (p.941).

Implemented in **activemq::core::ActiveMQConnectionFactory** (p. 202).

6.168.3.3 **virtual cms::Connection* cms::ConnectionFactory::createConnection**
(const std::string & *username*, const std::string & *password*) throw (
cms::CMSEException) [pure virtual]

Creates a connection with the default specified identity. The connection is created in stopped mode. No messages will be delivered until the **Connection.start** (p. 2413) method is explicitly called. The username and password values passed here do not change the defaults, subsequent calls to the parameterless createConnection will continue to use the default values that were set in the Constructor.

Parameters:

username The user name used to authenticate with the Provider.

password The password used to authenticate with the Provider.

Returns:

A pointer to a connection object, caller owns the pointer and is responsible for closing the connection and deleting the instance.

Exceptions:

CMSEException (p. 850) if an internal error occurs while creating the **Connection** (p. 941).

Implemented in **activemq::core::ActiveMQConnectionFactory** (p. 202).

6.168.3.4 **virtual Connection* cms::ConnectionFactory::createConnection ()** throw
(CMSEException) [pure virtual]

Creates a connection with the default user identity. The connection is created in stopped mode. No messages will be delivered until the **Connection.start** (p. 2413) method is explicitly called.

Returns:

A pointer to a connection object, caller owns the pointer and is responsible for closing the connection and deleting the instance.

Exceptions:

CMSEException (p. 850) if an internal error occurs while creating the **Connection** (p. 941).

Implemented in **activemq::core::ActiveMQConnectionFactory** (p. 202).

The documentation for this class was generated from the following file:

- src/main/cms/**ConnectionFactory.h**

6.169 activemq::commands::ConnectionId Class Reference

#include <src/main/activemq/commands/ConnectionId.h> Inheritance diagram for activemq::commands::ConnectionId:

Public Types

- typedef decaf::lang::PointerComparator< ConnectionId > COMPARATOR

Public Member Functions

- **ConnectionId** ()
- **ConnectionId** (const **ConnectionId** &other)
- **ConnectionId** (const **SessionId** *sessionId)
- **ConnectionId** (const **ProducerId** *producerId)
- **ConnectionId** (const **ConsumerId** *consumerId)
- virtual ~**ConnectionId** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ConnectionId** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const std::string & **getValue** () const
- virtual std::string & **getValue** ()
- virtual void **setValue** (const std::string &value)
- virtual int **compareTo** (const **ConnectionId** &value) const
- virtual bool **equals** (const **ConnectionId** &value) const
- virtual bool **operator==** (const **ConnectionId** &value) const
- virtual bool **operator<** (const **ConnectionId** &value) const
- **ConnectionId** & **operator=** (const **ConnectionId** &other)

Static Public Attributes

- static const unsigned char **ID_CONNECTIONID** = 120

Protected Attributes

- `std::string value`

6.169.1 Member Typedef Documentation

6.169.1.1 `typedef decaf::lang::PointerComparator<ConnectionId>
activemq::commands::ConnectionId::COMPARATOR`

6.169.2 Constructor & Destructor Documentation

6.169.2.1 `activemq::commands::ConnectionId::ConnectionId ()`

6.169.2.2 `activemq::commands::ConnectionId::ConnectionId (const ConnectionId
& other)`

6.169.2.3 `activemq::commands::ConnectionId::ConnectionId (const SessionId *
sessionId)`

6.169.2.4 `activemq::commands::ConnectionId::ConnectionId (const ProducerId *
producerId)`

6.169.2.5 `activemq::commands::ConnectionId::ConnectionId (const ConsumerId *
consumerId)`

6.169.2.6 `virtual activemq::commands::ConnectionId::~~ConnectionId () [virtual]`

6.169.3 Member Function Documentation

6.169.3.1 `virtual ConnectionId* ac-
tivemq::commands::ConnectionId::cloneDataStructure ()
const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.169.3.2 `virtual int activemq::commands::ConnectionId::compareTo (const
ConnectionId & value) const [virtual]`

6.169.3.3 `virtual void activemq::commands::ConnectionId::copyDataStructure
(const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.169.3.4 virtual bool activemq::commands::ConnectionId::equals (const ConnectionId & *value*) const [virtual]

6.169.3.5 virtual bool activemq::commands::ConnectionId::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.169.3.6 virtual unsigned char activemq::commands::ConnectionId::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

6.169.3.7 virtual std::string& activemq::commands::ConnectionId::getValue () [virtual]

6.169.3.8 virtual const std::string& activemq::commands::ConnectionId::getValue () const [virtual]

6.169.3.9 virtual bool activemq::commands::ConnectionId::operator< (const ConnectionId & *value*) const [virtual]

6.169.3.10 ConnectionId& activemq::commands::ConnectionId::operator= (const ConnectionId & *other*)

6.169.3.11 virtual bool activemq::commands::ConnectionId::operator== (const ConnectionId & *value*) const [virtual]

6.169.3.12 virtual void activemq::commands::ConnectionId::setValue (const std::string & *value*) [virtual]

6.169.3.13 virtual std::string activemq::commands::ConnectionId::toString () const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataStructure** (p. 560).

6.169.4 Field Documentation

6.169.4.1 `const unsigned char activemq::commands::ConnectionId::ID_ - CONNECTIONID = 120` [static]

Referenced by `activemq::state::CommandVisitorAdapter::processRemoveInfo()`.

6.169.4.2 `std::string activemq::commands::ConnectionId::value` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ConnectionId.h`

6.170 activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 985).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ConnectionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller:

Public Member Functions

- **ConnectionIdMarshaller** ()
- virtual **~ConnectionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.170.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 985). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.170.2 Constructor & Destructor Documentation

6.170.2.1 `activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::ConnectionIdMarshaller()` [inline]

6.170.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::~~ConnectionIdMarshaller()` [inline, virtual]

6.170.3 Member Function Documentation

6.170.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.170.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.170.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.170.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.170.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.170.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.170.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ConnectionIdMarshaller.h

6.171 activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 989).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ConnectionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller:

Public Member Functions

- **ConnectionIdMarshaller** ()
- virtual **~ConnectionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.171.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 989). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.171.2 Constructor & Destructor Documentation

6.171.2.1 `activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::ConnectionIdMarshaller()` [inline]

6.171.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::~~ConnectionIdMarshaller()` [inline, virtual]

6.171.3 Member Function Documentation

6.171.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.171.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaller.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.171.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.171.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.171.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.171.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.171.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ConnectionIdMarshaller.h

6.172 activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 993).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ConnectionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller:

Public Member Functions

- **ConnectionIdMarshaller** ()
- virtual **~ConnectionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.172.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 993). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.172.2 Constructor & Destructor Documentation

6.172.2.1 `activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::ConnectionIdMarshaller()` [inline]

6.172.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::~~ConnectionIdMarshaller()` [inline, virtual]

6.172.3 Member Function Documentation

6.172.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.172.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaller.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.172.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.172.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.172.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.172.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.172.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ConnectionIdMarshaller.h

6.173 activemq::commands::ConnectionInfo Class Reference

#include <src/main/activemq/commands/ConnectionInfo.h> Inheritance diagram for activemq::commands::ConnectionInfo:

Public Member Functions

- **ConnectionInfo** ()
- virtual **~ConnectionInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ConnectionInfo** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConnectionId** > & **getConnectionId** () const
- virtual **Pointer**< **ConnectionId** > & **getConnectionId** ()
- virtual void **setConnectionId** (const **Pointer**< **ConnectionId** > &connectionId)
- virtual const std::string & **getClientId** () const
- virtual std::string & **getClientId** ()
- virtual void **setClientId** (const std::string &clientId)
- virtual const std::string & **getPassword** () const
- virtual std::string & **getPassword** ()
- virtual void **setPassword** (const std::string &password)
- virtual const std::string & **getUserName** () const
- virtual std::string & **getUserName** ()
- virtual void **setUserName** (const std::string &userName)
- virtual const std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** () const
- virtual std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** ()
- virtual void **setBrokerPath** (const std::vector< **decaf::lang::Pointer**< **BrokerId** > > &brokerPath)
- virtual bool **isBrokerMasterConnector** () const
- virtual void **setBrokerMasterConnector** (bool brokerMasterConnector)
- virtual bool **isManageable** () const
- virtual void **setManageable** (bool manageable)
- virtual bool **isClientMaster** () const

- virtual void **setClientMaster** (bool **clientMaster**)
- virtual bool **isConnectionInfo** () const
- virtual **Pointer**< **Command** > **visit** (**activemq::state::CommandVisitor** *visitor) throw (exceptions::ActiveMQException)

Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID _ CONNECTIONINFO** = 3

Protected Member Functions

- **ConnectionInfo** (const **ConnectionInfo** &)
- **ConnectionInfo** & **operator=** (const **ConnectionInfo** &)

Protected Attributes

- **Pointer**< **ConnectionId** > **connectionId**
- std::string **clientId**
- std::string **password**
- std::string **userName**
- std::vector< decaf::lang::Pointer< **BrokerId** > > **brokerPath**
- bool **brokerMasterConnector**
- bool **manageable**
- bool **clientMaster**

6.173.1 Constructor & Destructor Documentation

6.173.1.1 **activemq::commands::ConnectionInfo::ConnectionInfo** (const **ConnectionInfo** &) [inline, protected]

6.173.1.2 **activemq::commands::ConnectionInfo::ConnectionInfo** ()

6.173.1.3 virtual **activemq::commands::ConnectionInfo::~~ConnectionInfo** () [virtual]

6.173.2 Member Function Documentation

6.173.2.1 virtual **ConnectionInfo*** **activemq::commands::ConnectionInfo::cloneDataStructure** () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

6.173.2.2 virtual void activemq::commands::ConnectionInfo::copyDataStructure (const DataStructure * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.173.2.3 virtual bool activemq::commands::ConnectionInfo::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.173.2.4 virtual std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::ConnectionInfo::getBrokerPath () [virtual]**6.173.2.5 virtual const std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::ConnectionInfo::getBrokerPath () const [virtual]****6.173.2.6 virtual std::string& activemq::commands::ConnectionInfo::getClientId () [virtual]****6.173.2.7 virtual const std::string& activemq::commands::ConnectionInfo::getClientId () const [virtual]****6.173.2.8 virtual Pointer<ConnectionId>& activemq::commands::ConnectionInfo::getConnectionId () [virtual]****6.173.2.9 virtual const Pointer<ConnectionId>& activemq::commands::ConnectionInfo::getConnectionId () const [virtual]****6.173.2.10 virtual unsigned char activemq::commands::ConnectionInfo::getDataStructureType () const [virtual]**

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.173.2.11** `virtual std::string& activemq::commands::ConnectionInfo::getPassword () [virtual]`
- 6.173.2.12** `virtual const std::string& activemq::commands::ConnectionInfo::getPassword () const [virtual]`
- 6.173.2.13** `virtual std::string& activemq::commands::ConnectionInfo::getUserName () [virtual]`
- 6.173.2.14** `virtual const std::string& activemq::commands::ConnectionInfo::getUserName () const [virtual]`
- 6.173.2.15** `virtual bool activemq::commands::ConnectionInfo::isBrokerMasterConnector () const [virtual]`
- 6.173.2.16** `virtual bool activemq::commands::ConnectionInfo::isClientMaster () const [virtual]`
- 6.173.2.17** `virtual bool activemq::commands::ConnectionInfo::isConnectionInfo () const [inline, virtual]`

Returns:

an answer of true to the `isConnectionInfo()` (p. 1000) query.

Reimplemented from `activemq::commands::BaseCommand` (p. 510).

- 6.173.2.18 `virtual bool activemq::commands::ConnectionInfo::isManageable () const [virtual]`
- 6.173.2.19 `ConnectionInfo& activemq::commands::ConnectionInfo::operator= (const ConnectionInfo &) [inline, protected]`
- 6.173.2.20 `virtual void activemq::commands::ConnectionInfo::setBrokerMasterConnector (bool brokerMasterConnector) [virtual]`
- 6.173.2.21 `virtual void activemq::commands::ConnectionInfo::setBrokerPath (const std::vector< decaf::lang::Pointer< BrokerId > > & brokerPath) [virtual]`
- 6.173.2.22 `virtual void activemq::commands::ConnectionInfo::setClientId (const std::string & clientId) [virtual]`
- 6.173.2.23 `virtual void activemq::commands::ConnectionInfo::setClientMaster (bool clientMaster) [virtual]`
- 6.173.2.24 `virtual void activemq::commands::ConnectionInfo::setConnectionId (const Pointer< ConnectionId > & connectionId) [virtual]`
- 6.173.2.25 `virtual void activemq::commands::ConnectionInfo::setManageable (bool manageable) [virtual]`
- 6.173.2.26 `virtual void activemq::commands::ConnectionInfo::setPassword (const std::string & password) [virtual]`
- 6.173.2.27 `virtual void activemq::commands::ConnectionInfo::setUserName (const std::string & userName) [virtual]`
- 6.173.2.28 `virtual std::string activemq::commands::ConnectionInfo::toString () const [virtual]`

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

- 6.173.2.29 `virtual Pointer<Command> activemq::commands::ConnectionInfo::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.173.3 Field Documentation

- 6.173.3.1 `bool activemq::commands::ConnectionInfo::brokerMasterConnector` [protected]
- 6.173.3.2 `std::vector< decaf::lang::Pointer<BrokerId> >`
`activemq::commands::ConnectionInfo::brokerPath` [protected]
- 6.173.3.3 `std::string activemq::commands::ConnectionInfo::clientId` [protected]
- 6.173.3.4 `bool activemq::commands::ConnectionInfo::clientMaster` [protected]
- 6.173.3.5 `Pointer<ConnectionId>` `activemq::commands::ConnectionInfo::connectionId` [protected]
- 6.173.3.6 `const unsigned char activemq::commands::ConnectionInfo::ID_ - CONNECTIONINFO = 3` [static]
- 6.173.3.7 `bool activemq::commands::ConnectionInfo::manageable` [protected]
- 6.173.3.8 `std::string activemq::commands::ConnectionInfo::password` [protected]
- 6.173.3.9 `std::string activemq::commands::ConnectionInfo::userName` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ConnectionInfo.h`

6.174 activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1003).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ConnectionInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller:

Public Member Functions

- **ConnectionInfoMarshaller** ()
- virtual **~ConnectionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.174.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1003). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.174.2 Constructor & Destructor Documentation

6.174.2.1 `activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::ConnectionInfoMarshaller()` [inline]

6.174.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::~~ConnectionInfoMarshaller()` [inline, virtual]

6.174.3 Member Function Documentation

6.174.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.174.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.174.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.174.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.174.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.174.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.174.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ConnectionInfoMarshaller.h

6.175 activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1007).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ConnectionInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller:

Public Member Functions

- **ConnectionInfoMarshaller** ()
- virtual **~ConnectionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.175.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1007). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.175.2 Constructor & Destructor Documentation

6.175.2.1 `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::ConnectionInfoM
() [inline]`

6.175.2.2 `virtual
activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::~~ConnectionInfo
() [inline, virtual]`

6.175.3 Member Function Documentation

6.175.3.1 `virtual commands::DataStructure* ac-
tivemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::createObject
() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.175.3.2 `virtual unsigned char ac-
tivemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::getDataStructureT
() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.175.3.3 `virtual void ac-
tivemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::looseMarshal
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, decaf::io::DataOutputStream * dataOut) throw (
decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.175.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.175.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.175.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.175.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ConnectionInfoMarshaller.h

6.176 activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1011).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ConnectionInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller:

Public Member Functions

- **ConnectionInfoMarshaller** ()
- virtual **~ConnectionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.176.1 Detailed Description

Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1011). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.176.2 Constructor & Destructor Documentation

6.176.2.1 `activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::ConnectionInfoMarshaller()` [inline]

6.176.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::~~ConnectionInfoMarshaller()` [inline, virtual]

6.176.3 Member Function Documentation

6.176.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.176.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.176.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 529).

6.176.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 530).

6.176.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 531).

6.176.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.176.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ConnectionInfoMarshaller.h

6.177 cms::ConnectionMetaData Class Reference

A **ConnectionMetaData** (p.1015) object provides information describing the **Connection** (p.941) object.

#include <src/main/cms/ConnectionMetaData.h> Inheritance diagram for cms::ConnectionMetaData:

Public Member Functions

- virtual **~ConnectionMetaData** ()
- virtual std::string **getCMSVersion** () const =0 throw (cms::CMSEException)
Gets the CMS API version.
- virtual int **getCMSMajorVersion** () const =0 throw (cms::CMSEException)
Gets the CMS major version number.
- virtual int **getCMSMinorVersion** () const =0 throw (cms::CMSEException)
Gets the CMS minor version number.
- virtual std::string **getCMSProviderName** () const =0 throw (cms::CMSEException)
Gets the CMS provider name.
- virtual std::string **getProviderVersion** () const =0 throw (cms::CMSEException)
Gets the CMS provider version.
- virtual int **getProviderMajorVersion** () const =0 throw (cms::CMSEException)
Gets the CMS provider major version number.
- virtual int **getProviderMinorVersion** () const =0 throw (cms::CMSEException)
Gets the CMS provider minor version number.
- virtual std::vector< std::string > **getCMSXPropertyNames** () const =0 throw (cms::CMSEException)
Gets an Vector of the CMSX property names.

6.177.1 Detailed Description

A **ConnectionMetaData** (p.1015) object provides information describing the **Connection** (p.941) object.

Since:

1.3

6.177.2 Constructor & Destructor Documentation

6.177.2.1 `virtual cms::ConnectionMetaData::~~ConnectionMetaData () [inline, virtual]`

6.177.3 Member Function Documentation

6.177.3.1 `virtual int cms::ConnectionMetaData::getCMSMajorVersion () const throw (cms::CMSException) [pure virtual]`

Gets the CMS major version number.

Returns:

the CMS API major version number

Exceptions:

CMSException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in `activemq::core::ActiveMQConnectionMetaData` (p. 206).

6.177.3.2 `virtual int cms::ConnectionMetaData::getCMSMinorVersion () const throw (cms::CMSException) [pure virtual]`

Gets the CMS minor version number.

Returns:

the CMS API minor version number

Exceptions:

CMSException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in `activemq::core::ActiveMQConnectionMetaData` (p. 206).

6.177.3.3 `virtual std::string cms::ConnectionMetaData::getCMSProviderName () const throw (cms::CMSException) [pure virtual]`

Gets the CMS provider name.

Returns:

the CMS provider name

Exceptions:

CMSException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in `activemq::core::ActiveMQConnectionMetaData` (p. 206).

6.177.3.4 `virtual std::string cms::ConnectionMetaData::getCMSVersion () const
throw (cms::CMSEException) [pure virtual]`

Gets the CMS API version.

Returns:

the CMS API Version in String form.

Exceptions:

CMSEException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in `activemq::core::ActiveMQConnectionMetaData` (p. 207).

6.177.3.5 `virtual std::vector<std::string>
cms::ConnectionMetaData::getCMSXPropertyNames ()
const throw (cms::CMSEException) [pure virtual]`

Gets an Vector of the CMSX property names.

Returns:

an Vector of CMSX property names

Exceptions:

CMSEException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in `activemq::core::ActiveMQConnectionMetaData` (p. 207).

6.177.3.6 `virtual int cms::ConnectionMetaData::getProviderMajorVersion () const
throw (cms::CMSEException) [pure virtual]`

Gets the CMS provider major version number.

Returns:

the CMS provider major version number

Exceptions:

CMSEException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in `activemq::core::ActiveMQConnectionMetaData` (p. 207).

6.177.3.7 `virtual int cms::ConnectionMetaData::getProviderMinorVersion () const
throw (cms::CMSEException) [pure virtual]`

Gets the CMS provider minor version number.

Returns:

the CMS provider minor version number

Exceptions:

CMSEException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in **activemq::core::ActiveMQConnectionMetaData** (p. 208).

6.177.3.8 `virtual std::string cms::ConnectionMetaData::getProviderVersion ()
const throw (cms::CMSEException) [pure virtual]`

Gets the CMS provider version.

Returns:

the CMS provider version

Exceptions:

CMSEException (p. 850) If the CMS Provider fails to retrieve the metadata due to some internal error.

Implemented in **activemq::core::ActiveMQConnectionMetaData** (p. 208).

The documentation for this class was generated from the following file:

- `src/main/cms/ConnectionMetaData.h`

6.178 activemq::state::ConnectionState Class Reference

```
#include <src/main/activemq/state/ConnectionState.h>
```

Public Member Functions

- **ConnectionState** (const **Pointer**< **ConnectionInfo** > &info)
- virtual **~ConnectionState** ()
- **std::string toString** () const
- const **Pointer**< **commands::ConnectionInfo** > & **getInfo** () const
- void **checkShutdown** () const
- void **shutdown** ()
- void **reset** (const **Pointer**< **ConnectionInfo** > &info)
- void **addTempDestination** (const **Pointer**< **DestinationInfo** > &info)
- void **removeTempDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- void **addTransactionState** (const **Pointer**< **TransactionId** > &id)
- const **Pointer**< **TransactionState** > & **getTransactionState** (const **Pointer**< **TransactionId** > &id) const
- **std::vector**< **Pointer**< **TransactionState** > > **getTransactionStates** () const
- **Pointer**< **TransactionState** > **removeTransactionState** (const **Pointer**< **TransactionId** > &id)
- void **addSession** (const **Pointer**< **SessionInfo** > &info)
- **Pointer**< **SessionState** > **removeSession** (const **Pointer**< **SessionId** > &id)
- const **Pointer**< **SessionState** > & **getSessionState** (const **Pointer**< **SessionId** > &id) const
- const **StlList**< **Pointer**< **DestinationInfo** > > & **getTempDesinations** () const
- **std::vector**< **Pointer**< **SessionState** > > **getSessionStates** () const

6.178.1 Constructor & Destructor Documentation

- 6.178.1.1** `activemq::state::ConnectionState::ConnectionState (const Pointer< ConnectionInfo > & info)`
- 6.178.1.2** `virtual activemq::state::ConnectionState::~~ConnectionState ()` [virtual]

6.178.2 Member Function Documentation

- 6.178.2.1** `void activemq::state::ConnectionState::addSession (const Pointer< SessionInfo > & info)` [inline]
- 6.178.2.2** `void activemq::state::ConnectionState::addTempDestination (const Pointer< DestinationInfo > & info)` [inline]
- 6.178.2.3** `void activemq::state::ConnectionState::addTransactionState (const Pointer< TransactionId > & id)` [inline]
- 6.178.2.4** `void activemq::state::ConnectionState::checkShutdown ()` const
- 6.178.2.5** `const Pointer< commands::ConnectionInfo > & activemq::state::ConnectionState::getInfo ()` const [inline]
- 6.178.2.6** `const Pointer< SessionState > & activemq::state::ConnectionState::getSessionState (const Pointer< SessionId > & id)` const [inline]
- 6.178.2.7** `std::vector< Pointer< SessionState > > activemq::state::ConnectionState::getSessionStates ()` const [inline]
- 6.178.2.8** `const StlList< Pointer< DestinationInfo > > & activemq::state::ConnectionState::getTempDesinations ()` const [inline]
- 6.178.2.9** `const Pointer< TransactionState > & activemq::state::ConnectionState::getTransactionState (const Pointer< TransactionId > & id)` const [inline]
- 6.178.2.10** `std::vector< Pointer< TransactionState > > activemq::state::ConnectionState::getTransactionStates ()` const [inline]
- 6.178.2.11** `Pointer< SessionState > activemq::state::ConnectionState::removeSession (const Pointer< SessionId > & id)` [inline]
- 6.178.2.12** `void activemq::state::ConnectionState::removeTempDestination (const Pointer< ActiveMQDestination > & destination)` [inline]

References `decaf::lang::Pointer< T, REFCOUNTER >::get()`.

- 6.178.2.13 `Pointer<TransactionState> activemq::state::ConnectionState::removeTransactionState (const Pointer< TransactionId > & id) [inline]`
- 6.178.2.14 `void activemq::state::ConnectionState::reset (const Pointer< ConnectionInfo > & info)`
- 6.178.2.15 `void activemq::state::ConnectionState::shutdown ()`
- 6.178.2.16 `std::string activemq::state::ConnectionState::toString () const`

The documentation for this class was generated from the following file:

- `src/main/activemq/state/ConnectionState.h`

6.179 activemq::state::ConnectionStateTracker Class Reference

#include <src/main/activemq/state/ConnectionStateTracker.h> Inheritance diagram for activemq::state::ConnectionStateTracker:

Public Member Functions

- **ConnectionStateTracker** ()
- virtual **~ConnectionStateTracker** ()
- **Pointer< Tracked > track** (const **Pointer< Command >** &command) throw (decaf::io::IOException)
- void **trackBack** (const **Pointer< Command >** &command)
- void **restore** (const **Pointer< transport::Transport >** &transport) throw (decaf::io::IOException)
- virtual **Pointer< Command > processDestinationInfo** (**DestinationInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processRemoveDestination** (**DestinationInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processProducerInfo** (**ProducerInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processRemoveProducer** (**ProducerId** *id) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processConsumerInfo** (**ConsumerInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processRemoveConsumer** (**ConsumerId** *id) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processSessionInfo** (**SessionInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processRemoveSession** (**SessionId** *id) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processConnectionInfo** (**ConnectionInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processRemoveConnection** (**ConnectionId** *id) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processMessage** (**Message** *message) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processMessageAck** (**MessageAck** *ack) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processBeginTransaction** (**TransactionInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processPrepareTransaction** (**TransactionInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processCommitTransactionOnePhase** (**TransactionInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processCommitTransactionTwoPhase** (**TransactionInfo** *info) throw (exceptions::ActiveMQException)
- virtual **Pointer< Command > processRollbackTransaction** (**TransactionInfo** *info) throw (exceptions::ActiveMQException)

- virtual **Pointer< Command > processEndTransaction** (**TransactionInfo** *info) throw (exceptions::ActiveMQException)
- bool **isRestoreConsumers** () const
- void **setRestoreConsumers** (bool restoreConsumers)
- bool **isRestoreProducers** () const
- void **setRestoreProducers** (bool restoreProducers)
- bool **isRestoreSessions** () const
- void **setRestoreSessions** (bool restoreSessions)
- bool **isTrackTransactions** () const
- void **setTrackTransactions** (bool trackTransactions)
- bool **isRestoreTransaction** () const
- void **setRestoreTransaction** (bool restoreTransaction)
- bool **isTrackMessages** () const
- void **setTrackMessages** (bool trackMessages)
- int **getMaxCacheSize** () const
- void **setMaxCacheSize** (int maxCacheSize)

Friends

- class **RemoveTransactionAction**

6.179.1 Constructor & Destructor Documentation

6.179.1.1 `activemq::state::ConnectionStateTracker::ConnectionStateTracker ()`

6.179.1.2 `virtual
activemq::state::ConnectionStateTracker::~~ConnectionStateTracker ()
[virtual]`

6.179.2 Member Function Documentation

6.179.2.1 `int activemq::state::ConnectionStateTracker::getMaxCacheSize () const
[inline]`

6.179.2.2 `bool activemq::state::ConnectionStateTracker::isRestoreConsumers ()
const [inline]`

6.179.2.3 `bool activemq::state::ConnectionStateTracker::isRestoreProducers ()
const [inline]`

6.179.2.4 `bool activemq::state::ConnectionStateTracker::isRestoreSessions () const
[inline]`

6.179.2.5 `bool activemq::state::ConnectionStateTracker::isRestoreTransaction ()
const [inline]`

6.179.2.6 `bool activemq::state::ConnectionStateTracker::isTrackMessages () const
[inline]`

6.179.2.7 `bool activemq::state::ConnectionStateTracker::isTrackTransactions ()
const [inline]`

6.179.2.8 `virtual Pointer<Command> ac-
tivismq::state::ConnectionStateTracker::processBeginTransaction
(TransactionInfo * info) throw (exceptions::ActiveMQException)
[virtual]`

Implements `activemq::state::CommandVisitor` (p. 887).

6.179.2.9 `virtual Pointer<Command> ac-
tivismq::state::ConnectionStateTracker::processCommitTransactionOnePhase
(TransactionInfo * info) throw (exceptions::ActiveMQException)
[virtual]`

Implements `activemq::state::CommandVisitor` (p. 887).

6.179.2.10 `virtual Pointer<Command> ac-
tivismq::state::ConnectionStateTracker::processCommitTransactionTwoPhase
(TransactionInfo * info) throw (exceptions::ActiveMQException)
[virtual]`

Implements `activemq::state::CommandVisitor` (p. 887).

6.179.2.11 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processConnectionInfo (ConnectionInfo * *info*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 888).

6.179.2.12 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processConsumerInfo (ConsumerInfo * *info*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 888).

6.179.2.13 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processDestinationInfo (DestinationInfo * *info*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 888).

6.179.2.14 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processEndTransaction (TransactionInfo * *info*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 888).

6.179.2.15 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processMessage (Message * *message*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 889).

6.179.2.16 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processMessageAck (MessageAck * *ack*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 889).

6.179.2.17 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processPrepareTransaction (TransactionInfo * *info*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 889).

6.179.2.18 `virtual Pointer<Command> activemq::state::ConnectionStateTracker::processProducerInfo (ProducerInfo * info) throw (exceptions::ActiveMQException)` [virtual]

Implements `activemq::state::CommandVisitor` (p. 890).

6.179.2.19 `virtual Pointer<Command> activemq::state::ConnectionStateTracker::processRemoveConnection (ConnectionId * id) throw (exceptions::ActiveMQException)` [virtual]

Implements `activemq::state::CommandVisitor` (p. 890).

6.179.2.20 `virtual Pointer<Command> activemq::state::ConnectionStateTracker::processRemoveConsumer (ConsumerId * id) throw (exceptions::ActiveMQException)` [virtual]

Implements `activemq::state::CommandVisitor` (p. 890).

6.179.2.21 `virtual Pointer<Command> activemq::state::ConnectionStateTracker::processRemoveDestination (DestinationInfo * info) throw (exceptions::ActiveMQException)` [virtual]

Implements `activemq::state::CommandVisitor` (p. 890).

6.179.2.22 `virtual Pointer<Command> activemq::state::ConnectionStateTracker::processRemoveProducer (ProducerId * id) throw (exceptions::ActiveMQException)` [virtual]

Implements `activemq::state::CommandVisitor` (p. 890).

6.179.2.23 `virtual Pointer<Command> activemq::state::ConnectionStateTracker::processRemoveSession (SessionId * id) throw (exceptions::ActiveMQException)` [virtual]

Implements `activemq::state::CommandVisitor` (p. 891).

6.179.2.24 `virtual Pointer<Command> activemq::state::ConnectionStateTracker::processRollbackTransaction (TransactionInfo * info) throw (exceptions::ActiveMQException)` [virtual]

Implements `activemq::state::CommandVisitor` (p. 891).

6.179.2.25 virtual Pointer<Command> activemq::state::ConnectionStateTracker::processSessionInfo (SessionInfo * *info*) throw (exceptions::ActiveMQException)
[virtual]

Implements activemq::state::CommandVisitor (p. 891).

6.179.2.26 void activemq::state::ConnectionStateTracker::restore (const Pointer<transport::Transport > & *transport*) throw (decaf::io::IOException)

6.179.2.27 void activemq::state::ConnectionStateTracker::setMaxCacheSize (int *maxCacheSize*) [inline]

6.179.2.28 void activemq::state::ConnectionStateTracker::setRestoreConsumers (bool *restoreConsumers*) [inline]

6.179.2.29 void activemq::state::ConnectionStateTracker::setRestoreProducers (bool *restoreProducers*) [inline]

6.179.2.30 void activemq::state::ConnectionStateTracker::setRestoreSessions (bool *restoreSessions*) [inline]

6.179.2.31 void activemq::state::ConnectionStateTracker::setRestoreTransaction (bool *restoreTransaction*) [inline]

6.179.2.32 void activemq::state::ConnectionStateTracker::setTrackMessages (bool *trackMessages*) [inline]

6.179.2.33 void activemq::state::ConnectionStateTracker::setTrackTransactions (bool *trackTransactions*) [inline]

6.179.2.34 Pointer<Tracked> activemq::state::ConnectionStateTracker::track (const Pointer< Command > & *command*) throw (decaf::io::IOException)

6.179.2.35 void activemq::state::ConnectionStateTracker::trackBack (const Pointer< Command > & *command*)

6.179.3 Friends And Related Function Documentation

6.179.3.1 friend class RemoveTransactionAction [friend]

The documentation for this class was generated from the following file:

- src/main/activemq/state/ConnectionStateTracker.h

6.180 activemq::commands::ConsumerControl Class Reference

#include <src/main/activemq/commands/ConsumerControl.h> Inheritance diagram for activemq::commands::ConsumerControl:

Public Member Functions

- **ConsumerControl** ()
- virtual **~ConsumerControl** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ConsumerControl * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual bool **isClose** () const
- virtual void **setClose** (bool close)
- virtual const **Pointer**< **ConsumerId** > & **getConsumerId** () const
- virtual **Pointer**< **ConsumerId** > & **getConsumerId** ()
- virtual void **setConsumerId** (const **Pointer**< **ConsumerId** > &consumerId)
- virtual int **getPrefetch** () const
- virtual void **setPrefetch** (int prefetch)
- virtual bool **isFlush** () const
- virtual void **setFlush** (bool flush)
- virtual bool **isStart** () const
- virtual void **setStart** (bool start)
- virtual bool **isStop** () const
- virtual void **setStop** (bool stop)
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_CONSUMERCONTROL** = 17

Protected Member Functions

- **ConsumerControl** (const **ConsumerControl** &)
- **ConsumerControl** & **operator=** (const **ConsumerControl** &)

Protected Attributes

- bool **close**
- **Pointer**< **ConsumerId** > **consumerId**
- int **prefetch**
- bool **flush**
- bool **start**
- bool **stop**

6.180.1 Constructor & Destructor Documentation

6.180.1.1 **activemq::commands::ConsumerControl::ConsumerControl** (const **ConsumerControl** &) [inline, protected]

6.180.1.2 **activemq::commands::ConsumerControl::ConsumerControl** ()

6.180.1.3 **virtual activemq::commands::ConsumerControl::~~ConsumerControl** () [virtual]

6.180.2 Member Function Documentation

6.180.2.1 **virtual ConsumerControl* activemq::commands::ConsumerControl::cloneDataStructure** () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

6.180.2.2 **virtual void activemq::commands::ConsumerControl::copyDataStructure** (const **DataStructure** * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.180.2.3 `virtual bool activemq::commands::ConsumerControl::equals (const DataStructure * value) const` [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.180.2.4 `virtual Pointer<ConsumerId>& activemq::commands::ConsumerControl::getConsumerId ()` [virtual]

6.180.2.5 `virtual const Pointer<ConsumerId>& activemq::commands::ConsumerControl::getConsumerId () const` [virtual]

6.180.2.6 `virtual unsigned char activemq::commands::ConsumerControl::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.180.2.7 `virtual int activemq::commands::ConsumerControl::getPrefetch () const`
[virtual]
- 6.180.2.8 `virtual bool activemq::commands::ConsumerControl::isClose () const`
[virtual]
- 6.180.2.9 `virtual bool activemq::commands::ConsumerControl::isFlush () const`
[virtual]
- 6.180.2.10 `virtual bool activemq::commands::ConsumerControl::isStart () const`
[virtual]
- 6.180.2.11 `virtual bool activemq::commands::ConsumerControl::isStop () const`
[virtual]
- 6.180.2.12 `ConsumerControl& activemq::commands::ConsumerControl::operator=`
(const ConsumerControl &) [inline, protected]
- 6.180.2.13 `virtual void activemq::commands::ConsumerControl::setClose (bool`
close) [virtual]
- 6.180.2.14 `virtual void activemq::commands::ConsumerControl::setConsumerId`
(const Pointer< ConsumerId > & *consumerId*) [virtual]
- 6.180.2.15 `virtual void activemq::commands::ConsumerControl::setFlush (bool`
flush) [virtual]
- 6.180.2.16 `virtual void activemq::commands::ConsumerControl::setPrefetch (int`
prefetch) [virtual]
- 6.180.2.17 `virtual void activemq::commands::ConsumerControl::setStart (bool`
start) [virtual]
- 6.180.2.18 `virtual void activemq::commands::ConsumerControl::setStop (bool`
stop) [virtual]
- 6.180.2.19 `virtual std::string activemq::commands::ConsumerControl::toString ()`
const [virtual]

Returns a string containing the information for this **DataSet** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p.512).

6.180.2.20 `virtual Pointer<Command> activemq::commands::ConsumerControl::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.180.3 Field Documentation

6.180.3.1 `bool activemq::commands::ConsumerControl::close` [protected]

6.180.3.2 `Pointer<ConsumerId> activemq::commands::ConsumerControl::consumerId` [protected]

6.180.3.3 `bool activemq::commands::ConsumerControl::flush` [protected]

6.180.3.4 `const unsigned char activemq::commands::ConsumerControl::ID _- CONSUMERCONTROL = 17` [static]

6.180.3.5 `int activemq::commands::ConsumerControl::prefetch` [protected]

6.180.3.6 `bool activemq::commands::ConsumerControl::start` [protected]

6.180.3.7 `bool activemq::commands::ConsumerControl::stop` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ConsumerControl.h`

6.181 activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p.1033).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ConsumerControlMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller:

Public Member Functions

- **ConsumerControlMarshaller** ()
- virtual **~ConsumerControlMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.181.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p.1033). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.181.2 Constructor & Destructor Documentation

6.181.2.1 `activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::ConsumerControlMarshaller()` [inline]

6.181.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::~~ConsumerControlMarshaller()` [inline, virtual]

6.181.3 Member Function Documentation

6.181.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.181.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.181.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.181.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.181.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.181.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.181.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ConsumerControlMarshaller.h

6.182 activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p.1037).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ConsumerControlMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller:

Public Member Functions

- **ConsumerControlMarshaller** ()
- virtual **~ConsumerControlMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.182.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p.1037). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.182.2 Constructor & Destructor Documentation

6.182.2.1 `activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::ConsumerControlMarshaller()` [inline]

6.182.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::~~ConsumerControlMarshaller()` [inline, virtual]

6.182.3 Member Function Documentation

6.182.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.182.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.182.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.182.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.182.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.182.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.182.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ConsumerControlMarshaller.h

6.183 activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p.1041).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ConsumerControlMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller:

Public Member Functions

- **ConsumerControlMarshaller** ()
- virtual **~ConsumerControlMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.183.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p.1041). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.183.2 Constructor & Destructor Documentation

6.183.2.1 `activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::ConsumerControlMarshaller()` [inline]

6.183.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::~~ConsumerControlMarshaller()` [inline, virtual]

6.183.3 Member Function Documentation

6.183.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.183.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.183.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.183.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.183.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.183.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.183.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ConsumerControlMarshaller.h

6.184 activemq::commands::ConsumerId Class Reference

#include <src/main/activemq/commands/ConsumerId.h> Inheritance diagram for activemq::commands::ConsumerId:

Public Types

- typedef decaf::lang::PointerComparator< ConsumerId > COMPARATOR

Public Member Functions

- **ConsumerId** ()
- **ConsumerId** (const **ConsumerId** &other)
- **ConsumerId** (const **SessionId** &sessionId, long long consumerId)
- virtual ~**ConsumerId** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ConsumerId** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- const **Pointer**< **SessionId** > & **getParentId** () const
- virtual const std::string & **getConnectionId** () const
- virtual std::string & **getConnectionId** ()
- virtual void **setConnectionId** (const std::string &connectionId)
- virtual long long **getSessionId** () const
- virtual void **setSessionId** (long long sessionId)
- virtual long long **getValue** () const
- virtual void **setValue** (long long value)
- virtual int **compareTo** (const **ConsumerId** &value) const
- virtual bool **equals** (const **ConsumerId** &value) const
- virtual bool **operator==** (const **ConsumerId** &value) const
- virtual bool **operator<** (const **ConsumerId** &value) const
- **ConsumerId** & **operator=** (const **ConsumerId** &other)

Static Public Attributes

- static const unsigned char **ID_CONSUMERID** = 122

Protected Attributes

- std::string **connectionId**
- long long **sessionId**
- long long **value**

6.184.1 Member Typedef Documentation

6.184.1.1 `typedef decaf::lang::PointerComparator<ConsumerId>
activemq::commands::ConsumerId::COMPARATOR`

6.184.2 Constructor & Destructor Documentation

6.184.2.1 `activemq::commands::ConsumerId::ConsumerId ()`

6.184.2.2 `activemq::commands::ConsumerId::ConsumerId (const ConsumerId &
other)`

6.184.2.3 `activemq::commands::ConsumerId::ConsumerId (const SessionId &
sessionId, long long consumerId) [inline]`

References `activemq::commands::SessionId::getConnectionId()`, and `activemq::commands::SessionId::getValue()`.

6.184.2.4 `virtual activemq::commands::ConsumerId::~~ConsumerId () [virtual]`

6.184.3 Member Function Documentation

6.184.3.1 `virtual ConsumerId* activemq::commands::ConsumerId::cloneDataStructure ()
const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.184.3.2 `virtual int activemq::commands::ConsumerId::compareTo (const
ConsumerId & value) const [virtual]`

6.184.3.3 `virtual void activemq::commands::ConsumerId::copyDataStructure
(const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.184.3.4 virtual bool activemq::commands::ConsumerId::equals (const ConsumerId & *value*) const [virtual]

6.184.3.5 virtual bool activemq::commands::ConsumerId::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.184.3.6 virtual std::string& activemq::commands::ConsumerId::getConnectionId () [virtual]

6.184.3.7 virtual const std::string& activemq::commands::ConsumerId::getConnectionId () const [virtual]

6.184.3.8 virtual unsigned char activemq::commands::ConsumerId::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.184.3.9 `const Pointer<SessionId>& activemq::commands::ConsumerId::getParentId () const`
- 6.184.3.10 `virtual long long activemq::commands::ConsumerId::getSessionId () const [virtual]`
- 6.184.3.11 `virtual long long activemq::commands::ConsumerId::getValue () const [virtual]`
- 6.184.3.12 `virtual bool activemq::commands::ConsumerId::operator< (const ConsumerId & value) const [virtual]`
- 6.184.3.13 `ConsumerId& activemq::commands::ConsumerId::operator= (const ConsumerId & other)`
- 6.184.3.14 `virtual bool activemq::commands::ConsumerId::operator== (const ConsumerId & value) const [virtual]`
- 6.184.3.15 `virtual void activemq::commands::ConsumerId::setConnectionId (const std::string & connectionId) [virtual]`
- 6.184.3.16 `virtual void activemq::commands::ConsumerId::setSessionId (long long sessionId) [virtual]`
- 6.184.3.17 `virtual void activemq::commands::ConsumerId::setValue (long long value) [virtual]`
- 6.184.3.18 `virtual std::string activemq::commands::ConsumerId::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseDataStructure` (p.560).

6.184.4 Field Documentation

- 6.184.4.1 `std::string activemq::commands::ConsumerId::connectionId [protected]`
- 6.184.4.2 `const unsigned char activemq::commands::ConsumerId::ID _ - CONSUMERID = 122 [static]`

Referenced by `activemq::state::CommandVisitorAdapter::processRemoveInfo()`.

6.184.4.3 `long long activemq::commands::ConsumerId::sessionId` [protected]

6.184.4.4 `long long activemq::commands::ConsumerId::value` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ConsumerId.h`

6.185 activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p.1050).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ConsumerIdMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller:

Public Member Functions

- **ConsumerIdMarshaller** ()
- virtual **~ConsumerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.185.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p.1050). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.185.2 Constructor & Destructor Documentation

6.185.2.1 `activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::ConsumerIdMarshaller()` `[inline]`

6.185.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::~~ConsumerIdMarshaller()` `[inline, virtual]`

6.185.3 Member Function Documentation

6.185.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.185.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.185.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.185.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.185.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.185.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.185.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ConsumerIdMarshaller.h

6.186 activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p.1054).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ConsumerIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller:

Public Member Functions

- **ConsumerIdMarshaller** ()
- virtual **~ConsumerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.186.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p.1054). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.186.2 Constructor & Destructor Documentation

6.186.2.1 `activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::ConsumerIdMarshaller()` `[inline]`

6.186.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::~~ConsumerIdMarshaller()` `[inline, virtual]`

6.186.3 Member Function Documentation

6.186.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.186.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.186.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.186.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.186.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.186.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.186.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ConsumerIdMarshaller.h

6.187 activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p.1058).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ConsumerIdMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller:

Public Member Functions

- **ConsumerIdMarshaller** ()
- virtual **~ConsumerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.187.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p.1058). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.187.2 Constructor & Destructor Documentation

6.187.2.1 `activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::ConsumerIdMarshaller()` [inline]

6.187.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::~~ConsumerIdMarshaller()` [inline, virtual]

6.187.3 Member Function Documentation

6.187.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.187.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.187.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.187.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::looseUnmarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.187.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::tightMarshal1** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.187.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.187.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ConsumerIdMarshaller.h

6.188 activemq::commands::ConsumerInfo Class Reference

#include <src/main/activemq/commands/ConsumerInfo.h> Inheritance diagram for activemq::commands::ConsumerInfo:

Public Member Functions

- **ConsumerInfo** ()
- virtual **~ConsumerInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ConsumerInfo** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConsumerId** > & **getConsumerId** () const
- virtual **Pointer**< **ConsumerId** > & **getConsumerId** ()
- virtual void **setConsumerId** (const **Pointer**< **ConsumerId** > &consumerId)
- virtual bool **isBrowser** () const
- virtual void **setBrowser** (bool browser)
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual int **getPrefetchSize** () const
- virtual void **setPrefetchSize** (int prefetchSize)
- virtual int **getMaximumPendingMessageLimit** () const
- virtual void **setMaximumPendingMessageLimit** (int maximumPendingMessageLimit)
- virtual bool **isDispatchAsync** () const
- virtual void **setDispatchAsync** (bool dispatchAsync)
- virtual const std::string & **getSelector** () const
- virtual std::string & **getSelector** ()
- virtual void **setSelector** (const std::string &selector)
- virtual const std::string & **getSubscriptionName** () const
- virtual std::string & **getSubscriptionName** ()
- virtual void **setSubscriptionName** (const std::string &subscriptionName)
- virtual bool **isNoLocal** () const

- virtual void **setNoLocal** (bool **noLocal**)
- virtual bool **isExclusive** () const
- virtual void **setExclusive** (bool **exclusive**)
- virtual bool **isRetroactive** () const
- virtual void **setRetroactive** (bool **retroactive**)
- virtual unsigned char **getPriority** () const
- virtual void **setPriority** (unsigned char **priority**)
- virtual const std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** () const
- virtual std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** ()
- virtual void **setBrokerPath** (const std::vector< **decaf::lang::Pointer**< **BrokerId** > > &**brokerPath**)
- virtual const **Pointer**< **BooleanExpression** > & **getAdditionalPredicate** () const
- virtual **Pointer**< **BooleanExpression** > & **getAdditionalPredicate** ()
- virtual void **setAdditionalPredicate** (const **Pointer**< **BooleanExpression** > &**additionalPredicate**)
- virtual bool **isNetworkSubscription** () const
- virtual void **setNetworkSubscription** (bool **networkSubscription**)
- virtual bool **isOptimizedAcknowledge** () const
- virtual void **setOptimizedAcknowledge** (bool **optimizedAcknowledge**)
- virtual bool **isNoRangeAcks** () const
- virtual void **setNoRangeAcks** (bool **noRangeAcks**)
- virtual bool **isConsumerInfo** () const
- virtual **Pointer**< **Command** > **visit** (**activemq::state::CommandVisitor** *visitor) throw (**exceptions::ActiveMQException**)

Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_CONSUMERINFO** = 5

Protected Member Functions

- **ConsumerInfo** (const **ConsumerInfo** &)
- **ConsumerInfo** & **operator=** (const **ConsumerInfo** &)

Protected Attributes

- **Pointer**< **ConsumerId** > **consumerId**
- bool **browser**
- **Pointer**< **ActiveMQDestination** > **destination**
- int **prefetchSize**
- int **maximumPendingMessageLimit**
- bool **dispatchAsync**
- std::string **selector**
- std::string **subscriptionName**
- bool **noLocal**

- bool **exclusive**
- bool **retroactive**
- unsigned char **priority**
- std::vector< **decaf::lang::Pointer< BrokerId > > brokerPath**
- **Pointer< BooleanExpression > additionalPredicate**
- bool **networkSubscription**
- bool **optimizedAcknowledge**
- bool **noRangeAcks**

6.188.1 Constructor & Destructor Documentation

6.188.1.1 `activemq::commands::ConsumerInfo::ConsumerInfo (const ConsumerInfo &) [inline, protected]`

6.188.1.2 `activemq::commands::ConsumerInfo::ConsumerInfo ()`

6.188.1.3 `virtual activemq::commands::ConsumerInfo::~~ConsumerInfo () [virtual]`

6.188.2 Member Function Documentation

6.188.2.1 `virtual ConsumerInfo* activemq::commands::ConsumerInfo::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.188.2.2 `virtual void activemq::commands::ConsumerInfo::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.188.2.3 `virtual bool activemq::commands::ConsumerInfo::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

- 6.188.2.4 **virtual Pointer<BooleanExpression>& activemq::commands::ConsumerInfo::getAdditionalPredicate ()** [virtual]
- 6.188.2.5 **virtual const Pointer<BooleanExpression>& activemq::commands::ConsumerInfo::getAdditionalPredicate () const** [virtual]
- 6.188.2.6 **virtual std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::ConsumerInfo::getBrokerPath ()** [virtual]
- 6.188.2.7 **virtual const std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::ConsumerInfo::getBrokerPath () const** [virtual]
- 6.188.2.8 **virtual Pointer<ConsumerId>& activemq::commands::ConsumerInfo::getConsumerId ()** [virtual]
- 6.188.2.9 **virtual const Pointer<ConsumerId>& activemq::commands::ConsumerInfo::getConsumerId () const** [virtual]
- 6.188.2.10 **virtual unsigned char activemq::commands::ConsumerInfo::getDataStructureType () const** [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.188.2.11 `virtual Pointer<ActiveMQDestination>& activemq::commands::ConsumerInfo::getDestination ()`
[virtual]
- 6.188.2.12 `virtual const Pointer<ActiveMQDestination>& activemq::commands::ConsumerInfo::getDestination () const` [virtual]
- 6.188.2.13 `virtual int activemq::commands::ConsumerInfo::getMaximumPendingMessageLimit () const` [virtual]
- 6.188.2.14 `virtual int activemq::commands::ConsumerInfo::getPrefetchSize () const`
[virtual]
- 6.188.2.15 `virtual unsigned char activemq::commands::ConsumerInfo::getPriority () const` [virtual]
- 6.188.2.16 `virtual std::string& activemq::commands::ConsumerInfo::getSelector ()`
[virtual]
- 6.188.2.17 `virtual const std::string& activemq::commands::ConsumerInfo::getSelector () const`
[virtual]
- 6.188.2.18 `virtual std::string& activemq::commands::ConsumerInfo::getSubscriptionName ()` [virtual]
- 6.188.2.19 `virtual const std::string& activemq::commands::ConsumerInfo::getSubscriptionName () const` [virtual]
- 6.188.2.20 `virtual bool activemq::commands::ConsumerInfo::isBrowser () const`
[virtual]
- 6.188.2.21 `virtual bool activemq::commands::ConsumerInfo::isConsumerInfo () const` [inline, virtual]

Returns:

an answer of true to the `isConsumerInfo()` (p. 1066) query.

Reimplemented from `activemq::commands::BaseCommand` (p. 510).

-
- 6.188.2.22 virtual bool activemq::commands::ConsumerInfo::isDispatchAsync () const [virtual]
 - 6.188.2.23 virtual bool activemq::commands::ConsumerInfo::isExclusive () const [virtual]
 - 6.188.2.24 virtual bool activemq::commands::ConsumerInfo::isNetworkSubscription () const [virtual]
 - 6.188.2.25 virtual bool activemq::commands::ConsumerInfo::isNoLocal () const [virtual]
 - 6.188.2.26 virtual bool activemq::commands::ConsumerInfo::isNoRangeAcks () const [virtual]
 - 6.188.2.27 virtual bool activemq::commands::ConsumerInfo::isOptimizedAcknowledge () const [virtual]
 - 6.188.2.28 virtual bool activemq::commands::ConsumerInfo::isRetroactive () const [virtual]
 - 6.188.2.29 ConsumerInfo& activemq::commands::ConsumerInfo::operator= (const ConsumerInfo &) [inline, protected]
 - 6.188.2.30 virtual void activemq::commands::ConsumerInfo::setAdditionalPredicate (const Pointer< BooleanExpression > & *additionalPredicate*) [virtual]
 - 6.188.2.31 virtual void activemq::commands::ConsumerInfo::setBrokerPath (const std::vector< decaf::lang::Pointer< BrokerId > > & *brokerPath*) [virtual]
 - 6.188.2.32 virtual void activemq::commands::ConsumerInfo::setBrowser (bool *browser*) [virtual]
 - 6.188.2.33 virtual void activemq::commands::ConsumerInfo::setConsumerId (const Pointer< ConsumerId > & *consumerId*) [virtual]
 - 6.188.2.34 virtual void activemq::commands::ConsumerInfo::setDestination (const Pointer< ActiveMQDestination > & *destination*) [virtual]
 - 6.188.2.35 virtual void activemq::commands::ConsumerInfo::setDispatchAsync (bool *dispatchAsync*) [virtual]
 - 6.188.2.36 virtual void activemq::commands::ConsumerInfo::setExclusive (bool *exclusive*) [virtual]
 - 6.188.2.37 virtual void activemq::commands::ConsumerInfo::setMaximumPendingMessageLimit (int *maximumPendingMessageLimit*) [virtual]
 - 6.188.2.38 virtual void activemq::commands::ConsumerInfo::setNetworkSubscription (bool *networkSubscription*) [virtual]
 - 6.188.2.39 virtual void activemq::commands::ConsumerInfo::setNoLocal (bool *noLocal*) [virtual]
 - 6.188.2.40 virtual void activemq::commands::ConsumerInfo::setNoRangeAcks (bool *noRangeAcks*) [virtual]
 - 6.188.2.41 virtual void ac-
-

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.188.2.48 `virtual Pointer<Command> activemq::commands::ConsumerInfo::visit
(activemq::state::CommandVisitor * visitor) throw (
exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.188.3 Field Documentation

- 6.188.3.1 `Pointer<BooleanExpression> activemq::commands::ConsumerInfo::additionalPredicate` [protected]
- 6.188.3.2 `std::vector< decaf::lang::Pointer<BrokerId> > activemq::commands::ConsumerInfo::brokerPath` [protected]
- 6.188.3.3 `bool activemq::commands::ConsumerInfo::browser` [protected]
- 6.188.3.4 `Pointer<ConsumerId> activemq::commands::ConsumerInfo::consumerId` [protected]
- 6.188.3.5 `Pointer<ActiveMQDestination> activemq::commands::ConsumerInfo::destination` [protected]
- 6.188.3.6 `bool activemq::commands::ConsumerInfo::dispatchAsync` [protected]
- 6.188.3.7 `bool activemq::commands::ConsumerInfo::exclusive` [protected]
- 6.188.3.8 `const unsigned char activemq::commands::ConsumerInfo::ID_ - CONSUMERINFO = 5` [static]
- 6.188.3.9 `int activemq::commands::ConsumerInfo::maximumPendingMessageLimit` [protected]
- 6.188.3.10 `bool activemq::commands::ConsumerInfo::networkSubscription` [protected]
- 6.188.3.11 `bool activemq::commands::ConsumerInfo::noLocal` [protected]
- 6.188.3.12 `bool activemq::commands::ConsumerInfo::noRangeAcks` [protected]
- 6.188.3.13 `bool activemq::commands::ConsumerInfo::optimizedAcknowledge` [protected]
- 6.188.3.14 `int activemq::commands::ConsumerInfo::prefetchSize` [protected]
- 6.188.3.15 `unsigned char activemq::commands::ConsumerInfo::priority` [protected]
- 6.188.3.16 `bool activemq::commands::ConsumerInfo::retroactive` [protected]
- 6.188.3.17 `std::string activemq::commands::ConsumerInfo::selector` [protected]
- 6.188.3.18 `std::string activemq::commands::ConsumerInfo::subscriptionName` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ConsumerInfo.h`

6.189 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1070).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ConsumerInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller:

Public Member Functions

- **ConsumerInfoMarshaller** ()
- virtual **~ConsumerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.189.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1070). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.189.2 Constructor & Destructor Documentation

6.189.2.1 `activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::ConsumerInfoMarshaller()` [inline]

6.189.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::~~ConsumerInfoMarshaller()` [inline, virtual]

6.189.3 Member Function Documentation

6.189.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.189.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.189.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.189.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.189.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.189.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.189.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ConsumerInfoMarshaller.h

6.190 activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1074).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ConsumerInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller:

Public Member Functions

- **ConsumerInfoMarshaller** ()
- virtual **~ConsumerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.190.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1074). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.190.2 Constructor & Destructor Documentation

6.190.2.1 `activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::ConsumerInfoMarshaller()` `[inline]`

6.190.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::~~ConsumerInfoMarshaller()` `[inline, virtual]`

6.190.3 Member Function Documentation

6.190.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.190.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.190.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.190.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.190.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.190.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.190.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ConsumerInfoMarshaller.h**

6.191 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1078).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ConsumerInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller:

Public Member Functions

- **ConsumerInfoMarshaller** ()
- virtual **~ConsumerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.191.1 Detailed Description

Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1078). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.191.2 Constructor & Destructor Documentation

6.191.2.1 `activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::ConsumerInfoMarshaller()` `[inline]`

6.191.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::~~ConsumerInfoMarshaller()` `[inline, virtual]`

6.191.3 Member Function Documentation

6.191.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.191.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.191.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.191.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.191.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.191.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.191.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ConsumerInfoMarshaller.h

6.192 activemq::state::ConsumerState Class Reference

```
#include <src/main/activemq/state/ConsumerState.h>
```

Public Member Functions

- **ConsumerState** (const **Pointer**< **ConsumerInfo** > &info)
- virtual **~ConsumerState** ()
- std::string **toString** () const
- const **Pointer**< **ConsumerInfo** > & **getInfo** () const

6.192.1 Constructor & Destructor Documentation

- 6.192.1.1 **activemq::state::ConsumerState::ConsumerState** (const **Pointer**< **ConsumerInfo** > & *info*)
- 6.192.1.2 virtual **activemq::state::ConsumerState::~~ConsumerState** () [virtual]

6.192.2 Member Function Documentation

- 6.192.2.1 const **Pointer**<**ConsumerInfo**>& **activemq::state::ConsumerState::getInfo** () const [inline]
- 6.192.2.2 std::string **activemq::state::ConsumerState::toString** () const

The documentation for this class was generated from the following file:

- src/main/activemq/state/**ConsumerState.h**

6.193 activemq::commands::ControlCommand Class Reference

#include <src/main/activemq/commands/ControlCommand.h> Inheritance diagram for activemq::commands::ControlCommand:

Public Member Functions

- **ControlCommand** ()
- virtual **~ControlCommand** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ControlCommand * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const std::string & **getCommand** () const
- virtual std::string & **getCommand** ()
- virtual void **setCommand** (const std::string &command)
- virtual **Pointer< Command > visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_CONTROLCOMMAND** = 14

Protected Member Functions

- **ControlCommand** (const **ControlCommand** &)
- **ControlCommand & operator=** (const **ControlCommand** &)

Protected Attributes

- std::string **command**

6.193.1 Constructor & Destructor Documentation

6.193.1.1 `activemq::commands::ControlCommand::ControlCommand (const ControlCommand &) [inline, protected]`

6.193.1.2 `activemq::commands::ControlCommand::ControlCommand ()`

6.193.1.3 `virtual activemq::commands::ControlCommand::~~ControlCommand () [virtual]`

6.193.2 Member Function Documentation

6.193.2.1 `virtual ControlCommand* activemq::commands::ControlCommand::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.193.2.2 `virtual void activemq::commands::ControlCommand::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.193.2.3 `virtual bool activemq::commands::ControlCommand::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

- 6.193.2.4** `virtual std::string& activemq::commands::ControlCommand::getCommand ()`
[virtual]
- 6.193.2.5** `virtual const std::string& activemq::commands::ControlCommand::getCommand ()`
`const` [virtual]
- 6.193.2.6** `virtual unsigned char activemq::commands::ControlCommand::getDataStructureType ()` `const`
[virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

- 6.193.2.7** `ControlCommand& activemq::commands::ControlCommand::operator=`
`(const ControlCommand &)` [inline, protected]
- 6.193.2.8** `virtual void activemq::commands::ControlCommand::setCommand (const`
`std::string & command)` [virtual]
- 6.193.2.9** `virtual std::string activemq::commands::ControlCommand::toString ()`
`const` [virtual]

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

- 6.193.2.10** `virtual Pointer<Command> activemq::commands::ControlCommand::visit`
`(activemq::state::CommandVisitor * visitor) throw (`
`exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.193.3 Field Documentation

6.193.3.1 `std::string activemq::commands::ControlCommand::command`
[protected]

6.193.3.2 `const unsigned char activemq::commands::ControlCommand::ID_ -
CONTROLCOMMAND = 14` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ControlCommand.h`

6.194 activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1087).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ControlCommandMarshaller.h>Inheritance
diagram for activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller:

Public Member Functions

- **ControlCommandMarshaller** ()
- virtual **~ControlCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.194.1 Detailed Description

Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1087). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.194.2 Constructor & Destructor Documentation

6.194.2.1 `activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::ControlComm`
`() [inline]`

6.194.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::~~ControlComm`
`() [inline, virtual]`

6.194.3 Member Function Documentation

6.194.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.194.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::getDataStructur`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.194.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.194.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.194.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.194.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.194.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ControlCommandMarshaller.h

6.195 activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1091).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ControlCommandMarshaller.h>Inheritance
diagram for activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller:

Public Member Functions

- **ControlCommandMarshaller** ()
- virtual **~ControlCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.195.1 Detailed Description

Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1091). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.195.2 Constructor & Destructor Documentation

6.195.2.1 `activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::ControlComm`
`() [inline]`

6.195.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::~~ControlComm`
`() [inline, virtual]`

6.195.3 Member Function Documentation

6.195.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.195.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::getDataStructur`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.195.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.195.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.195.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.195.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.195.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ControlCommandMarshaller.h

6.196 activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1095).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ControlCommandMarshaller.h>Inheritance
diagram for activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller:

Public Member Functions

- **ControlCommandMarshaller** ()
- virtual **~ControlCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.196.1 Detailed Description

Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1095). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.196.2 Constructor & Destructor Documentation

6.196.2.1 `activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::ControlComm`
`() [inline]`

6.196.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::~~ControlComm`
`() [inline, virtual]`

6.196.3 Member Function Documentation

6.196.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.196.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::getDataStructur`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.196.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.196.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.196.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.196.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.196.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ControlCommandMarshaller.h

6.197 decaf::util::concurrent::CountDownLatch Class Reference

```
#include <src/main/decaf/util/concurrent/CountDownLatch.h>
```

Public Member Functions

- **CountDownLatch** (int count)
Constructor.
- virtual **~CountDownLatch** ()
- virtual void **await** () throw (lang::Exception)
Waits for the Count to be zero, and then returns.
- virtual bool **await** (unsigned long timeOut) throw (lang::Exception)
Waits for the Count to hit zero, or a timeout.
- virtual void **countDown** ()
Counts down the latch, releasing all waiting threads when the count hits zero.
- virtual int **getCount** () const
Gets the current count.

6.197.1 Constructor & Destructor Documentation

6.197.1.1 decaf::util::concurrent::CountDownLatch::CountDownLatch (int count)

Constructor.

Parameters:

count - number to count down from.

6.197.1.2 virtual decaf::util::concurrent::CountDownLatch::~~CountDownLatch () [virtual]

6.197.2 Member Function Documentation

6.197.2.1 virtual bool decaf::util::concurrent::CountDownLatch::await (unsigned long timeOut) throw (lang::Exception) [virtual]

Waits for the Count to hit zero, or a timeout.

Parameters:

timeOut - time in milliseconds to wait.

Returns:

true if the wait made it to count zero, otherwise false

6.197.2.2 `virtual void decaf::util::concurrent::CountDownLatch::await () throw (lang::Exception) [virtual]`

Waits for the Count to be zero, and then returns.

Exceptions:

CMSException

6.197.2.3 `virtual void decaf::util::concurrent::CountDownLatch::countDown () [virtual]`

Counts down the latch, releasing all waiting threads when the count hits zero.

6.197.2.4 `virtual int decaf::util::concurrent::CountDownLatch::getCount () const [inline, virtual]`

Gets the current count.

Returns:

int count value

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/CountDownLatch.h`

6.198 activemq::commands::DataArrayResponse Class Reference

#include <src/main/activemq/commands/DataArrayResponse.h> Inheritance diagram for activemq::commands::DataArrayResponse:

Public Member Functions

- **DataArrayResponse** ()
- virtual **~DataArrayResponse** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **DataArrayResponse * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const std::vector< **decaf::lang::Pointer**< **DataStructure** > > & **getData** () const
- virtual std::vector< **decaf::lang::Pointer**< **DataStructure** > > & **getData** ()
- virtual void **setData** (const std::vector< **decaf::lang::Pointer**< **DataStructure** > > &data)

Static Public Attributes

- static const unsigned char **ID_DATAARRAYRESPONSE** = 33

Protected Member Functions

- **DataArrayResponse** (const **DataArrayResponse** &)
- **DataArrayResponse** & **operator=** (const **DataArrayResponse** &)

Protected Attributes

- std::vector< **decaf::lang::Pointer**< **DataStructure** > > **data**

6.198.1 Constructor & Destructor Documentation

6.198.1.1 `activemq::commands::DataArrayResponse::DataArrayResponse (const DataArrayResponse &) [inline, protected]`

6.198.1.2 `activemq::commands::DataArrayResponse::DataArrayResponse ()`

6.198.1.3 `virtual activemq::commands::DataArrayResponse::~~DataArrayResponse () [virtual]`

6.198.2 Member Function Documentation

6.198.2.1 `virtual DataArrayResponse* activemq::commands::DataArrayResponse::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::Response` (p. 2232).

6.198.2.2 `virtual void activemq::commands::DataArrayResponse::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::Response` (p. 2232).

6.198.2.3 `virtual bool activemq::commands::DataArrayResponse::equals (const DataStructure * value) const [virtual]`

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::Response` (p. 2232).

- 6.198.2.4** `virtual std::vector< decaf::lang::Pointer<DataStructure> >& activemq::commands::DataArrayResponse::getData () [virtual]`
- 6.198.2.5** `virtual const std::vector< decaf::lang::Pointer<DataStructure> >& activemq::commands::DataArrayResponse::getData () const [virtual]`
- 6.198.2.6** `virtual unsigned char activemq::commands::DataArrayResponse::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from **activemq::commands::Response** (p. 2233).

- 6.198.2.7** `DataArrayResponse& activemq::commands::DataArrayResponse::operator= (const DataArrayResponse &) [inline, protected]`

Reimplemented from **activemq::commands::Response** (p. 2233).

- 6.198.2.8** `virtual void activemq::commands::DataArrayResponse::setData (const std::vector< decaf::lang::Pointer< DataStructure > > & data) [virtual]`
- 6.198.2.9** `virtual std::string activemq::commands::DataArrayResponse::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::Response** (p. 2233).

6.198.3 Field Documentation

- 6.198.3.1** `std::vector< decaf::lang::Pointer<DataStructure> > activemq::commands::DataArrayResponse::data [protected]`
- 6.198.3.2** `const unsigned char activemq::commands::DataArrayResponse::ID_ - DATAARRAYRESPONSE = 33 [static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/DataArrayResponse.h`

6.199 activemq::wireformat::openwire::marshal::v3::DataArrayResponse Class Reference

Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1104).

#include <src/main/activemq/wireformat/openwire/marshal/v3/DataArrayResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller:

Public Member Functions

- **DataArrayResponseMarshaller** ()
- virtual **~DataArrayResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.199.1 Detailed Description

Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1104). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.199.2 Constructor & Destructor Documentation

6.199.2.1 `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::DataArrayResponseMarshaller()` [inline]

6.199.2.2 `virtual activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::~~DataArrayResponseMarshaller()` [inline, virtual]

6.199.3 Member Function Documentation

6.199.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.199.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.199.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.199.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.199.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.199.3.6 virtual void activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2249).

6.199.3.7 virtual void activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2250).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**DataArrayResponseMarshaller.h**

6.200 activemq::wireformat::openwire::marshal::v1::DataArrayResponse Class Reference

Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1108).

#include <src/main/activemq/wireformat/openwire/marshal/v1/DataArrayResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller:

Public Member Functions

- **DataArrayResponseMarshaller** ()
- virtual **~DataArrayResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.200.1 Detailed Description

Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1108). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.200.2 Constructor & Destructor Documentation

6.200.2.1 `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::DataArrayResponseMarshaller()` [inline]

6.200.2.2 `virtual activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::~~DataArrayResponseMarshaller()` [inline, virtual]

6.200.3 Member Function Documentation

6.200.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.200.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.200.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.200.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2253).

6.200.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2253).

6.200.3.6 virtual void activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2254).

6.200.3.7 virtual void activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2255).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**DataArrayResponseMarshaller.h**

6.201 activemq::wireformat::openwire::marshal::v2::DataArrayResponse Class Reference

Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1112).

#include <src/main/activemq/wireformat/openwire/marshal/v2/DataArrayResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller:

Public Member Functions

- **DataArrayResponseMarshaller** ()
- virtual **~DataArrayResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.201.1 Detailed Description

Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1112). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.201.2 Constructor & Destructor Documentation

6.201.2.1 `activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::DataArrayResponseMarshaller()` [inline]

6.201.2.2 `virtual activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::~DataArrayResponseMarshaller()` [inline, virtual]

6.201.3 Member Function Documentation

6.201.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.201.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.201.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.201.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2243).

6.201.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2243).

6.201.3.6 virtual void activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2244).

6.201.3.7 virtual void activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2245).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**DataArrayResponseMarshaller.h**

6.202 decaf::io::DataInputStream Class Reference

A data input stream lets an application read primitive Java data types from an underlying input stream in a machine-independent way.

#include <src/main/decaf/io/DataInputStream.h> Inheritance diagram for decaf::io::DataInputStream:

Public Member Functions

- **DataInputStream** (**InputStream** *inputStream, bool own=false)
*Creates a **DataInputStream** (p. 1116) that uses the specified underlying **InputStream** (p. 1406).*
- virtual ~**DataInputStream** ()
- virtual int **read** (std::vector< unsigned char > &buffer) throw (io::IOException)
Reads some number of bytes from the contained input stream and stores them into the buffer array b.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t length) throw (io::IOException, lang::exceptions::NullPointerException)
Reads up to len bytes of data from the contained input stream into an array of bytes.
- virtual bool **readBoolean** () throw (io::IOException, io::EOFException)
Reads one input byte and returns true if that byte is nonzero, false if that byte is zero.
- virtual char **readByte** () throw (io::IOException, io::EOFException)
Reads and returns one input byte.
- virtual unsigned char **readUnsignedByte** () throw (io::IOException, io::EOFException)
Reads one input byte, zero-extends it to type int, and returns the result, which is therefore in the range 0 through 255.
- virtual char **readChar** () throw (io::IOException, io::EOFException)
Reads an input char and returns the char value.
- virtual double **readDouble** () throw (io::IOException, io::EOFException)
Reads eight input bytes and returns a double value.
- virtual float **readFloat** () throw (io::IOException, io::EOFException)
Reads four input bytes and returns a float value.
- virtual int **readInt** () throw (io::IOException, io::EOFException)
Reads four input bytes and returns an int value.
- virtual long long **readLong** () throw (io::IOException, io::EOFException)
Reads eight input bytes and returns a long value.

- virtual short **readShort** () throw (io::IOException, io::EOFException)
Reads two input bytes and returns a short value.
- virtual unsigned short **readUnsignedShort** () throw (io::IOException, io::EOFException)
Reads two input bytes and returns an int value in the range 0 through 65535.
- virtual std::string **readString** () throw (io::IOException, io::EOFException)
Reads an null terminated ASCII string to the stream and returns the string to the caller.
- virtual std::string **readUTF** () throw (io::IOException, io::EOFException, io::UTFDataFormatException)
Reads a modified UTF-8 encoded string in ASCII format and returns it, this is only useful if you know for sure that the string that is to be read was a string that contained all ASCII values (0-255), if so this method will throw a UTFFormatException.
- virtual void **readFully** (std::vector< unsigned char > &buffer) throw (io::IOException, io::EOFException)
Reads some bytes from an input stream and stores them into the buffer array buffer.
- virtual void **readFully** (unsigned char *buffer, std::size_t offset, std::size_t length) throw (io::IOException, io::EOFException, lang::exceptions::NullPointerException)
Reads length bytes from an input stream.
- virtual std::size_t **skip** (std::size_t num) throw (io::IOException, lang::exceptions::UnsupportedOperationException)
Makes an attempt to skip over n bytes of data from the input stream, discarding the skipped bytes.

6.202.1 Detailed Description

A data input stream lets an application read primitive Java data types from an underlying input stream in a machine-independent way. An application uses a data output stream to write data that can later be read by a data input stream.

Due to the lack of garbage collection in C++ a design decision was made to add a boolean parameter to the constructor indicating if the wrapped `InputStream` (p.1406) is owned by this object. That way creation of the underlying stream can occur in a Java like way. Ex:

```
DataInputStream (p.1116) os = new DataInputStream (p.1116)( new InputStream(), true )
```

Since:

1.0

6.202.2 Constructor & Destructor Documentation

6.202.2.1 decaf::io::DataInputStream::DataInputStream (InputStream * inputStream, bool own = false)

Creates a **DataInputStream** (p.1116) that uses the specified underlying **InputStream** (p.1406).

Parameters:

inputStream the **InputStream** (p. 1406) instance to wrap.
own indicates if this class owns the wrapped string defaults to false.

6.202.2.2 `virtual decaf::io::DataInputStream::~~DataInputStream ()` [virtual]

6.202.3 Member Function Documentation

6.202.3.1 `virtual int decaf::io::DataInputStream::read (unsigned char * buffer,
std::size_t offset, std::size_t length) throw (io::IOException,
lang::exceptions::NullPointerException)` [virtual]

Reads up to len bytes of data from the contained input stream into an array of bytes. An attempt is made to read as many as len bytes, but a smaller number may be read, possibly zero. The number of bytes actually read is returned as an integer.

This method blocks until input data is available, end of file is detected, or an exception is thrown.

If buffer is null, a NullPointerException is thrown.

If off is negative, or len is negative then an IndexOutOfBoundsException is thrown, if off + len is greater than the allocated length of the array, an **IOException** (p. 1477) will result depending on the platform and compiler settings.

If len is zero, then no bytes are read and 0 is returned; otherwise, there is an attempt to read at least one byte. If no byte is available because the stream is at end of file, the value -1 is returned; otherwise, at least one byte is read and stored into buffer.

The first byte read is stored into element b[off], the next one into buffer[off+1], and so on. The number of bytes read is, at most, equal to len. Let k be the number of bytes actually read; these bytes will be stored in elements buffer[off] through buffer[off+k-1], leaving elements buffer[off+k] through buffer[off+len-1] unaffected.

In every case, elements buffer[0] through buffer[off] and elements buffer[off+len] through buffer[buffer.length-1] are unaffected.

If the first byte cannot be read for any reason other than end of file, then an **IOException** (p. 1477) is thrown. In particular, an **IOException** (p. 1477) is thrown if the input stream has been closed.

Parameters:

buffer - byte array to insert read data into
offset - location in buffer to start writing
length - number of bytes to read

Returns:

the total number of bytes read, or -1 if there is no more data because the stream is EOF.

Exceptions:

IOException (p. 1477)
NullPointerException if the buffer is null

Reimplemented from **decaf::io::FilterInputStream** (p. 1319).

6.202.3.2 virtual int decaf::io::DataInputStream::read (std::vector< unsigned char > & *buffer*) throw (io::IOException) [virtual]

Reads some number of bytes from the contained input stream and stores them into the buffer array *b*. The number of bytes actually read is returned as an integer. This method blocks until input data is available, end of file is detected, or an exception is thrown.

If the length of *buffer* is zero, then no bytes are read and 0 is returned; otherwise, there is an attempt to read at least one byte. If no byte is available because the stream is at end of file, the value -1 is returned; otherwise, at least one byte is read and stored into *buffer*.

The first byte read is stored into element *buffer*[0], the next one into *buffer*[1], and so on. The number of bytes read is, at most, equal to the length of *buffer*. Let *k* be the number of bytes actually read; these bytes will be stored in elements *b*[0] through *b*[*k*-1], leaving elements *buffer*[*k*] through *buffer*[*buffer*.length-1] unaffected.

If the first byte cannot be read for any reason other than end of file, then an **IOException** (p.1477) is thrown. In particular, an **IOException** (p.1477) is thrown if the input stream has been closed.

The *read(buffer)* method has the same effect as: *read(buffer, 0, b.length)*

Parameters:

buffer - byte array to insert read data into

Returns:

the total number of bytes read, or -1 if there is no more data because the stream is EOF.

Exceptions:

IOException (p. 1477)

6.202.3.3 virtual bool decaf::io::DataInputStream::readBoolean () throw (io::IOException, io::EOFException) [virtual]

Reads one input byte and returns true if that byte is nonzero, false if that byte is zero.

Returns:

the boolean value read.

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.4 virtual char decaf::io::DataInputStream::readByte () throw (io::IOException, io::EOFException) [virtual]

Reads and returns one input byte. The byte is treated as a signed value in the range -128 through 127, inclusive.

Returns:

the 8-bit value read.

Exceptions:***IOException*** (p. 1477)***EOFException*** (p. 1265)**6.202.3.5** virtual char decaf::io::DataInputStream::readChar () throw (
io::IOException, io::EOFException) [virtual]

Reads an input char and returns the char value. A ascii char is made up of one bytes. This returns the same result as `readByte`

Returns:

the 8 bit char read

Exceptions:***IOException*** (p. 1477)***EOFException*** (p. 1265)**6.202.3.6** virtual double decaf::io::DataInputStream::readDouble () throw (
io::IOException, io::EOFException) [virtual]

Reads eight input bytes and returns a double value. It does this by first constructing a long long value in exactly the manner of the `readLong` method, then converting this long value to a double in exactly the manner of the method `Double.longBitsToDouble`.

Returns:

the double value read

Exceptions:***IOException*** (p. 1477)***EOFException*** (p. 1265)**6.202.3.7** virtual float decaf::io::DataInputStream::readFloat () throw (
io::IOException, io::EOFException) [virtual]

Reads four input bytes and returns a float value. It does this by first constructing an int value in exactly the manner of the `readInt` method, then converting this int value to a float in exactly the manner of the method `Float.intBitsToFloat`.

Returns:

the float value read

Exceptions:***IOException*** (p. 1477)***EOFException*** (p. 1265)

6.202.3.8 virtual void decaf::io::DataInputStream::readFully (unsigned char * *buffer*, std::size_t *offset*, std::size_t *length*) throw (io::IOException, io::EOFException, lang::exceptions::NullPointerException) [virtual]

Reads *length* bytes from an input stream. This method blocks until one of the following conditions occurs: * *length* bytes of input data are available, in which case a normal return is made. * End of file is detected, in which case an **EOFException** (p. 1265) is thrown. * An I/O error occurs, in which case an **IOException** (p. 1477) other than **EOFException** (p. 1265) is thrown.

If *buffer* is null, a **NullPointerException** is thrown. If *offset* is negative, or *len* is negative, or *offset*+*length* is greater than the length of the array *buffer*, then an **IndexOutOfBoundsException** is thrown. If *len* is zero, then no bytes are read. Otherwise, the first byte read is stored into element *buffer*[*off*], the next one into *buffer*[*offset*+1], and so on. The number of bytes read is, at most, equal to *len*.

Parameters:

buffer - byte array to insert read data into

offset - location in *buffer* to start writing

length - number of bytes to read

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

NullPointerException if the *buffer* is null

6.202.3.9 virtual void decaf::io::DataInputStream::readFully (std::vector< unsigned char > & *buffer*) throw (io::IOException, io::EOFException) [virtual]

Reads some bytes from an input stream and stores them into the buffer array *buffer*. The number of bytes read is equal to the length of *buffer*.

This method blocks until one of the following conditions occurs: * *buffer.size()* bytes of input data are available, in which case a normal return is made. * End of file is detected, in which case an **EOFException** (p. 1265) is thrown. * An I/O error occurs, in which case an **IOException** (p. 1477) other than **EOFException** (p. 1265) is thrown.

If *buffer.size()* is zero, then no bytes are read. Otherwise, the first byte read is stored into element *b*[0], the next one into *buffer*[1], and so on. If an exception is thrown from this method, then it may be that some but not all bytes of *buffer* have been updated with data from the input stream.

Parameters:

buffer - vector of char that is read to its size()

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.10 `virtual int decaf::io::DataInputStream::readInt () throw (io::IOException, io::EOFException) [virtual]`

Reads four input bytes and returns an int value. Let a be the first byte read, b be the second byte, c be the third byte, and d be the fourth byte. The value returned is:

$((a \& 0xff) \ll 24) | ((b \& 0xff) \ll 16) | ((c \& 0xff) \ll 8) | (d \& 0xff)$

Returns:

the int value read

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.11 `virtual long long decaf::io::DataInputStream::readLong () throw (io::IOException, io::EOFException) [virtual]`

Reads eight input bytes and returns a long value. Let a be the first byte read, b be the second byte, c be the third byte, d be the fourth byte, e be the fifth byte, f be the sixth byte, g be the seventh byte, and h be the eighth byte. The value returned is: $((long)(a \& 0xff) \ll 56) | ((long)(b \& 0xff) \ll 48) | ((long)(c \& 0xff) \ll 40) | ((long)(d \& 0xff) \ll 32) | ((long)(e \& 0xff) \ll 24) | ((long)(f \& 0xff) \ll 16) | ((long)(g \& 0xff) \ll 8) | ((long)(h \& 0xff))$

Returns:

the 64 bit long long read

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.12 `virtual short decaf::io::DataInputStream::readShort () throw (io::IOException, io::EOFException) [virtual]`

Reads two input bytes and returns a short value. Let a be the first byte read and b be the second byte. The value returned is: $(short)((a \ll 8) | (b \& 0xff))$

Returns:

the 16 bit short value read

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.13 virtual std::string decaf::io::DataInputStream::readString () throw (io::IOException, io::EOFException) [virtual]

Reads an null terminated ASCII string to the stream and returns the string to the caller.

Returns:

string object containing the string read.

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.14 virtual unsigned char decaf::io::DataInputStream::readUnsignedByte () throw (io::IOException, io::EOFException) [virtual]

Reads one input byte, zero-extends it to type int, and returns the result, which is therefore in the range 0 through 255.

Returns:

the 8 bit unsigned value read

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.15 virtual unsigned short decaf::io::DataInputStream::readUnsignedShort () throw (io::IOException, io::EOFException) [virtual]

Reads two input bytes and returns an int value in the range 0 through 65535. Let a be the first byte read and b be the second byte. The value returned is: (((a & 0xff) << 8) | (b & 0xff))

Returns:

the 16 bit unsigned short read

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

6.202.3.16 virtual std::string decaf::io::DataInputStream::readUTF () throw (io::IOException, io::EOFException, io::UTFDataFormatException) [virtual]

Reads a modified UTF-8 encoded string in ASCII format and returns it, this is only useful if you know for sure that the string that is to be read was a string that contained all ASCII values (0-255), if so this method will throw a UTFFormatException. This method reads String value written from a Java **DataOutputStream** (p. 1125) and assumes that the length prefix precedes the encoded UTF-8 bytes is an unsigned short, which implies that the String will be no longer than 65535 characters.

Returns:

The decoded string read from stream.

Exceptions:

IOException (p. 1477)

EOFException (p. 1265)

UTFDataFormatException (p. 2683)

6.202.3.17 `virtual std::size_t decaf::io::DataInputStream::skip
(std::size_t num) throw (io::IOException,
lang::exceptions::UnsupportedOperationException) [virtual]`

Makes an attempt to skip over *n* bytes of data from the input stream, discarding the skipped bytes. However, it may skip over some smaller number of bytes, possibly zero. This may result from any of a number of conditions; reaching end of file before *n* bytes have been skipped is only one possibility. This method never throws an **EOFException** (p. 1265). The actual number of bytes skipped is returned.

Parameters:

num - number of bytes to skip

Returns:

the total number of bytes skipped

Reimplemented from **decaf::io::FilterInputStream** (p. 1320).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/DataInputStream.h`

6.203 decaf::io::DataOutputStream Class Reference

A data output stream lets an application write primitive Java data types to an output stream in a portable way.

#include <src/main/decaf/io/DataOutputStream.h> Inheritance diagram for decaf::io::DataOutputStream:

Public Member Functions

- **DataOutputStream** (**OutputStream** ***outputStream**, bool **own**=false)
Creates a new data output stream to write data to the specified underlying output stream.
- virtual ~**DataOutputStream** ()
- virtual std::size_t **size** () const
Returns the current value of the counter written, the number of bytes written to this data output stream so far.
- virtual void **write** (unsigned char **c**) throw (**IOException**)
Writes a single byte to the output stream.
- virtual void **write** (const unsigned char ***buffer**, std::size_t **offset**, std::size_t **len**) throw (**IOException**, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **write** (const std::vector< unsigned char > &**buffer**) throw (**IOException**)
Writes an array of bytes to the output stream.
- virtual void **writeBoolean** (bool **value**) throw (**IOException**)
Writes a boolean to the underlying output stream as a 1-byte value.
- virtual void **writeByte** (unsigned char **value**) throw (**IOException**)
Writes out a byte to the underlying output stream as a 1-byte value.
- virtual void **writeShort** (short **value**) throw (**IOException**)
Writes a short to the underlying output stream as two bytes, high byte first.
- virtual void **writeUnsignedShort** (unsigned short **value**) throw (**IOException**)
Writes a unsigned short to the bytes message stream as a 2 byte value.
- virtual void **writeChar** (char **value**) throw (**IOException**)
Writes out a char to the underlying output stream as a one byte value If no exception is thrown, the counter written is incremented by 1.
- virtual void **writeInt** (int **value**) throw (**IOException**)
Writes an int to the underlying output stream as four bytes, high byte first.
- virtual void **writeLong** (long long **value**) throw (**IOException**)
Writes an 64 bit long to the underlying output stream as eight bytes, high byte first.

- virtual void **writeFloat** (float value) throw (IOException)

Converts the float argument to an int using the floatToIntBits method in class Float, and then writes that int value to the underlying output stream as a 4-byte quantity, high byte first.

- virtual void **writeDouble** (double value) throw (IOException)

Converts the double argument to a long using the doubleToLongBits method in class Double, and then writes that long value to the underlying output stream as an 8-byte quantity, high byte first.

- virtual void **writeBytes** (const std::string &value) throw (IOException)

Writes out the string to the underlying output stream as a sequence of bytes.

- virtual void **writeChars** (const std::string &value) throw (IOException)

Writes a string to the underlying output stream as a sequence of characters.

- virtual void **writeUTF** (const std::string &value) throw (IOException, UTFDataFormatException)

Writes out the string to the underlying output stream as a modified UTF-8 encoded sequence of bytes.

Protected Attributes

- std::size_t **written**
- unsigned char **buffer** [8]

6.203.1 Detailed Description

A data output stream lets an application write primitive Java data types to an output stream in a portable way. An application can then use a data input stream to read the data back in.

6.203.2 Constructor & Destructor Documentation

6.203.2.1 decaf::io::DataOutputStream::DataOutputStream (OutputStream * *outputStream*, bool *own* = false)

Creates a new data output stream to write data to the specified underlying output stream.

Parameters:

outputStream a stream to wrap with this one.

own true if this objects owns the stream that it wraps.

6.203.2.2 virtual decaf::io::DataOutputStream::~~DataOutputStream () [virtual]

6.203.3 Member Function Documentation

6.203.3.1 virtual std::size_t decaf::io::DataOutputStream::size () const [inline, virtual]

Returns the current value of the counter written, the number of bytes written to this data output stream so far. If the counter overflows, it will be wrapped to Integer.MAX_VALUE.

Returns:

the value of the written field.

6.203.3.2 virtual void decaf::io::DataOutputStream::write (const std::vector< unsigned char > & *buffer*) throw (IOException) [virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The bytes to write.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Reimplemented from decaf::io::FilterOutputStream (p. 1326).

6.203.3.3 virtual void decaf::io::DataOutputStream::write (const unsigned char * *buffer*, std::size_t *offset*, std::size_t *len*) throw (IOException, lang::exceptions::NullPointerException) [virtual]

Writes an array of bytes to the output stream. the counter written is incremented by len.

Parameters:

buffer The array of bytes to write.

offset the position in buffer to start writing from.

len The number of bytes from the buffer to be written.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException if buffer is Null

Reimplemented from decaf::io::FilterOutputStream (p. 1326).

6.203.3.4 virtual void decaf::io::DataOutputStream::write (unsigned char *c*) throw (IOException) [virtual]

Writes a single byte to the output stream. If no exception is thrown, the counter written is incremented by 1.

Parameters:

c the byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Reimplemented from **decaf::io::FilterOutputStream** (p. 1327).

6.203.3.5 virtual void decaf::io::DataOutputStream::writeBoolean (bool *value*) throw (IOException) [virtual]

Writes a boolean to the underlying output stream as a 1-byte value. The value true is written out as the value (byte)1; the value false is written out as the value (byte)0. If no exception is thrown, the counter written is incremented by 1.

Parameters:

value the boolean to write.

Exceptions:

IOException (p. 1477)

6.203.3.6 virtual void decaf::io::DataOutputStream::writeByte (unsigned char *value*) throw (IOException) [virtual]

Writes out a byte to the underlying output stream as a 1-byte value. If no exception is thrown, the counter written is incremented by 1.

Parameters:

value the unsigned char value to write.

Exceptions:

IOException (p. 1477)

6.203.3.7 virtual void decaf::io::DataOutputStream::writeBytes (const std::string & *value*) throw (IOException) [virtual]

Writes out the string to the underlying output stream as a sequence of bytes. Each character in the string is written out, in sequence, by discarding its high eight bits. If no exception is thrown, the counter written is incremented by the length of value. The value written does not include a trailing null as that is not part of the sequence of bytes, if the null is needed, then use the writeChars method.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.8 virtual void decaf::io::DataOutputStream::writeChar (char *value*) throw (IOException) [virtual]

Writes out a char to the underlying output stream as a one byte value. If no exception is thrown, the counter written is incremented by 1.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.9 virtual void decaf::io::DataOutputStream::writeChars (const std::string & *value*) throw (IOException) [virtual]

Writes a string to the underlying output stream as a sequence of characters. Each character is written to the data output stream as if by the writeChar method. If no exception is thrown, the counter written is incremented by the length of value. The trailing NULL character is written by this method.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.10 virtual void decaf::io::DataOutputStream::writeDouble (double *value*) throw (IOException) [virtual]

Converts the double argument to a long using the doubleToLongBits method in class Double, and then writes that long value to the underlying output stream as an 8-byte quantity, high byte first. If no exception is thrown, the counter written is incremented by 8.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.11 virtual void decaf::io::DataOutputStream::writeFloat (float *value*) throw (IOException) [virtual]

Converts the float argument to an int using the floatToIntBits method in class Float, and then writes that int value to the underlying output stream as a 4-byte quantity, high byte first. If no exception is thrown, the counter written is incremented by 4.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.12 `virtual void decaf::io::DataOutputStream::writeInt (int value) throw (IOException) [virtual]`

Writes an int to the underlying output stream as four bytes, high byte first. If no exception is thrown, the counter written is incremented by 4.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.13 `virtual void decaf::io::DataOutputStream::writeLong (long long value) throw (IOException) [virtual]`

Writes an 64 bit long to the underlying output stream as eight bytes, high byte first. If no exception is thrown, the counter written is incremented by 8.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.14 `virtual void decaf::io::DataOutputStream::writeShort (short value) throw (IOException) [virtual]`

Writes a short to the underlying output stream as two bytes, high byte first. If no exception is thrown, the counter written is incremented by 2.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477)

6.203.3.15 virtual void decaf::io::DataOutputStream::writeUnsignedShort (unsigned short *value*) throw (IOException) [virtual]

Writes a unsigned short to the bytes message stream as a 2 byte value.

Parameters:

value - unsigned short to write to the stream

Exceptions:

IOException (p. 1477)

6.203.3.16 virtual void decaf::io::DataOutputStream::writeUTF (const std::string & *value*) throw (IOException, UTFDataFormatException) [virtual]

Writes out the string to the underlying output stream as a modeified UTF-8 encoded sequence of bytes. The first two bytes written are indicate its encoded length followed by the rest of the string's characters encoded as modified UTF-8. The length represent the encoded length of the data not the actual length of the string.

Parameters:

value the value to write.

Exceptions:

IOException (p. 1477) - on a write error

UTFDataFormatException (p. 2683) - if encoded size if greater than 65535

6.203.4 Field Documentation**6.203.4.1** unsigned char decaf::io::DataOutputStream::buffer[8] [protected]**6.203.4.2** std::size_t decaf::io::DataOutputStream::written [protected]

The documentation for this class was generated from the following file:

- src/main/decaf/io/**DataOutputStream.h**

6.204 activemq::commands::DataResponse Class Reference

#include <src/main/activemq/commands/DataResponse.h> Inheritance diagram for activemq::commands::DataResponse:

Public Member Functions

- **DataResponse** ()
- virtual **~DataResponse** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **DataResponse * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **DataStructure** > & **getData** () const
- virtual **Pointer**< **DataStructure** > & **getData** ()
- virtual void **setData** (const **Pointer**< **DataStructure** > &data)

Static Public Attributes

- static const unsigned char **ID_DATARESPONSE** = 32

Protected Member Functions

- **DataResponse** (const **DataResponse** &)
- **DataResponse** & **operator=** (const **DataResponse** &)

Protected Attributes

- **Pointer**< **DataStructure** > **data**

6.204.1 Constructor & Destructor Documentation

6.204.1.1 `activemq::commands::DataResponse::DataResponse (const DataResponse &) [inline, protected]`

6.204.1.2 `activemq::commands::DataResponse::DataResponse ()`

6.204.1.3 `virtual activemq::commands::DataResponse::~~DataResponse () [virtual]`

6.204.2 Member Function Documentation

6.204.2.1 `virtual DataResponse* activemq::commands::DataResponse::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::Response` (p. 2232).

6.204.2.2 `virtual void activemq::commands::DataResponse::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::Response` (p. 2232).

6.204.2.3 `virtual bool activemq::commands::DataResponse::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::Response` (p. 2232).

- 6.204.2.4** `virtual Pointer<DataStructure>& activemq::commands::DataResponse::getData ()`
[virtual]
- 6.204.2.5** `virtual const Pointer<DataStructure>& activemq::commands::DataResponse::getData () const`
[virtual]
- 6.204.2.6** `virtual unsigned char activemq::commands::DataResponse::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from **activemq::commands::Response** (p. 2233).

- 6.204.2.7** `DataResponse& activemq::commands::DataResponse::operator= (const DataResponse &)` [inline, protected]

Reimplemented from **activemq::commands::Response** (p. 2233).

- 6.204.2.8** `virtual void activemq::commands::DataResponse::setData (const Pointer< DataStructure > & data)` [virtual]
- 6.204.2.9** `virtual std::string activemq::commands::DataResponse::toString () const`
[virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::Response** (p. 2233).

6.204.3 Field Documentation

- 6.204.3.1** `Pointer<DataStructure> activemq::commands::DataResponse::data`
[protected]
- 6.204.3.2** `const unsigned char activemq::commands::DataResponse::ID _ - DATARESPONSE = 32` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/DataResponse.h`

6.205 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1135).

#include <src/main/activemq/wireformat/openwire/marshal/v3/DataResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller:

Public Member Functions

- **DataResponseMarshaller** ()
- virtual **~DataResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.205.1 Detailed Description

Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1135). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.205.2 Constructor & Destructor Documentation

6.205.2.1 `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::DataResponseMarshaller()` [inline]

6.205.2.2 `virtual activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::~DataResponseMarshaller()` [inline, virtual]

6.205.3 Member Function Documentation

6.205.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.205.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaller.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.205.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.205.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.205.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.205.3.6 virtual void activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2249).

6.205.3.7 virtual void activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2250).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**DataResponseMarshaller.h**

6.206 activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1139).

#include <src/main/activemq/wireformat/openwire/marshal/v1/DataResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller:

Public Member Functions

- **DataResponseMarshaller** ()
- virtual **~DataResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.206.1 Detailed Description

Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1139). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.206.2 Constructor & Destructor Documentation

6.206.2.1 `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::DataResponseMarshaller()` [inline]

6.206.2.2 `virtual activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::~~DataResponseMarshaller()` [inline, virtual]

6.206.3 Member Function Documentation

6.206.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.206.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaller.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.206.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2252).

6.206.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2253).

6.206.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2253).

6.206.3.6 virtual void activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2254).

6.206.3.7 virtual void activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2255).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**DataResponseMarshaller.h**

6.207 activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1143).

#include <src/main/activemq/wireformat/openwire/marshal/v2/DataResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller:

Public Member Functions

- **DataResponseMarshaller** ()
- virtual **~DataResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.207.1 Detailed Description

Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1143). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.207.2 Constructor & Destructor Documentation

6.207.2.1 `activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::DataResponseMar
() [inline]`

6.207.2.2 `virtual
activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::~~DataResponseM
() [inline, virtual]`

6.207.3 Member Function Documentation

6.207.3.1 `virtual commands::DataStructure* ac-
tivemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::createObject
() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.207.3.2 `virtual unsigned char ac-
tivemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::getDataStructureTy
() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.207.3.3 `virtual void ac-
tivemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::looseMarshal
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, decaf::io::DataOutputStream * dataOut) throw (
decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2242).

6.207.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2243).

6.207.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2243).

6.207.3.6 virtual void activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2244).

6.207.3.7 virtual void activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2245).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**DataResponseMarshaller.h**

6.208 activemq::wireformat::openwire::marshal::DataStreamMarshaller Class Reference

Base class for all classes that **marshal** (p. 76) **commands** (p. 59) for Openwire.

#include <src/main/activemq/wireformat/openwire/marshal/DataStreamMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::DataStreamMarshaller:

Public Member Functions

- virtual **~DataStreamMarshaller** ()
- virtual unsigned char **getDataStructureType** () const =0
Gets the DataStructureType that this class marshals/unmarshals.
- virtual **commands::DataStructure * createObject** () const =0
Creates a new instance of the class that this class is a marshaling director for.
- virtual int **tightMarshal1** (**OpenWireFormat *format**, **commands::DataStructure *command**, **utils::BooleanStream *bs**)=0 throw (**decaf::io::IOException**)
Tight Marhsal to the given stream.
- virtual void **tightMarshal2** (**OpenWireFormat *format**, **commands::DataStructure *command**, **decaf::io::DataOutputStream *ds**, **utils::BooleanStream *bs**)=0 throw (**decaf::io::IOException**)
Tight Marhsal to the given stream.
- virtual void **tightUnmarshal** (**OpenWireFormat *format**, **commands::DataStructure *command**, **decaf::io::DataInputStream *dis**, **utils::BooleanStream *bs**)=0 throw (**decaf::io::IOException**)
Tight Un-marhsal to the given stream.
- virtual void **looseMarshal** (**OpenWireFormat *format**, **commands::DataStructure *command**, **decaf::io::DataOutputStream *ds**)=0 throw (**decaf::io::IOException**)
Tight Marhsal to the given stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *format**, **commands::DataStructure *command**, **decaf::io::DataInputStream *dis**)=0 throw (**decaf::io::IOException**)
Loose Un-marhsal to the given stream.

6.208.1 Detailed Description

Base class for all classes that **marshal** (p. 76) **commands** (p. 59) for Openwire.

6.208.2 Constructor & Destructor Documentation

6.208.2.1 `virtual`
`activemq::wireformat::openwire::marshal::DataStreamMarshaller::~~DataStreamMarshaller`
`() [inline, virtual]`

6.208.3 Member Function Documentation

6.208.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::DataStreamMarshaller::createObject`
`() const [pure virtual]`

Creates a new instance of the class that this class is a marshaling director for.

Returns:

newly allocated Command

Implemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 156), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 183), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 272), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 287), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 318), `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller` (p. 346), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 392), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 425), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 442), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 458), `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller` (p. 474), `activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller` (p. 600), `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 620), `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 955), `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 971), `activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller` (p. 990), `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1008), `activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller` (p. 1038), `activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller` (p. 1055), `activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller` (p. 1075), `activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller` (p. 1088), `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1109), `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1140), `activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller` (p. 1204), `activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller` (p. 1222), `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1284), `activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller` (p. 1361), `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1450), `activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller` (p. 1500), `activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller` (p. 1521), `activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller` (p. 1536), `activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller` (p. 1552), `activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller` (p. 1567), `activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller` (p. 1583), `activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller` (p. 1613), `activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller`

(p. 1792), activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller
 (p. 1820), activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller
 (p. 1834), activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller (p. 1849),
 activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (p. 1907), ac-
 tivemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller (p. 1936),
 activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller (p. 2008),
 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (p. 2095),
 activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller (p. 2119),
 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2136),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2186), ac-
 tivemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2207), activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2223), activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2252),
 activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller (p. 2289), ac-
 tivemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2305), ac-
 tivemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2357), ac-
 tivemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller (p. 2497),
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2603),
 activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller (p. 2718),
 activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller (p. 2737),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller
 (p. 160), activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller
 (p. 187), activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller
 (p. 276), activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller
 (p. 291), activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller
 (p. 322), activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller
 (p. 350), activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller
 (p. 396), activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller
 (p. 429), activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller
 (p. 446), activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller
 (p. 462), activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller
 (p. 478), activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller (p. 604),
 activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller (p. 624), ac-
 tivemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller (p. 959),
 activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller (p. 975),
 activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller (p. 994), ac-
 tivemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller (p. 1012),
 activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (p. 1042),
 activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller (p. 1059),
 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (p. 1079), ac-
 tivemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (p. 1096), ac-
 tivemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (p. 1113),
 activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1144),
 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1208),
 activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller (p. 1226), ac-
 tivemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (p. 1288),
 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1369),
 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1446),
 activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller (p. 1496),
 activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller (p. 1513),
 activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller (p. 1528), ac-
 tivemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller (p. 1544),
 activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1563),
 activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller

(p. 1587), `activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller`
(p. 1605), `activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller`
(p. 1784), `activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller`
(p. 1812), `activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller`
(p. 1830), `activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller` (p. 1857),
`activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller` (p. 1899), `ac-`
`tivemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller` (p. 1932),
`activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller` (p. 2000),
`activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller` (p. 2099),
`activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller` (p. 2111),
`activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller` (p. 2128),
`activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller` (p. 2182), `ac-`
`tivemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller`
(p. 2199), `activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller`
(p. 2215), `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242),
`activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller` (p. 2297), `ac-`
`tivemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller` (p. 2309), `ac-`
`tivemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller` (p. 2353), `ac-`
`tivemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller` (p. 2505),
`activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller` (p. 2595),
`activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller` (p. 2714),
`activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller` (p. 2745),
`activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller`
(p. 152), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller`
(p. 179), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller`
(p. 268), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller`
(p. 283), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller`
(p. 314), `activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller`
(p. 342), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller`
(p. 388), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller`
(p. 421), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller`
(p. 438), `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller`
(p. 454), `activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller`
(p. 470), `activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller` (p. 596),
`activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller` (p. 616), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller` (p. 951),
`activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller` (p. 967),
`activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller` (p. 986), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller` (p. 1004),
`activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller` (p. 1034),
`activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller` (p. 1051),
`activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller` (p. 1071), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller` (p. 1092), `ac-`
`tivemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1105),
`activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1136),
`activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller` (p. 1200),
`activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller` (p. 1218), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1280),
`activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller` (p. 1365),
`activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1454),
`activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller` (p. 1504),
`activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller` (p. 1517),
`activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller` (p. 1532), `ac-`
`tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller` (p. 1548),

activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1559),
 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller
 (p. 1579), activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller
 (p. 1609), activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller
 (p. 1788), activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller
 (p. 1816), activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller
 (p. 1838), activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller (p. 1853),
 activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1903), ac-
 tivemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller (p. 1928),
 activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller (p. 2004),
 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2091),
 activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller (p. 2115),
 activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2132),
 activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2190), ac-
 tivemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller
 (p. 2203), activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller
 (p. 2219), activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (p. 2247),
 activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller (p. 2293), ac-
 tivemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2313), ac-
 tivemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (p. 2361), ac-
 tivemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller (p. 2501),
 activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2599), ac-
 tivemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller (p. 2710), and
 activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller (p. 2741).

6.208.3.2 virtual unsigned char activemq::wireformat::openwire::marshal::DataStreamMarshaller::getDataStructureType() () const [pure virtual]

Gets the DataStructureType that this class marshals/unmarshals.

Returns:

byte Id of this classes DataStructureType

Implemented in activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller
 (p. 156), activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller
 (p. 183), activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller
 (p. 272), activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller
 (p. 287), activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller
 (p. 318), activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller
 (p. 346), activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller
 (p. 392), activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller
 (p. 425), activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller
 (p. 442), activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller
 (p. 458), activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller
 (p. 474), activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller (p. 600),
 activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller (p. 620), ac-
 tivemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller (p. 955),
 activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller (p. 971),
 activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller (p. 990), ac-
 tivemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller (p. 1008),
 activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller (p. 1038),
 activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller (p. 1055),

activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller (p. 1075),
 activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller (p. 1088),
 activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller (p. 1109),
 activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller (p. 1140),
 activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller (p. 1204),
 activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller (p. 1222),
 activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller (p. 1284),
 activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller (p. 1361),
 activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller (p. 1450),
 activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller (p. 1500),
 activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller (p. 1521),
 activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller (p. 1536),
 activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller (p. 1552),
 activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller (p. 1567),
 activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller
 (p. 1583), activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller
 (p. 1613), activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller
 (p. 1792), activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller
 (p. 1820), activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller
 (p. 1834), activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller (p. 1849),
 activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (p. 1907),
 activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller (p. 1936),
 activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller (p. 2008),
 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (p. 2095),
 activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller (p. 2119),
 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2136),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2186),
 activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2207), activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2223), activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2252),
 activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller (p. 2289),
 activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2305),
 activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2357),
 activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller (p. 2497),
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2603),
 activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller (p. 2718),
 activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller (p. 2737),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller
 (p. 160), activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller
 (p. 187), activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller
 (p. 276), activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller
 (p. 291), activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller
 (p. 322), activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller
 (p. 350), activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller
 (p. 396), activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller
 (p. 429), activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller
 (p. 446), activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller
 (p. 462), activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller
 (p. 478), activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller (p. 604),
 activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller (p. 624),
 activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller (p. 959),
 activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller (p. 975),
 activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller (p. 994),
 activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller (p. 1012),

activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (p. 1042),
 activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller (p. 1059),
 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (p. 1079),
 activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (p. 1096),
 activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (p. 1113),
 activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1144),
 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1208),
 activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller (p. 1226),
 activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (p. 1288),
 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1369),
 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1446),
 activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller (p. 1496),
 activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller (p. 1513),
 activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller (p. 1528),
 activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller (p. 1544),
 activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1563),
 activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller
 (p. 1587), activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller
 (p. 1605), activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller
 (p. 1784), activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller
 (p. 1812), activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller
 (p. 1830), activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller (p. 1857),
 activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1899),
 activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller (p. 1932),
 activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller (p. 2000),
 activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2099),
 activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller (p. 2111),
 activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2128),
 activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2182),
 activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller
 (p. 2199), activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller
 (p. 2215), activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (p. 2242),
 activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller (p. 2297),
 activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2309),
 activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (p. 2353),
 activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller (p. 2505),
 activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (p. 2595),
 activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller (p. 2714),
 activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller (p. 2745),
 activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller
 (p. 152), activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller
 (p. 179), activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller
 (p. 268), activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller
 (p. 283), activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller
 (p. 314), activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller
 (p. 342), activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller
 (p. 388), activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller
 (p. 421), activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller
 (p. 438), activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller
 (p. 454), activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller
 (p. 470), activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller (p. 596),
 activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller (p. 616),
 activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller (p. 951),
 activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller (p. 967),

activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller (p. 986),
 activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller (p. 1004),
 activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller (p. 1034),
 activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller (p. 1051),
 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller (p. 1071),
 activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller (p. 1092),
 activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller (p. 1105),
 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (p. 1136),
 activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (p. 1200),
 activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller (p. 1218),
 activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller (p. 1280),
 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (p. 1365),
 activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (p. 1454),
 activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller (p. 1504),
 activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller (p. 1517),
 activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller (p. 1532),
 activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller (p. 1548),
 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1559),
 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller
 (p. 1579), activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller
 (p. 1609), activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller
 (p. 1788), activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller
 (p. 1816), activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller
 (p. 1838), activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller (p. 1853),
 activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1903),
 activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller (p. 1928),
 activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller (p. 2004),
 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2091),
 activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller (p. 2115),
 activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2132),
 activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2190),
 activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller
 (p. 2203), activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller
 (p. 2219), activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (p. 2247),
 activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller (p. 2293),
 activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2313),
 activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (p. 2361),
 activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller (p. 2501),
 activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2599),
 activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller (p. 2710), and
 activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller (p. 2741).

6.208.3.3 virtual void ac-
 tivemq::wireformat::openwire::marshal::DataStreamMarshaller::looseMarshal
 (OpenWireFormat * *format*, commands::DataStructure * *command*,
 decaf::io::DataOutputStream * *ds*) throw (decaf::io::IOException)
 [pure virtual]

Tight Marshal to the given stream.

Parameters:

format - The OpenWireFormat properties
command - the object to Marshal

ds - DataOutputStream to **marshal** (p. 76) to

Exceptions:

IOException if an error occurs.

Implemented in **activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller** (p. 156), **activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller** (p. 183), **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller** (p. 245), **activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller** (p. 272), **activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller** (p. 287), **activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller** (p. 318), **activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller** (p. 346), **activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller** (p. 392), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller** (p. 408), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller** (p. 425), **activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller** (p. 442), **activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller** (p. 458), **activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller** (p. 474), **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 522), **activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller** (p. 600), **activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller** (p. 620), **activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller** (p. 955), **activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller** (p. 971), **activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller** (p. 990), **activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller** (p. 1008), **activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller** (p. 1038), **activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller** (p. 1055), **activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller** (p. 1075), **activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller** (p. 1088), **activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller** (p. 1109), **activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller** (p. 1140), **activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller** (p. 1204), **activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller** (p. 1222), **activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller** (p. 1284), **activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller** (p. 1361), **activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller** (p. 1450), **activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller** (p. 1500), **activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller** (p. 1521), **activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller** (p. 1536), **activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller** (p. 1552), **activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller** (p. 1567), **activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller** (p. 1583), **activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller** (p. 1613), **activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller** (p. 1792), **activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller** (p. 1820), **activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller** (p. 1834), **activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller** (p. 1849), **activemq::wireformat::openwire::marshal::v1::MessageMarshaller** (p. 1872), **activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller** (p. 1907), **activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller** (p. 1936), **activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller** (p. 2008), **activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller** (p. 2095), **activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller** (p. 2119),

activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2136),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2186),
 activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2207),
 activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2223),
 activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2252),
 activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller (p. 2289),
 activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2305),
 activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2357),
 activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller (p. 2497),
 activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller (p. 2578),
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2603),
 activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller (p. 2718),
 activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller (p. 2737),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller
 (p. 160),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller
 (p. 187),
 activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller
 (p. 249),
 activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller
 (p. 276),
 activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller
 (p. 291),
 activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller
 (p. 322),
 activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller
 (p. 350),
 activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller
 (p. 396),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller
 (p. 412),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller
 (p. 429),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller
 (p. 446),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller
 (p. 462),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller
 (p. 478),
 activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller
 (p. 529),
 activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller (p. 604),
 activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller (p. 624),
 activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller (p. 959),
 activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller (p. 975),
 activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller (p. 994),
 activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller (p. 1012),
 activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (p. 1042),
 activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller (p. 1059),
 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (p. 1079),
 activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (p. 1096),
 activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (p. 1113),
 activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1144),
 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1208),
 activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller (p. 1226),
 activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (p. 1288),
 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1369),
 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1446),
 activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller (p. 1496),
 activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller (p. 1513),
 activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller (p. 1528),
 activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller (p. 1544),
 activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1563),
 activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller
 (p. 1587),
 activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller
 (p. 1605),
 activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller
 (p. 1784),
 activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller
 (p. 1812),
 activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller

(p. 1830), activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller (p. 1857),
 activemq::wireformat::openwire::marshal::v2::MessageMarshaller (p. 1862), ac-
 tivemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1899), ac-
 tivemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller (p. 1932),
 activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller (p. 2000),
 activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2099),
 activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller (p. 2111),
 activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2128),
 activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2182), ac-
 tivemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller
 (p. 2199), activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller
 (p. 2215), activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (p. 2242),
 activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller (p. 2297), ac-
 tivemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2309), ac-
 tivemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (p. 2353), ac-
 tivemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller (p. 2505),
 activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller (p. 2586),
 activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (p. 2595),
 activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller (p. 2714),
 activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller (p. 2745),
 activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller
 (p. 152), activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller
 (p. 179), activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller
 (p. 241), activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller
 (p. 268), activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller
 (p. 283), activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller
 (p. 314), activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller
 (p. 342), activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller
 (p. 388), activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller
 (p. 404), activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller
 (p. 421), activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller
 (p. 438), activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller
 (p. 454), activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller
 (p. 470), activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller
 (p. 515), activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller (p. 596),
 activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller (p. 616), ac-
 tivemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller (p. 951),
 activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller (p. 967),
 activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller (p. 986), ac-
 tivemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller (p. 1004),
 activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller (p. 1034),
 activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller (p. 1051),
 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller (p. 1071), ac-
 tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller (p. 1092), ac-
 tivemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller (p. 1105),
 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (p. 1136),
 activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (p. 1200),
 activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller (p. 1218), ac-
 tivemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller (p. 1280),
 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (p. 1365),
 activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (p. 1454),
 activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller (p. 1504),
 activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller (p. 1517),
 activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller (p. 1532), ac-

tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller (p. 1548),
 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1559),
 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller
 (p. 1579), activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller
 (p. 1609), activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller
 (p. 1788), activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller
 (p. 1816), activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller
 (p. 1838), activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller (p. 1853),
 activemq::wireformat::openwire::marshal::v3::MessageMarshaller (p. 1867), ac-
 tivemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1903), ac-
 tivemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller (p. 1928),
 activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller (p. 2004),
 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2091),
 activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller (p. 2115),
 activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2132),
 activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2190), ac-
 tivemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller
 (p. 2203), activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller
 (p. 2219), activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (p. 2247),
 activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller (p. 2293), ac-
 tivemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2313), ac-
 tivemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (p. 2361), ac-
 tivemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller (p. 2501),
 activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller (p. 2582), ac-
 tivemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2599), ac-
 tivemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller (p. 2710), and
 activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller (p. 2741).

6.208.3.4 virtual void ac-
 tivemq::wireformat::openwire::marshal::DataStreamMarshaller::looseUnmarshal
 (OpenWireFormat * *format*, commands::DataStructure * *command*,
 decaf::io::DataInputStream * *dis*) throw (decaf::io::IOException) [pure
 virtual]

Loose Un-marhsal to the given stream.

Parameters:

format - The OpenWireFormat properties
command - the object to Un-Marshal
dis - the DataInputStream to Un-Marshal from

Exceptions:

IOException if an error occurs.

Implemented in activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller
 (p. 157), activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller
 (p. 184), activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller
 (p. 245), activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller
 (p. 273), activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller
 (p. 288), activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller
 (p. 319), activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller

(p. 347), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller`
 (p. 393), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller`
 (p. 408), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller`
 (p. 426), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller`
 (p. 443), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller`
 (p. 459), `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller`
 (p. 475), `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller`
 (p. 523), `activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller` (p. 601),
`activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 621), `ac-`
`tivemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 956),
`activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 972),
`activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller` (p. 991), `ac-`
`tivemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1009),
`activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller` (p. 1039),
`activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller` (p. 1056),
`activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller` (p. 1076), `ac-`
`tivemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller` (p. 1089), `ac-`
`tivemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1110),
`activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1141),
`activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller` (p. 1205),
`activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller` (p. 1223), `ac-`
`tivemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1285),
`activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller` (p. 1362),
`activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1451),
`activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller` (p. 1501),
`activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller` (p. 1522),
`activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller` (p. 1537), `ac-`
`tivemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller` (p. 1553),
`activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller` (p. 1568),
`activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller`
 (p. 1584), `activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller`
 (p. 1614), `activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller`
 (p. 1793), `activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller`
 (p. 1821), `activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller`
 (p. 1835), `activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller` (p. 1850),
`activemq::wireformat::openwire::marshal::v1::MessageMarshaller` (p. 1872), `ac-`
`tivemq::wireformat::openwire::marshal::v1::MessagePullMarshaller` (p. 1908), `ac-`
`tivemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller` (p. 1937),
`activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller` (p. 2009),
`activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller` (p. 2096),
`activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller` (p. 2120),
`activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller` (p. 2137),
`activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller` (p. 2187), `ac-`
`tivemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller`
 (p. 2208), `activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller`
 (p. 2224), `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2253),
`activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller` (p. 2290), `ac-`
`tivemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller` (p. 2306), `ac-`
`tivemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller` (p. 2358), `ac-`
`tivemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller` (p. 2498),
`activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller` (p. 2578),
`activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller` (p. 2604),
`activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller` (p. 2719),
`activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller` (p. 2738),

activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller
 (p. 161), activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller
 (p. 188), activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller
 (p. 249), activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller
 (p. 277), activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller
 (p. 292), activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller
 (p. 323), activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller
 (p. 351), activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller
 (p. 397), activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller
 (p. 412), activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller
 (p. 430), activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller
 (p. 447), activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller
 (p. 463), activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller
 (p. 479), activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller
 (p. 530), activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller (p. 605),
 activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller (p. 625), ac-
 tivemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller (p. 960),
 activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller (p. 976),
 activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller (p. 995), ac-
 tivemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller (p. 1013),
 activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (p. 1043),
 activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller (p. 1060),
 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (p. 1080), ac-
 tivemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (p. 1097), ac-
 tivemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (p. 1114),
 activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1145),
 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1209),
 activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller (p. 1227), ac-
 tivemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (p. 1289),
 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1370),
 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1447),
 activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller (p. 1497),
 activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller (p. 1514),
 activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller (p. 1529), ac-
 tivemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller (p. 1545),
 activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1564),
 activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller
 (p. 1588), activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller
 (p. 1606), activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller
 (p. 1785), activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller
 (p. 1813), activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller
 (p. 1831), activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller (p. 1858),
 activemq::wireformat::openwire::marshal::v2::MessageMarshaller (p. 1862), ac-
 tivemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1900), ac-
 tivemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller (p. 1933),
 activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller (p. 2001),
 activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2100),
 activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller (p. 2112),
 activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2129),
 activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2183), ac-
 tivemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller
 (p. 2200), activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller
 (p. 2216), activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (p. 2243),
 activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller (p. 2298), ac-

tivemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2310),
 tivemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (p. 2354),
 tivemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller (p. 2506),
 activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller (p. 2586),
 activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (p. 2596),
 activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller (p. 2715),
 activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller (p. 2746),
 activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller
 (p. 153), activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller
 (p. 180), activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller
 (p. 241), activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller
 (p. 269), activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller
 (p. 284), activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller
 (p. 315), activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller
 (p. 343), activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller
 (p. 389), activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller
 (p. 404), activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller
 (p. 422), activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller
 (p. 439), activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller
 (p. 455), activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller
 (p. 471), activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller
 (p. 516), activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller (p. 597),
 activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller (p. 617),
 tivemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller (p. 952),
 activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller (p. 968),
 activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller (p. 987),
 tivemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller (p. 1005),
 activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller (p. 1035),
 activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller (p. 1052),
 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller (p. 1072),
 tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller (p. 1093),
 tivemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller (p. 1106),
 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (p. 1137),
 activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (p. 1201),
 activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller (p. 1219),
 tivemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller (p. 1281),
 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (p. 1366),
 activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (p. 1455),
 activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller (p. 1505),
 activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller (p. 1518),
 activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller (p. 1533),
 tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller (p. 1549),
 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1560),
 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller
 (p. 1580), activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller
 (p. 1610), activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller
 (p. 1789), activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller
 (p. 1817), activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller
 (p. 1839), activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller (p. 1854),
 activemq::wireformat::openwire::marshal::v3::MessageMarshaller (p. 1867),
 tivemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1904),
 tivemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller (p. 1929),
 activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller (p. 2005),
 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2092),

`activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller` (p. 2116),
`activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller` (p. 2133),
`activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller` (p. 2191), `activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller` (p. 2204),
`activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller` (p. 2220), `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248),
`activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller` (p. 2294), `activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller` (p. 2314), `activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller` (p. 2362), `activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller` (p. 2502),
`activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2582), `activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller` (p. 2600), `activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller` (p. 2711), and
`activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller` (p. 2742).

6.208.3.5 `virtual int activemq::wireformat::openwire::marshal::DataStreamMarshaller::tightMarshal1 (OpenWireFormat * format, commands::DataStructure * command, utils::BooleanStream * bs) throw (decaf::io::IOException) [pure virtual]`

Tight Marshal to the given stream.

Parameters:

format - The OpenWireFormat properties
command - the object to Marshal
bs - boolean stream to `marshal` (p. 76) to.

Exceptions:

IOException if an error occurs.

Implemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 157), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 184), `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 246), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 273), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 288), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 319), `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller` (p. 347), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 393), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 409), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 426), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 443), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 459), `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller` (p. 475), `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524), `activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller` (p. 601), `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 621), `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 956), `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 972), `activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller` (p. 991), `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1009),

activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller (p. 1039),
 activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller (p. 1056),
 activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller (p. 1076), ac-
 tivemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller (p. 1089), ac-
 tivemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller (p. 1110),
 activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller (p. 1141),
 activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller (p. 1205),
 activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller (p. 1223), ac-
 tivemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller (p. 1285),
 activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller (p. 1362),
 activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller (p. 1451),
 activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller (p. 1501),
 activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller (p. 1522),
 activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller (p. 1537), ac-
 tivemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller (p. 1553),
 activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller (p. 1568),
 activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller
 (p. 1584), activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller
 (p. 1614), activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller
 (p. 1793), activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller
 (p. 1821), activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller
 (p. 1835), activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller (p. 1850),
 activemq::wireformat::openwire::marshal::v1::MessageMarshaller (p. 1873), ac-
 tivemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (p. 1908), ac-
 tivemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller (p. 1937),
 activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller (p. 2009),
 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (p. 2096),
 activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller (p. 2120),
 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2137),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2187), ac-
 tivemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2208), activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2224), activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2253),
 activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller (p. 2290), ac-
 tivemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2306), ac-
 tivemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2358), ac-
 tivemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller (p. 2498),
 activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller (p. 2579),
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2604),
 activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller (p. 2719),
 activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller (p. 2738),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller
 (p. 161), activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller
 (p. 188), activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller
 (p. 250), activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller
 (p. 277), activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller
 (p. 292), activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller
 (p. 323), activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller
 (p. 351), activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller
 (p. 397), activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller
 (p. 413), activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller
 (p. 430), activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller
 (p. 447), activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller
 (p. 463), activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller

(p. 479), `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller`
 (p. 531), `activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller` (p. 605),
`activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller` (p. 625), `ac-`
`tivemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller` (p. 960),
`activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller` (p. 976),
`activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller` (p. 995), `ac-`
`tivemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller` (p. 1013),
`activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller` (p. 1043),
`activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller` (p. 1060),
`activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller` (p. 1080), `ac-`
`tivemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller` (p. 1097), `ac-`
`tivemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller` (p. 1114),
`activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller` (p. 1145),
`activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller` (p. 1209),
`activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller` (p. 1227), `ac-`
`tivemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller` (p. 1289),
`activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller` (p. 1370),
`activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller` (p. 1447),
`activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller` (p. 1497),
`activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller` (p. 1514),
`activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller` (p. 1529), `ac-`
`tivemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller` (p. 1545),
`activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller` (p. 1564),
`activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller`
 (p. 1588), `activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller`
 (p. 1606), `activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller`
 (p. 1785), `activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller`
 (p. 1813), `activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller`
 (p. 1831), `activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller` (p. 1858),
`activemq::wireformat::openwire::marshal::v2::MessageMarshaller` (p. 1863), `ac-`
`tivemq::wireformat::openwire::marshal::v2::MessagePullMarshaller` (p. 1900), `ac-`
`tivemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller` (p. 1933),
`activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller` (p. 2001),
`activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller` (p. 2100),
`activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller` (p. 2112),
`activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller` (p. 2129),
`activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller` (p. 2183), `ac-`
`tivemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller`
 (p. 2200), `activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller`
 (p. 2216), `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2243),
`activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller` (p. 2298), `ac-`
`tivemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller` (p. 2310), `ac-`
`tivemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller` (p. 2354), `ac-`
`tivemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller` (p. 2506),
`activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller` (p. 2587),
`activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller` (p. 2596),
`activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller` (p. 2715),
`activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller` (p. 2746),
`activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller`
 (p. 153), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller`
 (p. 180), `activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller`
 (p. 242), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller`
 (p. 269), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller`
 (p. 284), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller`

(p. 315), `activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller`
 (p. 343), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller`
 (p. 389), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller`
 (p. 405), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller`
 (p. 422), `activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller`
 (p. 439), `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller`
 (p. 455), `activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller`
 (p. 471), `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller`
 (p. 517), `activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller` (p. 597),
`activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller` (p. 617), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller` (p. 952),
`activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller` (p. 968),
`activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller` (p. 987), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller` (p. 1005),
`activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller` (p. 1035),
`activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller` (p. 1052),
`activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller` (p. 1072), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller` (p. 1093), `ac-`
`tivemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1106),
`activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1137),
`activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller` (p. 1201),
`activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller` (p. 1219), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1281),
`activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller` (p. 1366),
`activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1455),
`activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller` (p. 1505),
`activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller` (p. 1518),
`activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller` (p. 1533), `ac-`
`tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller` (p. 1549),
`activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller` (p. 1560),
`activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller`
 (p. 1580), `activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller`
 (p. 1610), `activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller`
 (p. 1789), `activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller`
 (p. 1817), `activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller`
 (p. 1839), `activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller` (p. 1854),
`activemq::wireformat::openwire::marshal::v3::MessageMarshaller` (p. 1868), `ac-`
`tivemq::wireformat::openwire::marshal::v3::MessagePullMarshaller` (p. 1904), `ac-`
`tivemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller` (p. 1929),
`activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller` (p. 2005),
`activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller` (p. 2092),
`activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller` (p. 2116),
`activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller` (p. 2133),
`activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller` (p. 2191), `ac-`
`tivemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller`
 (p. 2204), `activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller`
 (p. 2220), `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248),
`activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller` (p. 2294), `ac-`
`tivemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller` (p. 2314), `ac-`
`tivemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller` (p. 2362), `ac-`
`tivemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller` (p. 2502),
`activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2583), `ac-`
`tivemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller` (p. 2600), `ac-`
`tivemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller` (p. 2711), and

`activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller` (p. 2742).

6.208.3.6 virtual void `activemq::wireformat::openwire::marshal::DataStreamMarshaller::tightMarshal2` (`OpenWireFormat * format`, `commands::DataStructure * command`, `decaf::io::DataOutputStream * ds`, `utils::BooleanStream * bs`) throw (`decaf::io::IOException`) [pure virtual]

Tight Marshal to the given stream.

Parameters:

format - The `OpenWireFormat` properties
command - the object to Marshal
ds - the `DataOutputStream` to Marshal to
bs - boolean stream to `marshal` (p. 76) to.

Exceptions:

IOException if an error occurs.

Implemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 158), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 185), `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 246), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 274), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 289), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 320), `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller` (p. 348), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 394), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 409), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 427), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 444), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 460), `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller` (p. 476), `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 525), `activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller` (p. 602), `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 622), `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 957), `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 973), `activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller` (p. 992), `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1010), `activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller` (p. 1040), `activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller` (p. 1057), `activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller` (p. 1077), `activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller` (p. 1090), `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1111), `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1142), `activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller` (p. 1206), `activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller` (p. 1224), `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1286), `activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller` (p. 1363), `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1452), `activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller` (p. 1502),

activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller (p. 1523),
 activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller (p. 1538), ac-
 tivemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller (p. 1554),
 activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller (p. 1569),
 activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller
 (p. 1585), activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller
 (p. 1615), activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller
 (p. 1794), activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller
 (p. 1822), activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller
 (p. 1836), activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller (p. 1851),
 activemq::wireformat::openwire::marshal::v1::MessageMarshaller (p. 1874), ac-
 tivemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (p. 1909), ac-
 tivemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller (p. 1938),
 activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller (p. 2010),
 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (p. 2097),
 activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller (p. 2121),
 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2138),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2188), ac-
 tivemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2209), activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2225), activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2254),
 activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller (p. 2291), ac-
 tivemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2307), ac-
 tivemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2359), ac-
 tivemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller (p. 2499),
 activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller (p. 2579),
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2605),
 activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller (p. 2720),
 activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller (p. 2739),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller
 (p. 162), activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller
 (p. 189), activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller
 (p. 250), activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller
 (p. 278), activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller
 (p. 293), activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller
 (p. 324), activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller
 (p. 352), activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller
 (p. 398), activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller
 (p. 413), activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller
 (p. 431), activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller
 (p. 448), activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller
 (p. 464), activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller
 (p. 480), activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller
 (p. 532), activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller (p. 606),
 activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller (p. 626), ac-
 tivemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller (p. 961),
 activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller (p. 977),
 activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller (p. 996), ac-
 tivemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller (p. 1014),
 activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (p. 1044),
 activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller (p. 1061),
 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (p. 1081), ac-
 tivemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (p. 1098), ac-
 tivemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (p. 1115),

activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1146),
 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1210),
 activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller (p. 1228),
 activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (p. 1290),
 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1371),
 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1448),
 activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller (p. 1498),
 activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller (p. 1515),
 activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller (p. 1530),
 activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller (p. 1546),
 activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1565),
 activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller
 (p. 1589),
 activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller
 (p. 1607),
 activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller
 (p. 1786),
 activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller
 (p. 1814),
 activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller
 (p. 1832),
 activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller (p. 1859),
 activemq::wireformat::openwire::marshal::v2::MessageMarshaller (p. 1864),
 activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1901),
 activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller (p. 1934),
 activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller (p. 2002),
 activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2101),
 activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller (p. 2113),
 activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2130),
 activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2184),
 activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller
 (p. 2201),
 activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller
 (p. 2217),
 activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (p. 2244),
 activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller (p. 2299),
 activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2311),
 activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (p. 2355),
 activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller (p. 2507),
 activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller (p. 2587),
 activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (p. 2597),
 activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller (p. 2716),
 activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller (p. 2747),
 activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller
 (p. 154),
 activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller
 (p. 181),
 activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller
 (p. 242),
 activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller
 (p. 270),
 activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller
 (p. 285),
 activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller
 (p. 316),
 activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller
 (p. 344),
 activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller
 (p. 390),
 activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller
 (p. 405),
 activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller
 (p. 423),
 activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller
 (p. 440),
 activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller
 (p. 456),
 activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller
 (p. 472),
 activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller
 (p. 518),
 activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller (p. 598),
 activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller (p. 618),
 activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller (p. 953),
 activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller (p. 969),

activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller (p. 988),
 activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller (p. 1006),
 activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller (p. 1036),
 activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller (p. 1053),
 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller (p. 1073),
 activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller (p. 1094),
 activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller (p. 1107),
 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (p. 1138),
 activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (p. 1202),
 activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller (p. 1220),
 activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller (p. 1282),
 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (p. 1367),
 activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (p. 1456),
 activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller (p. 1506),
 activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller (p. 1519),
 activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller (p. 1534),
 activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller (p. 1550),
 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1561),
 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller (p. 1581),
 activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller (p. 1611),
 activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller (p. 1790),
 activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller (p. 1818),
 activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller (p. 1840),
 activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller (p. 1855),
 activemq::wireformat::openwire::marshal::v3::MessageMarshaller (p. 1869),
 activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1905),
 activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller (p. 1930),
 activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller (p. 2006),
 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2093),
 activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller (p. 2117),
 activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2134),
 activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2192),
 activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller (p. 2205),
 activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller (p. 2221),
 activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (p. 2249),
 activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller (p. 2295),
 activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2315),
 activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (p. 2363),
 activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller (p. 2503),
 activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller (p. 2583),
 activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2601),
 activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller (p. 2712), and
 activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller (p. 2743).

6.208.3.7 virtual void ac-

tivemq::wireformat::openwire::marshal::DataStreamMarshaller::tightUnmarshal
 (OpenWireFormat * *format*, commands::DataStructure * *command*,
 decaf::io::DataInputStream * *dis*, utils::BooleanStream * *bs*) throw (
 decaf::io::IOException) [pure virtual]

Tight Un-marhsal to the given stream.

Parameters:

format - The OpenwireFormat properties
command - the object to Un-Marshall
dis - the DataInputStream to Un-Marshall from
bs - boolean stream to unmarshal from.

Exceptions:

IOException if an error occurs.

Implemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 158), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 185), `activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller` (p. 247), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 274), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 289), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 320), `activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller` (p. 348), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 394), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller` (p. 410), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller` (p. 427), `activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller` (p. 444), `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 460), `activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller` (p. 476), `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 526), `activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller` (p. 602), `activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller` (p. 622), `activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller` (p. 957), `activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller` (p. 973), `activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller` (p. 992), `activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller` (p. 1010), `activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller` (p. 1040), `activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller` (p. 1057), `activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller` (p. 1077), `activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller` (p. 1090), `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1111), `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1142), `activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller` (p. 1206), `activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller` (p. 1224), `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1286), `activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller` (p. 1363), `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1452), `activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller` (p. 1502), `activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller` (p. 1523), `activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller` (p. 1538), `activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller` (p. 1554), `activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller` (p. 1569), `activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller` (p. 1585), `activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller` (p. 1615), `activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller` (p. 1794), `activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller` (p. 1822), `activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller` (p. 1836), `activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller` (p. 1851),

activemq::wireformat::openwire::marshal::v1::MessageMarshaller (p. 1874),
 activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller (p. 1909),
 activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller (p. 1938),
 activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller (p. 2010),
 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller (p. 2097),
 activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller (p. 2121),
 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller (p. 2138),
 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller (p. 2188),
 activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller
 (p. 2209),
 activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller
 (p. 2225),
 activemq::wireformat::openwire::marshal::v1::ResponseMarshaller (p. 2255),
 activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller (p. 2291),
 activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller (p. 2307),
 activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller (p. 2359),
 activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller (p. 2499),
 activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller (p. 2580),
 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller (p. 2605),
 activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller (p. 2720),
 activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller (p. 2739),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller
 (p. 162),
 activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller
 (p. 189),
 activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller
 (p. 251),
 activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller
 (p. 278),
 activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller
 (p. 293),
 activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller
 (p. 324),
 activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller
 (p. 352),
 activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller
 (p. 398),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller
 (p. 414),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller
 (p. 431),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller
 (p. 448),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller
 (p. 464),
 activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller
 (p. 480),
 activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller
 (p. 533),
 activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller (p. 606),
 activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller (p. 626),
 activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller (p. 961),
 activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller (p. 977),
 activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller (p. 996),
 activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller (p. 1014),
 activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller (p. 1044),
 activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller (p. 1061),
 activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller (p. 1081),
 activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller (p. 1098),
 activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller (p. 1115),
 activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller (p. 1146),
 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller (p. 1210),
 activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller (p. 1228),
 activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller (p. 1290),
 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller (p. 1371),
 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller (p. 1448),
 activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller (p. 1498),
 activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller (p. 1515),
 activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller (p. 1530),
 activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller (p. 1546),

activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller (p. 1565),
 activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller
 (p. 1589), activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller
 (p. 1607), activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller
 (p. 1786), activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller
 (p. 1814), activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller
 (p. 1832), activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller (p. 1859),
 activemq::wireformat::openwire::marshal::v2::MessageMarshaller (p. 1864), ac-
 tivemq::wireformat::openwire::marshal::v2::MessagePullMarshaller (p. 1901), ac-
 tivemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller (p. 1934),
 activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller (p. 2002),
 activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller (p. 2101),
 activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller (p. 2113),
 activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller (p. 2130),
 activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller (p. 2184), ac-
 tivemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller
 (p. 2201), activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller
 (p. 2217), activemq::wireformat::openwire::marshal::v2::ResponseMarshaller (p. 2245),
 activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller (p. 2299), ac-
 tivemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller (p. 2311), ac-
 tivemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller (p. 2355), ac-
 tivemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller (p. 2507),
 activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller (p. 2588),
 activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller (p. 2597),
 activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller (p. 2716),
 activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller (p. 2747),
 activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller
 (p. 154), activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller
 (p. 181), activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller
 (p. 243), activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller
 (p. 270), activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller
 (p. 285), activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller
 (p. 316), activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller
 (p. 344), activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller
 (p. 390), activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller
 (p. 406), activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller
 (p. 423), activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller
 (p. 440), activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller
 (p. 456), activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller
 (p. 472), activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller
 (p. 519), activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller (p. 598),
 activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller (p. 618), ac-
 tivemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller (p. 953),
 activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller (p. 969),
 activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller (p. 988), ac-
 tivemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller (p. 1006),
 activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller (p. 1036),
 activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller (p. 1053),
 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller (p. 1073), ac-
 tivemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller (p. 1094), ac-
 tivemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller (p. 1107),
 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller (p. 1138),
 activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller (p. 1202),
 activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller (p. 1220), ac-

tivemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller (p. 1282),
 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller (p. 1367),
 activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller (p. 1456),
 activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller (p. 1506),
 activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller (p. 1519),
 activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller (p. 1534),
 activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller (p. 1550),
 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller (p. 1561),
 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller
 (p. 1581), activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller
 (p. 1611), activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller
 (p. 1790), activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller
 (p. 1818), activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller
 (p. 1840), activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller (p. 1855),
 activemq::wireformat::openwire::marshal::v3::MessageMarshaller (p. 1869),
 activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller (p. 1905),
 activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller (p. 1930),
 activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller (p. 2006),
 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller (p. 2093),
 activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller (p. 2117),
 activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller (p. 2134),
 activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller (p. 2192),
 activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller
 (p. 2205), activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller
 (p. 2221), activemq::wireformat::openwire::marshal::v3::ResponseMarshaller (p. 2250),
 activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller (p. 2295),
 activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller (p. 2315),
 activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller (p. 2363),
 activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller (p. 2503),
 activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller (p. 2584),
 activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller (p. 2601),
 activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller (p. 2712), and
 activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller (p. 2743).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/DataStreamMarshaller.h`

6.209 activemq::commands::DataStructure Class Reference

#include <src/main/activemq/commands/DataStructure.h> Inheritance diagram for activemq::commands::DataStructure:

Public Member Functions

- virtual **~DataStructure** ()
- virtual unsigned char **getDataStructureType** () const =0
*Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.*
- virtual **DataStructure * cloneDataStructure** () const =0
Clone this obbject and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)=0
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const =0
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const =0
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*

6.209.1 Constructor & Destructor Documentation

- 6.209.1.1** virtual **activemq::commands::DataStructure::~~DataStructure** ()
 [inline, virtual]

6.209.2 Member Function Documentation

- 6.209.2.1** virtual **DataStructure* activemq::commands::DataStructure::cloneDataStructure** ()
 const [pure virtual]

Clone this obbject and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implemented in **activemq::commands::ActiveMQBlobMessage** (p. 147), **activemq::commands::ActiveMQBytesMessage** (p. 166), **activemq::commands::ActiveMQDestination** (p. 231), **activemq::commands::ActiveMQMapMessage** (p. 258), **activemq::commands::ActiveMQMessage** (p. 280), **activemq::commands::ActiveMQObjectMessage**

(p. 311), `activemq::commands::ActiveMQQueue` (p. 338), `ac-`
`tivemq::commands::ActiveMQStreamMessage` (p. 377), `ac-`
`tivemq::commands::ActiveMQTempDestination` (p. 400), `ac-`
`tivemq::commands::ActiveMQTempQueue` (p. 416), `ac-`
`tivemq::commands::ActiveMQTempTopic` (p. 433), `activemq::commands::ActiveMQTextMessage`
(p. 450), `activemq::commands::ActiveMQTopic` (p. 466), `ac-`
`tivemq::commands::BooleanExpression` (p. 578), `activemq::commands::BrokerError`
(p. 587), `activemq::commands::BrokerId` (p. 593), `activemq::commands::BrokerInfo`
(p. 609), `activemq::commands::ConnectionControl` (p. 946), `ac-`
`tivemq::commands::ConnectionError` (p. 963), `activemq::commands::ConnectionId`
(p. 982), `activemq::commands::ConnectionInfo` (p. 998), `ac-`
`tivemq::commands::ConsumerControl` (p. 1029), `activemq::commands::ConsumerId`
(p. 1046), `activemq::commands::ConsumerInfo` (p. 1064), `ac-`
`tivemq::commands::ControlCommand` (p. 1084), `activemq::commands::DataArrayResponse`
(p. 1102), `activemq::commands::DataResponse` (p. 1133), `ac-`
`tivemq::commands::DestinationInfo` (p. 1195), `activemq::commands::DiscoveryEvent`
(p. 1214), `activemq::commands::ExceptionResponse` (p. 1277), `ac-`
`tivemq::commands::FlushCommand` (p. 1358), `activemq::commands::IntegerResponse`
(p. 1443), `activemq::commands::JournalQueueAck` (p. 1492), `ac-`
`tivemq::commands::JournalTopicAck` (p. 1508), `activemq::commands::JournalTrace`
(p. 1525), `activemq::commands::JournalTransaction` (p. 1540), `ac-`
`tivemq::commands::KeepAliveInfo` (p. 1556), `activemq::commands::LastPartialCommand`
(p. 1576), `activemq::commands::LocalTransactionId` (p. 1601), `ac-`
`tivemq::commands::Message` (p. 1741), `activemq::commands::MessageAck`
(p. 1778), `activemq::commands::MessageDispatch` (p. 1801), `ac-`
`tivemq::commands::MessageDispatchNotification` (p. 1824), `ac-`
`tivemq::commands::MessageId` (p. 1844), `activemq::commands::MessagePull`
(p. 1894), `activemq::commands::NetworkBridgeFilter` (p. 1925), `ac-`
`tivemq::commands::PartialCommand` (p. 1996), `activemq::commands::ProducerAck`
(p. 2087), `activemq::commands::ProducerId` (p. 2106), `ac-`
`tivemq::commands::ProducerInfo` (p. 2123), `activemq::commands::RemoveInfo`
(p. 2178), `activemq::commands::RemoveSubscriptionInfo` (p. 2194), `ac-`
`tivemq::commands::ReplayCommand` (p. 2211), `activemq::commands::Response`
(p. 2232), `activemq::commands::SessionId` (p. 2285), `ac-`
`tivemq::commands::SessionInfo` (p. 2301), `activemq::commands::ShutdownInfo`
(p. 2350), `activemq::commands::SubscriptionInfo` (p. 2492), `ac-`
`tivemq::commands::TransactionId` (p. 2574), `activemq::commands::TransactionInfo`
(p. 2590), `activemq::commands::WireFormatInfo` (p. 2702), and `ac-`
`tivemq::commands::XATransactionId` (p. 2732).

6.209.2.2 virtual void `activemq::commands::DataStructure::copyDataStructure` (const `DataStructure * src`) [pure virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

`src` - Source Object

6.209.2.3 virtual bool activemq::commands::DataStructure::equals (const DataStructure * *value*) const [pure virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.209.2.4 virtual unsigned char activemq::commands::DataStructure::getDataStructureType () const [pure virtual]

Get the **DataStructure** (p. 1174) Type as defined in CommandTypes.h.

Returns:

The type of the data structure

Implemented in **activemq::commands::ActiveMQBlobMessage** (p. 148), **activemq::commands::ActiveMQBytesMessage** (p. 168), **activemq::commands::ActiveMQDestination** (p. 233), **activemq::commands::ActiveMQMapMessage** (p. 260), **activemq::commands::ActiveMQMessage** (p. 280), **activemq::commands::ActiveMQObjectMessage** (p. 312), **activemq::commands::ActiveMQQueue** (p. 339), **activemq::commands::ActiveMQStreamMessage** (p. 377), **activemq::commands::ActiveMQTempDestination** (p. 401), **activemq::commands::ActiveMQTempQueue** (p. 418), **activemq::commands::ActiveMQTempTopic** (p. 435), **activemq::commands::ActiveMQTextMessage** (p. 451), **activemq::commands::ActiveMQTopic** (p. 467), **activemq::commands::BrokerError** (p. 588), **activemq::commands::BrokerId** (p. 594), **activemq::commands::BrokerInfo** (p. 610), **activemq::commands::ConnectionControl** (p. 947), **activemq::commands::ConnectionError** (p. 964), **activemq::commands::ConnectionId** (p. 983), **activemq::commands::ConnectionInfo** (p. 999), **activemq::commands::ConsumerControl** (p. 1030), **activemq::commands::ConsumerId** (p. 1047), **activemq::commands::ConsumerInfo** (p. 1065), **activemq::commands::ControlCommand** (p. 1085), **activemq::commands::DataArrayResponse** (p. 1103), **activemq::commands::DataResponse** (p. 1134), **activemq::commands::DestinationInfo** (p. 1196), **activemq::commands::DiscoveryEvent** (p. 1215), **activemq::commands::ExceptionResponse** (p. 1277), **activemq::commands::FlushCommand** (p. 1358), **activemq::commands::IntegerResponse** (p. 1443), **activemq::commands::JournalQueueAck** (p. 1492), **activemq::commands::JournalTopicAck** (p. 1509), **activemq::commands::JournalTrace** (p. 1525), **activemq::commands::JournalTransaction** (p. 1541), **activemq::commands::KeepAliveInfo** (p. 1556), **activemq::commands::LastPartialCommand** (p. 1577), **activemq::commands::LocalTransactionId** (p. 1602), **activemq::commands::Message** (p. 1743), **activemq::commands::MessageAck** (p. 1779), **activemq::commands::MessageDispatch** (p. 1802), **activemq::commands::MessageDispatchNotification** (p. 1825), **activemq::commands::MessageId** (p. 1845), **activemq::commands::MessagePull**

(p. 1895), **activemq::commands::NetworkBridgeFilter** (p. 1925), **activemq::commands::PartialCommand** (p. 1997), **activemq::commands::ProducerAck** (p. 2088), **activemq::commands::ProducerId** (p. 2107), **activemq::commands::ProducerInfo** (p. 2124), **activemq::commands::RemoveInfo** (p. 2178), **activemq::commands::RemoveSubscriptionInfo** (p. 2195), **activemq::commands::ReplayCommand** (p. 2212), **activemq::commands::Response** (p. 2233), **activemq::commands::SessionId** (p. 2286), **activemq::commands::SessionInfo** (p. 2302), **activemq::commands::ShutdownInfo** (p. 2350), **activemq::commands::SubscriptionInfo** (p. 2493), **activemq::commands::TransactionId** (p. 2575), **activemq::commands::TransactionInfo** (p. 2591), **activemq::commands::WireFormatInfo** (p. 2703), and **activemq::commands::XATransactionId** (p. 2733).

6.209.2.5 virtual std::string activemq::commands::DataStructure::toString () const [pure virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Implemented in **activemq::commands::ActiveMQBlobMessage** (p. 150), **activemq::commands::ActiveMQBytesMessage** (p. 173), **activemq::commands::ActiveMQDestination** (p. 237), **activemq::commands::ActiveMQMapMessage** (p. 266), **activemq::commands::ActiveMQMessage** (p. 281), **activemq::commands::ActiveMQObjectMessage** (p. 312), **activemq::commands::ActiveMQQueue** (p. 340), **activemq::commands::ActiveMQStreamMessage** (p. 382), **activemq::commands::ActiveMQTempDestination** (p. 401), **activemq::commands::ActiveMQTempQueue** (p. 418), **activemq::commands::ActiveMQTempTopic** (p. 435), **activemq::commands::ActiveMQTextMessage** (p. 452), **activemq::commands::ActiveMQTopic** (p. 468), **activemq::commands::BaseCommand** (p. 512), **activemq::commands::BaseDataStructure** (p. 560), **activemq::commands::BooleanExpression** (p. 579), **activemq::commands::BrokerId** (p. 594), **activemq::commands::BrokerInfo** (p. 612), **activemq::commands::Command** (p. 883), **activemq::commands::ConnectionControl** (p. 948), **activemq::commands::ConnectionError** (p. 964), **activemq::commands::ConnectionId** (p. 983), **activemq::commands::ConnectionInfo** (p. 1001), **activemq::commands::ConsumerControl** (p. 1031), **activemq::commands::ConsumerId** (p. 1048), **activemq::commands::ConsumerInfo** (p. 1067), **activemq::commands::ControlCommand** (p. 1085), **activemq::commands::DataArrayResponse** (p. 1103), **activemq::commands::DataResponse** (p. 1134), **activemq::commands::DestinationInfo** (p. 1197), **activemq::commands::DiscoveryEvent** (p. 1215), **activemq::commands::ExceptionResponse** (p. 1278), **activemq::commands::FlushCommand** (p. 1359), **activemq::commands::IntegerResponse** (p. 1444), **activemq::commands::JournalQueueAck** (p. 1493), **activemq::commands::JournalTopicAck** (p. 1510), **activemq::commands::JournalTrace** (p. 1526), **activemq::commands::JournalTransaction** (p. 1541), **activemq::commands::KeepAliveInfo** (p. 1557), **activemq::commands::LastPartialCommand** (p. 1577), **activemq::commands::LocalTransactionId** (p. 1603), **activemq::commands::Message** (p. 1749), **activemq::commands::MessageAck**

(p. 1781), `activemq::commands::MessageDispatch` (p. 1803), `activemq::commands::MessageDispatchNotification` (p. 1827), `activemq::commands::MessageId` (p. 1846), `activemq::commands::MessagePull` (p. 1896), `activemq::commands::NetworkBridgeFilter` (p. 1926), `activemq::commands::PartialCommand` (p. 1997), `activemq::commands::ProducerAck` (p. 2088), `activemq::commands::ProducerId` (p. 2108), `activemq::commands::ProducerInfo` (p. 2125), `activemq::commands::RemoveInfo` (p. 2179), `activemq::commands::RemoveSubscriptionInfo` (p. 2196), `activemq::commands::ReplayCommand` (p. 2212), `activemq::commands::Response` (p. 2233), `activemq::commands::SessionId` (p. 2287), `activemq::commands::SessionInfo` (p. 2302), `activemq::commands::ShutdownInfo` (p. 2351), `activemq::commands::SubscriptionInfo` (p. 2494), `activemq::commands::TransactionId` (p. 2575), `activemq::commands::TransactionInfo` (p. 2592), `activemq::commands::WireFormatInfo` (p. 2708), and `activemq::commands::XATransactionId` (p. 2734).

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/DataStructure.h`

6.210 decaf::util::Date Class Reference

Wrapper class around a time value in milliseconds.

```
#include <src/main/decaf/util/Date.h>
```

Public Member Functions

- **Date** ()
Default constructor - sets time to now.
- **Date** (long long milliseconds)
Constructs the date with a given time value.
- **Date** (const **Date** &source)
Copy constructor.
- virtual ~**Date** ()
- long long **getTime** () const
Gets the underlying time.
- void **setTime** (long long milliseconds)
Sets the underlying time.
- bool **after** (**Date** &when) const
Determines whether or not this date falls after the specified time.
- bool **before** (**Date** &when) const
Determines whether or not this date falls before the specified time.
- bool **equals** (**Date** &when) const
Determines whether or not this date is equal to the specified time.
- **Date** & **operator=** (const **Date** &source)
Assignment operator.

Static Public Member Functions

- static long long **getCurrentTimeMilliseconds** ()
Returns the current time in milliseconds.

6.210.1 Detailed Description

Wrapper class around a time value in milliseconds. This class is comparable to Java's java.util.Date class.

Since:

1.0

6.210.2 Constructor & Destructor Documentation

6.210.2.1 `decaf::util::Date::Date ()`

Default constructor - sets time to now.

6.210.2.2 `decaf::util::Date::Date (long long milliseconds)`

Constructs the date with a given time value.

Parameters:

milliseconds The time in milliseconds;

6.210.2.3 `decaf::util::Date::Date (const Date & source)`

Copy constructor.

Parameters:

source The **Date** (p. 1179) instance to copy into this one.

6.210.2.4 `virtual decaf::util::Date::~~Date ()` [virtual]

6.210.3 Member Function Documentation

6.210.3.1 `bool decaf::util::Date::after (Date & when) const` [inline]

Determines wether or not this date falls after the specified time.

Parameters:

when The date to compare

Returns:

true if this date falls after when.

6.210.3.2 `bool decaf::util::Date::before (Date & when) const` [inline]

Determines wether or not this date falls before the specified time.

Parameters:

when The date to compare

Returns:

true if this date falls before when.

6.210.3.3 `bool decaf::util::Date::equals (Date & when) const` [inline]

Determines whether or not this date is equal to the specified time.

Parameters:

when The date to compare

Returns:

true if this date is equal to when.

6.210.3.4 `static long long decaf::util::Date::getCurrentTimeMilliseconds ()`
[static]

Returns the current time in milliseconds. Comparable to Java's System.currentTimeMillis method.

Returns:

The current time in milliseconds.

Referenced by activemq::commands::Message::isExpired().

6.210.3.5 `long long decaf::util::Date::getTime () const` [inline]

Gets the underlying time.

Returns:

The underlying time value in milliseconds.

6.210.3.6 `Date& decaf::util::Date::operator= (const Date & source)` [inline]

Assignment operator.

6.210.3.7 `void decaf::util::Date::setTime (long long milliseconds)` [inline]

Sets the underlying time.

Parameters:

milliseconds The underlying time value in milliseconds.

The documentation for this class was generated from the following file:

- src/main/decaf/util/**Date.h**

6.211 decaf::internal::DecafRuntime Class Reference

Handles APR initialization and termination.

#include <src/main/decaf/internal/DecafRuntime.h> Inheritance diagram for decaf::internal::DecafRuntime:

Public Member Functions

- **DecafRuntime ()**
Initializes the APR Runtime for a library.
- virtual **~DecafRuntime ()**
Terminates the APR Runtime for a library.
- apr_pool_t * **getGlobalPool () const**
Grants access to the Global APR Pool instance that should be used when creating new threads.

6.211.1 Detailed Description

Handles APR initialization and termination.

6.211.2 Constructor & Destructor Documentation

6.211.2.1 decaf::internal::DecafRuntime::DecafRuntime ()

Initializes the APR Runtime for a library.

6.211.2.2 virtual decaf::internal::DecafRuntime::~~DecafRuntime () [virtual]

Terminates the APR Runtime for a library.

6.211.3 Member Function Documentation

6.211.3.1 apr_pool_t* decaf::internal::DecafRuntime::getGlobalPool () const

Grants access to the Global APR Pool instance that should be used when creating new threads.

The documentation for this class was generated from the following file:

- src/main/decaf/internal/**DecafRuntime.h**

6.212 activemq::threads::DedicatedTaskRunner Class Reference

#include <src/main/activemq/threads/DedicatedTaskRunner.h> Inheritance diagram for activemq::threads::DedicatedTaskRunner:

Public Member Functions

- **DedicatedTaskRunner** (**Task** *task)
- virtual **~DedicatedTaskRunner** ()
- virtual void **shutdown** (unsigned int timeout)

Shutdown after a timeout, does not guarantee that the task's iterate method has completed and the thread halted.

- virtual void **shutdown** ()

Shutdown once the task has finished and the TaskRunner's thread has exited.

- virtual void **wakeup** ()

*Signal the **TaskRunner** (p. 2522) to wakeup and execute another iteration cycle on the task, the **Task** (p. 2520) instance will be run until its iterate method has returned false indicating it is done.*

Protected Member Functions

- virtual void **run** ()

Run method - called by the Thread class in the context of the thread.

6.212.1 Constructor & Destructor Documentation

6.212.1.1 **activemq::threads::DedicatedTaskRunner::DedicatedTaskRunner** (**Task** *task)

6.212.1.2 **virtual activemq::threads::DedicatedTaskRunner::~~DedicatedTaskRunner** () [virtual]

6.212.2 Member Function Documentation

6.212.2.1 **virtual void activemq::threads::DedicatedTaskRunner::run** () [protected, virtual]

Run method - called by the Thread class in the context of the thread.

Implements **decaf::lang::Runnable** (p. 2256).

6.212.2.2 virtual void activemq::threads::DedicatedTaskRunner::shutdown () [virtual]

Shutdown once the task has finished and the TaskRunner's thread has exited.

Implements **activemq::threads::TaskRunner** (p. 2522).

6.212.2.3 virtual void activemq::threads::DedicatedTaskRunner::shutdown (unsigned int *timeout*) [virtual]

Shutdown after a timeout, does not guarantee that the task's iterate method has completed and the thread halted.

Parameters:

timeout - Time in Milliseconds to wait for the task to stop.

Implements **activemq::threads::TaskRunner** (p. 2522).

6.212.2.4 virtual void activemq::threads::DedicatedTaskRunner::wakeup () [virtual]

Signal the **TaskRunner** (p. 2522) to wakeup and execute another iteration cycle on the task, the **Task** (p. 2520) instance will be run until its iterate method has returned false indicating it is done.

Implements **activemq::threads::TaskRunner** (p. 2523).

The documentation for this class was generated from the following file:

- src/main/activemq/threads/**DedicatedTaskRunner.h**

6.213 activemq::transport::DefaultTransportListener Class Reference

#include <src/main/activemq/transport/DefaultTransportListener.h> Inheritance diagram for activemq::transport::DefaultTransportListener:

Public Member Functions

- virtual **~DefaultTransportListener** ()
- virtual void **onCommand** (const **Pointer**< **Command** > &command *AMQCPP_*-*UNUSED*)
Event handler for the receipt of a command.
- virtual void **onException** (const **decaf::lang::Exception** &ex *AMQCPP_*-*UNUSED*)
*Event handler for an exception from a command **transport** (p. 67).*
- virtual void **transportInterrupted** ()
*The **transport** (p. 67) has suffered an interruption from which it hopes to recover.*
- virtual void **transportResumed** ()
*The **transport** (p. 67) has resumed after an interruption.*

6.213.1 Constructor & Destructor Documentation

- 6.213.1.1** virtual **activemq::transport::DefaultTransportListener::~~DefaultTransportListener** () [inline, virtual]

6.213.2 Member Function Documentation

- 6.213.2.1** virtual void **activemq::transport::DefaultTransportListener::onCommand** (const **Pointer**< **Command** > &command *AMQCPP_*-*UNUSED*) [inline, virtual]

Event handler for the receipt of a command. The **transport** (p. 67) passes off all received **commands** (p. 59) to its listeners, the listener then owns the Object. If there is no registered listener the **Transport** (p. 2608) deletes the command upon receipt.

Parameters:

command the received command object.

- 6.213.2.2** virtual void **activemq::transport::DefaultTransportListener::onException** (const **decaf::lang::Exception** &ex *AMQCPP_*-*UNUSED*) [inline, virtual]

Event handler for an exception from a command **transport** (p. 67).

Parameters:

ex The exception.

6.213.2.3 `virtual void activemq::transport::DefaultTransportListener::transportInterrupted ()`
[inline, virtual]

The **transport** (p.67) has suffered an interruption from which it hopes to recover.

Implements **activemq::transport::TransportListener** (p.2625).

6.213.2.4 `virtual void activemq::transport::DefaultTransportListener::transportResumed ()`
[inline, virtual]

The **transport** (p.67) has resumed after an interruption.

Implements **activemq::transport::TransportListener** (p.2625).

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/DefaultTransportListener.h`

6.214 decaf::util::concurrent::Delayed Class Reference

A mix-in style interface for marking objects that should be acted upon after a given delay.

#include <src/main/decaf/util/concurrent/Delayed.h> Inheritance diagram for decaf::util::concurrent::Delayed:

Public Member Functions

- virtual `~Delayed()`
- virtual long long `getDelay` (const `TimeUnit` &unit)=0

Returns the remaining delay associated with this object, in the given time unit.

6.214.1 Detailed Description

A mix-in style interface for marking objects that should be acted upon after a given delay. An implementation of this interface must define a `Comparable` methods that provides an ordering consistent with its `getDelay` method.

6.214.2 Constructor & Destructor Documentation

6.214.2.1 virtual decaf::util::concurrent::Delayed::~~Delayed () [inline, virtual]

6.214.3 Member Function Documentation

6.214.3.1 virtual long long decaf::util::concurrent::Delayed::getDelay (const `TimeUnit` & *unit*) [pure virtual]

Returns the remaining delay associated with this object, in the given time unit.

Parameters:

unit The time unit

Returns:

the remaining delay; zero or negative values indicate that the delay has already elapsed

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/**Delayed.h**

6.215 cms::DeliveryMode Class Reference

This is an Abstract class whose purpose is to provide a container for the delivery mode enumeration for CMS messages.

```
#include <src/main/cms/DeliveryMode.h>
```

Public Member Functions

- virtual `~DeliveryMode ()`

Static Public Attributes

- static const int **PERSISTENT** = 0
*Enumeration values for **Message** (p. 1753) Delivery Mode.*
- static const int **NON_PERSISTENT** = 1

6.215.1 Detailed Description

This is an Abstract class whose purpose is to provide a container for the delivery mode enumeration for CMS messages. When a client sends a `cms::Message` (p.1753) it can mark the **Message** (p.1753) as either Persistent or Non-Persistent. If the client feels that the **Message** (p.1753) cannot be lost in transit it should mark it as Persistent, otherwise if it is allowable for a **Message** (p.1753) to occasionally be lost it can mark it as Non-Persistent. This allows the Provider to balance make tradeoffs between balance and **Message** (p.1753) throughput.

The **DeliveryMode** (p.1188) covers only the transport of the **Message** (p.1753) for sending client to its destination and doesn't apply to the receiving **Message** (p.1753) consumer. The receiving Consumer can drop Message's based on configuration such as memory limits or **Message** (p.1753) filtering.

A message is guaranteed to be delivered once and only once by a CMS provider if the delivery mode of the message is **PERSISTENT** and the configuration of the **Message** (p.1753) consumer allows for it.

Since:

1.0

6.215.2 Constructor & Destructor Documentation

6.215.2.1 `virtual cms::DeliveryMode::~~DeliveryMode () [inline, virtual]`

6.215.3 Field Documentation

6.215.3.1 `const int cms::DeliveryMode::NON_PERSISTENT = 1 [static]`

6.215.3.2 `const int cms::DeliveryMode::PERSISTENT = 0 [static]`

Enumeration values for **Message** (p. 1753) Delivery Mode.

Referenced by activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setCMSDeliveryMode().

The documentation for this class was generated from the following file:

- src/main/cms/**DeliveryMode.h**

6.216 cms::Destination Class Reference

A **Destination** (p. 1190) object encapsulates a provider-specific address.

#include <src/main/cms/Destination.h> Inheritance diagram for cms::Destination:

Public Types

- enum **DestinationType** { **TOPIC**, **QUEUE**, **TEMPORARY_TOPIC**, **TEMPORARY_QUEUE** }

Public Member Functions

- virtual **~Destination** ()
- virtual **DestinationType** **getDestinationType** () const =0
*Retrieve the **Destination** (p. 1190) Type for this **Destination** (p. 1190).*
- virtual **cms::Destination * clone** () const =0
Creates a new instance of this destination type that is a copy of this one, and returns it.
- virtual void **copy** (const **cms::Destination** &source)=0
*Copies the contents of the given **Destination** (p. 1190) object to this one.*
- virtual const **CMSProperties** & **getCMSProperties** () const =0
Retrieve any properties that might be part of the destination that was specified.

6.216.1 Detailed Description

A **Destination** (p. 1190) object encapsulates a provider-specific address. There is no standard definition of a **Destination** (p. 1190) address, each provider can provide its own definition and there can be configuration data attached to the **Destination** (p. 1190) address.

All CMS **Destination** (p. 1190) objects support concurrent use.

Since:

1.0

6.216.2 Member Enumeration Documentation

6.216.2.1 enum cms::Destination::DestinationType

Enumerator:

TOPIC
QUEUE
TEMPORARY_TOPIC
TEMPORARY_QUEUE

6.216.3 Constructor & Destructor Documentation

6.216.3.1 `virtual cms::Destination::~~Destination () [inline, virtual]`

6.216.4 Member Function Documentation

6.216.4.1 `virtual cms::Destination* cms::Destination::clone () const [pure virtual]`

Creates a new instance of this destination type that is a copy of this one, and returns it.

Returns:

cloned copy of this object

Implemented in `activemq::commands::ActiveMQQueue` (p. 338),
`activemq::commands::ActiveMQTempQueue` (p. 416), `ac-`
`tivemq::commands::ActiveMQTempTopic` (p. 433), and `ac-`
`tivemq::commands::ActiveMQTopic` (p. 466).

6.216.4.2 `virtual void cms::Destination::copy (const cms::Destination & source) [pure virtual]`

Copies the contents of the given **Destination** (p. 1190) object to this one.

Parameters:

source The source **Destination** (p. 1190) object.

6.216.4.3 `virtual const CMSProperties& cms::Destination::getCMSProperties () const [pure virtual]`

Retrieve any properties that might be part of the destination that was specified. This is a deviation from the JMS spec but necessary due to C++ restrictions.

Returns:

A {const} reference to a **CMSProperties** (p. 853) object.

Implemented in `activemq::commands::ActiveMQQueue` (p. 339),
`activemq::commands::ActiveMQTempQueue` (p. 417), `ac-`
`tivemq::commands::ActiveMQTempTopic` (p. 434), and `ac-`
`tivemq::commands::ActiveMQTopic` (p. 467).

6.216.4.4 `virtual DestinationType cms::Destination::getDestinationType () const [pure virtual]`

Retrieve the **Destination** (p. 1190) Type for this **Destination** (p. 1190).

Returns:

The **Destination** (p. 1190) Type

Implemented in `activemq::commands::ActiveMQQueue` (p. 339),
`activemq::commands::ActiveMQTempQueue` (p. 418), `ac-`
`tivemq::commands::ActiveMQTempTopic` (p. 435), and `ac-`
`tivemq::commands::ActiveMQTopic` (p. 467).

The documentation for this class was generated from the following file:

- `src/main/cms/Destination.h`

6.217 activemq::commands::ActiveMQDestination::DestinationFilter Struct Reference

```
#include <src/main/activemq/commands/ActiveMQDestination.h>
```

Static Public Attributes

- static const std::string **ANY_CHILD**
- static const std::string **ANY_DESCENDENT**

6.217.1 Field Documentation

6.217.1.1 const std::string
activemq::commands::ActiveMQDestination::DestinationFilter::ANY_
CHILD [static]

6.217.1.2 const std::string
activemq::commands::ActiveMQDestination::DestinationFilter::ANY_
DESCENDENT [static]

The documentation for this struct was generated from the following file:

- src/main/activemq/commands/**ActiveMQDestination.h**

6.218 activemq::commands::DestinationInfo Class Reference

#include <src/main/activemq/commands/DestinationInfo.h> Inheritance diagram for activemq::commands::DestinationInfo:

Public Member Functions

- **DestinationInfo** ()
- virtual **~DestinationInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **DestinationInfo * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConnectionId** > & **getConnectionId** () const
- virtual **Pointer**< **ConnectionId** > & **getConnectionId** ()
- virtual void **setConnectionId** (const **Pointer**< **ConnectionId** > &connectionId)
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual unsigned char **getOperationType** () const
- virtual void **setOperationType** (unsigned char operationType)
- virtual long long **getTimeout** () const
- virtual void **setTimeout** (long long timeout)
- virtual const std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** () const
- virtual std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** ()
- virtual void **setBrokerPath** (const std::vector< **decaf::lang::Pointer**< **BrokerId** > > &brokerPath)
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_DESTINATIONINFO** = 8

Protected Member Functions

- **DestinationInfo** (const **DestinationInfo** &)
- **DestinationInfo** & **operator=** (const **DestinationInfo** &)

Protected Attributes

- **Pointer**< **ConnectionId** > **connectionId**
- **Pointer**< **ActiveMQDestination** > **destination**
- unsigned char **operationType**
- long long **timeout**
- std::vector< **decaf::lang::Pointer**< **BrokerId** > > **brokerPath**

6.218.1 Constructor & Destructor Documentation

6.218.1.1 **activemq::commands::DestinationInfo::DestinationInfo** (const **DestinationInfo** &) [inline, protected]

6.218.1.2 **activemq::commands::DestinationInfo::DestinationInfo** ()

6.218.1.3 **virtual** **activemq::commands::DestinationInfo::~~DestinationInfo** () [virtual]

6.218.2 Member Function Documentation

6.218.2.1 **virtual** **DestinationInfo*** **activemq::commands::DestinationInfo::cloneDataStructure** () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

6.218.2.2 **virtual** **void** **activemq::commands::DestinationInfo::copyDataStructure** (const **DataStructure** * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.218.2.3 `virtual bool activemq::commands::DestinationInfo::equals (const DataStructure * value) const` [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.218.2.4 `virtual std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::DestinationInfo::getBrokerPath ()` [virtual]

6.218.2.5 `virtual const std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::DestinationInfo::getBrokerPath () const` [virtual]

6.218.2.6 `virtual Pointer<ConnectionId>& activemq::commands::DestinationInfo::getConnectionId ()` [virtual]

6.218.2.7 `virtual const Pointer<ConnectionId>& activemq::commands::DestinationInfo::getConnectionId () const` [virtual]

6.218.2.8 `virtual unsigned char activemq::commands::DestinationInfo::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements `activemq::commands::DataStructure` (p. 1176).

- 6.218.2.9 `virtual Pointer<ActiveMQDestination>& activemq::commands::DestinationInfo::getDestination ()`
[virtual]
- 6.218.2.10 `virtual const Pointer<ActiveMQDestination>& activemq::commands::DestinationInfo::getDestination () const`
[virtual]
- 6.218.2.11 `virtual unsigned char activemq::commands::DestinationInfo::getOperationType ()`
const [virtual]
- 6.218.2.12 `virtual long long activemq::commands::DestinationInfo::getTimeout ()`
const [virtual]
- 6.218.2.13 `DestinationInfo& activemq::commands::DestinationInfo::operator=`
(const DestinationInfo &) [inline, protected]
- 6.218.2.14 `virtual void activemq::commands::DestinationInfo::setBrokerPath`
(const std::vector< decaf::lang::Pointer< BrokerId > > & *brokerPath*)
[virtual]
- 6.218.2.15 `virtual void activemq::commands::DestinationInfo::setConnectionId`
(const Pointer< ConnectionId > & *connectionId*) [virtual]
- 6.218.2.16 `virtual void activemq::commands::DestinationInfo::setDestination`
(const Pointer< ActiveMQDestination > & *destination*) [virtual]
- 6.218.2.17 `virtual void activemq::commands::DestinationInfo::setOperationType`
(unsigned char *operationType*) [virtual]
- 6.218.2.18 `virtual void activemq::commands::DestinationInfo::setTimeout (long`
long *timeout*) [virtual]
- 6.218.2.19 `virtual std::string activemq::commands::DestinationInfo::toString ()`
const [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

- 6.218.2.20 `virtual Pointer<Command> activemq::commands::DestinationInfo::visit`
(activemq::state::CommandVisitor * *visitor*) throw (
exceptions::ActiveMQException) [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.218.3 Field Documentation

- 6.218.3.1** `std::vector< decaf::lang::Pointer<BrokerId> >`
`activemq::commands::DestinationInfo::brokerPath` [protected]
- 6.218.3.2** `Pointer<ConnectionId>` `activemq::commands::DestinationInfo::connectionId`
[protected]
- 6.218.3.3** `Pointer<ActiveMQDestination>` `activemq::commands::DestinationInfo::destination`
[protected]
- 6.218.3.4** `const unsigned char` `activemq::commands::DestinationInfo::ID_DESTINATIONINFO = 8` [static]
- 6.218.3.5** `unsigned char` `activemq::commands::DestinationInfo::operationType`
[protected]
- 6.218.3.6** `long long` `activemq::commands::DestinationInfo::timeout` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/DestinationInfo.h`

6.219 activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1199).

#include <src/main/activemq/wireformat/openwire/marshal/v3/DestinationInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller:

Public Member Functions

- **DestinationInfoMarshaller** ()
- virtual **~DestinationInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.219.1 Detailed Description

Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1199). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.219.2 Constructor & Destructor Documentation

6.219.2.1 `activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::DestinationInfoM`
`() [inline]`

6.219.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::~~DestinationInfoM`
`() [inline, virtual]`

6.219.3 Member Function Documentation

6.219.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.219.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::getDataStructureT`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.219.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure *`
`dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 515).

6.219.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 516).

6.219.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 517).

6.219.3.6 virtual void activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.219.3.7 virtual void activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**DestinationInfoMarshaller.h**

6.220 activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1203).

#include <src/main/activemq/wireformat/openwire/marshal/v1/DestinationInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller:

Public Member Functions

- **DestinationInfoMarshaller** ()
- virtual **~DestinationInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.220.1 Detailed Description

Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1203). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.220.2 Constructor & Destructor Documentation

6.220.2.1 `activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::DestinationInfoM`
`() [inline]`

6.220.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::~~DestinationInfo`
`() [inline, virtual]`

6.220.3 Member Function Documentation

6.220.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.220.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::getDataStructureT`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.220.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure *`
`dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.220.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.220.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.220.3.6 virtual void activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.220.3.7 virtual void activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**DestinationInfoMarshaller.h**

6.221 activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1207).

#include <src/main/activemq/wireformat/openwire/marshal/v2/DestinationInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller:

Public Member Functions

- **DestinationInfoMarshaller** ()
- virtual **~DestinationInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.221.1 Detailed Description

Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1207). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.221.2 Constructor & Destructor Documentation

6.221.2.1 `activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::DestinationInfoM`
`() [inline]`

6.221.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::~~DestinationInfo`
`() [inline, virtual]`

6.221.3 Member Function Documentation

6.221.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.221.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::getDataStructureT`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.221.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure *`
`dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.221.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.221.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.221.3.6 virtual void activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.221.3.7 virtual void activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**DestinationInfoMarshaller.h**

6.222 activemq::cmsutil::DestinationResolver Class Reference

Resolves a CMS destination name to a `Destination`.

#include <src/main/activemq/cmsutil/DestinationResolver.h> Inheritance diagram for `activemq::cmsutil::DestinationResolver`:

Public Member Functions

- virtual `~DestinationResolver ()`
- virtual void `init (ResourceLifecycleManager *mgr)=0`
Initializes this destination resolver for use.
- virtual void `destroy ()=0`
Destroys any allocated resources.
- virtual `cms::Destination * resolveDestinationName (cms::Session *session, const std::string &destName, bool pubSubDomain)=0` throw (`cms::CMSException`)
Resolves the given name to a destination.

6.222.1 Detailed Description

Resolves a CMS destination name to a `Destination`.

6.222.2 Constructor & Destructor Documentation

- 6.222.2.1** virtual `activemq::cmsutil::DestinationResolver::~~DestinationResolver ()` [inline, virtual]

6.222.3 Member Function Documentation

- 6.222.3.1** virtual void `activemq::cmsutil::DestinationResolver::destroy ()` [pure virtual]

Destroys any allocated resources.

Implemented in `activemq::cmsutil::DynamicDestinationResolver` (p. 1262).

- 6.222.3.2** virtual void `activemq::cmsutil::DestinationResolver::init (ResourceLifecycleManager * mgr)` [pure virtual]

Initializes this destination resolver for use. Ensures that any previously allocated resources are first destroyed (e.g. calls `destroy()` (p. 1211)).

Parameters:

mgr the resource lifecycle manager.

Implemented in **activemq::cmsutil::DynamicDestinationResolver** (p. 1263).

6.222.3.3 `virtual cms::Destination* activemq::cmsutil::DestinationResolver::resolveDestinationName (cms::Session * session, const std::string & destName, bool pubSubDomain) throw (cms::CMSException) [pure virtual]`

Resolves the given name to a destination. If `pubSubDomain` is true, a topic will be returned, otherwise a queue will be returned.

Parameters:

session the session for which to retrieve resolve the destination.

destName the name to be resolved.

pubSubDomain If true, the name will be resolved to a Topic, otherwise a Queue.

Returns:

the resolved destination

Exceptions:

cms::CMSException (p. 850) if resolution failed.

Implemented in **activemq::cmsutil::DynamicDestinationResolver** (p. 1263).

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/DestinationResolver.h`

6.223 activemq::commands::DiscoveryEvent Class Reference

#include <src/main/activemq/commands/DiscoveryEvent.h> Inheritance diagram for activemq::commands::DiscoveryEvent:

Public Member Functions

- **DiscoveryEvent** ()
- virtual **~DiscoveryEvent** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **DiscoveryEvent** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const std::string & **getServiceName** () const
- virtual std::string & **getServiceName** ()
- virtual void **setServiceName** (const std::string &serviceName)
- virtual const std::string & **getBrokerName** () const
- virtual std::string & **getBrokerName** ()
- virtual void **setBrokerName** (const std::string &brokerName)

Static Public Attributes

- static const unsigned char **ID_DISCOVERYEVENT** = 40

Protected Member Functions

- **DiscoveryEvent** (const **DiscoveryEvent** &)
- **DiscoveryEvent** & **operator=** (const **DiscoveryEvent** &)

Protected Attributes

- std::string **serviceName**
- std::string **brokerName**

6.223.1 Constructor & Destructor Documentation

6.223.1.1 `activemq::commands::DiscoveryEvent::DiscoveryEvent (const DiscoveryEvent &) [inline, protected]`

6.223.1.2 `activemq::commands::DiscoveryEvent::DiscoveryEvent ()`

6.223.1.3 `virtual activemq::commands::DiscoveryEvent::~~DiscoveryEvent () [virtual]`

6.223.2 Member Function Documentation

6.223.2.1 `virtual DiscoveryEvent* activemq::commands::DiscoveryEvent::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.223.2.2 `virtual void activemq::commands::DiscoveryEvent::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.223.2.3 `virtual bool activemq::commands::DiscoveryEvent::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

- 6.223.2.4 virtual std::string& activemq::commands::DiscoveryEvent::getBrokerName ()
[virtual]
- 6.223.2.5 virtual const std::string& activemq::commands::DiscoveryEvent::getBrokerName ()
const [virtual]
- 6.223.2.6 virtual unsigned char activemq::commands::DiscoveryEvent::getDataStructureType () const
[virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

- 6.223.2.7 virtual std::string& activemq::commands::DiscoveryEvent::getServiceName ()
[virtual]
- 6.223.2.8 virtual const std::string& activemq::commands::DiscoveryEvent::getServiceName ()
const [virtual]
- 6.223.2.9 DataSet& activemq::commands::DiscoveryEvent::operator=
(const DataSet &) [inline, protected]
- 6.223.2.10 virtual void activemq::commands::DiscoveryEvent::setBrokerName
(const std::string & *brokerName*) [virtual]
- 6.223.2.11 virtual void activemq::commands::DiscoveryEvent::setServiceName
(const std::string & *serviceName*) [virtual]
- 6.223.2.12 virtual std::string activemq::commands::DiscoveryEvent::toString ()
const [virtual]

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataSet** (p. 560).

6.223.3 Field Documentation

- 6.223.3.1 `std::string activemq::commands::DiscoveryEvent::brokerName`
[protected]
- 6.223.3.2 `const unsigned char activemq::commands::DiscoveryEvent::ID_ -`
`DISCOVERYEVENT = 40` [static]
- 6.223.3.3 `std::string activemq::commands::DiscoveryEvent::serviceName`
[protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/DiscoveryEvent.h`

6.224 activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller Class Reference

Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1217).

#include <src/main/activemq/wireformat/openwire/marshal/v3/DiscoveryEventMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller:

Public Member Functions

- **DiscoveryEventMarshaller** ()
- virtual **~DiscoveryEventMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.224.1 Detailed Description

Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1217). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.224.2 Constructor & Destructor Documentation

6.224.2.1 `activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::DiscoveryEventM
() [inline]`

6.224.2.2 `virtual
activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::~~DiscoveryEvent
() [inline, virtual]`

6.224.3 Member Function Documentation

6.224.3.1 `virtual commands::DataStructure* ac-
tivemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::createObject
() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.224.3.2 `virtual unsigned char ac-
tivemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::getDataStructureT
() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.224.3.3 `virtual void ac-
tivemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::looseMarshal
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, decaf::io::DataOutputStream * dataOut) throw (
decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.224.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.224.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.224.3.6 virtual void activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.224.3.7 virtual void activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/DiscoveryEventMarshaller.h

6.225 activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller Class Reference

Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1221).

#include <src/main/activemq/wireformat/openwire/marshal/v1/DiscoveryEventMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller:

Public Member Functions

- **DiscoveryEventMarshaller** ()
- virtual **~DiscoveryEventMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.225.1 Detailed Description

Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1221). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.225.2 Constructor & Destructor Documentation

6.225.2.1 `activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::DiscoveryEventM
() [inline]`

6.225.2.2 `virtual
activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::~~DiscoveryEvent
() [inline, virtual]`

6.225.3 Member Function Documentation

6.225.3.1 `virtual commands::DataStructure* ac-
tivemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::createObject
() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.225.3.2 `virtual unsigned char ac-
tivemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::getDataStructureT
() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.225.3.3 `virtual void ac-
tivemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::looseMarshal
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, decaf::io::DataOutputStream * dataOut) throw (
decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.225 activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller Class Reference 1223

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.225.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.225.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.225.3.6 virtual void activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.225.3.7 virtual void activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/DiscoveryEventMarshaller.h

6.226 activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller Class Reference

Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1225).

#include <src/main/activemq/wireformat/openwire/marshal/v2/DiscoveryEventMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller:

Public Member Functions

- **DiscoveryEventMarshaller** ()
- virtual **~DiscoveryEventMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.226.1 Detailed Description

Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1225). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.226.2 Constructor & Destructor Documentation

6.226.2.1 `activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::DiscoveryEventM`
`() [inline]`

6.226.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::~~DiscoveryEvent`
`() [inline, virtual]`

6.226.3 Member Function Documentation

6.226.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.226.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::getDataStructureT`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.226.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure *`
`dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.226.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.226.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.226.3.6 virtual void activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.226.3.7 virtual void activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/DiscoveryEventMarshaller.h

6.227 activemq::core::DispatchData Class Reference

Simple POCO that contains the information necessary to route a message to a specified consumer.

```
#include <src/main/activemq/core/DispatchData.h>
```

Public Member Functions

- **DispatchData** ()
- **DispatchData** (const decaf::lang::Pointer< commands::ConsumerId > &consumer, const decaf::lang::Pointer< commands::Message > &message)
- const decaf::lang::Pointer< commands::ConsumerId > & **getConsumerId** ()
- const decaf::lang::Pointer< commands::Message > & **getMessage** ()

6.227.1 Detailed Description

Simple POCO that contains the information necessary to route a message to a specified consumer.

6.227.2 Constructor & Destructor Documentation

6.227.2.1 **activemq::core::DispatchData::DispatchData** () [inline]

6.227.2.2 **activemq::core::DispatchData::DispatchData** (const decaf::lang::Pointer< commands::ConsumerId > & *consumer*, const decaf::lang::Pointer< commands::Message > & *message*) [inline]

6.227.3 Member Function Documentation

6.227.3.1 const decaf::lang::Pointer<commands::ConsumerId>& **activemq::core::DispatchData::getConsumerId** () [inline]

6.227.3.2 const decaf::lang::Pointer<commands::Message>& **activemq::core::DispatchData::getMessage** () [inline]

The documentation for this class was generated from the following file:

- src/main/activemq/core/**DispatchData.h**

6.228 activemq::core::Dispatcher Class Reference

Interface for an object responsible for dispatching messages to consumers.

#include <src/main/activemq/core/Dispatcher.h> Inheritance diagram for activemq::core::Dispatcher:

Public Member Functions

- virtual **~Dispatcher** ()
- virtual void **dispatch** (const **Pointer**< **MessageDispatch** > &message)=0
Dispatches a message to a particular consumer.

6.228.1 Detailed Description

Interface for an object responsible for dispatching messages to consumers.

6.228.2 Constructor & Destructor Documentation

6.228.2.1 virtual **activemq::core::Dispatcher::~Dispatcher** () [inline, virtual]

6.228.3 Member Function Documentation

6.228.3.1 virtual void **activemq::core::Dispatcher::dispatch** (const **Pointer**< **MessageDispatch** > & *message*) [pure virtual]

Dispatches a message to a particular consumer.

Parameters:

message - the message to be dispatched.

Implemented in **activemq::core::ActiveMQConsumer** (p. 223), and **activemq::core::ActiveMQSession** (p. 363).

The documentation for this class was generated from the following file:

- src/main/activemq/core/**Dispatcher.h**

6.229 decaf::lang::Double Class Reference

#include <src/main/decaf/lang/Double.h> Inheritance diagram for decaf::lang::Double:

Public Member Functions

- **Double** (double value)
- **Double** (const std::string &value) throw (exceptions::NumberFormatException)
- virtual ~**Double** ()
- virtual int **compareTo** (const **Double** &d) const
*Compares this **Double** (p. 1231) instance with another.*
- bool **equals** (const **Double** &d) const
- virtual bool **operator==** (const **Double** &d) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Double** &d) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual int **compareTo** (const double &d) const
*Compares this **Double** (p. 1231) instance with another.*
- bool **equals** (const double &d) const
- virtual bool **operator==** (const double &d) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const double &d) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- std::string **toString** () const
- virtual double **doubleValue** () const
Answers the double value which the receiver represents.
- virtual float **floatValue** () const
Answers the float value which the receiver represents.
- virtual unsigned char **byteValue** () const
Answers the byte value which the receiver represents.
- virtual short **shortValue** () const
Answers the short value which the receiver represents.
- virtual int **intValue** () const
Answers the int value which the receiver represents.
- virtual long long **longValue** () const

Answers the long value which the receiver represents.

- bool **isInfinite** () const
- bool **isNaN** () const

Static Public Member Functions

- static int **compare** (double d1, double d2)
Compares the two specified double values.
- static long long **doubleToLongBits** (double value)
Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "double format" bit layout.
- static long long **doubleToRawLongBits** (double value)
Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "double format" bit layout, preserving Not-a-Number (NaN) values.
- static bool **isInfinite** (double value)
- static bool **isNaN** (double value)
- static double **longBitsToDouble** (long long bits)
Returns the double value corresponding to a given bit representation.
- static double **parseDouble** (const std::string &value) throw (exceptions::NumberFormatException)
*Returns a new double initialized to the value represented by the specified string, as performed by the `valueOf` method of class **Double** (p. 1231).*
- static std::string **toHexString** (double value)
Returns a hexadecimal string representation of the double argument.
- static std::string **toString** (double value)
Returns a string representation of the double argument.
- static **Double** **valueOf** (double value)
*Returns a **Double** (p. 1231) instance representing the specified double value.*
- static **Double** **valueOf** (const std::string &value) throw (exceptions::NumberFormatException)
*Returns a **Double** (p. 1231) instance that wraps a primitive double which is parsed from the string value passed.*

Static Public Attributes

- static const int **SIZE** = 64
The size in bits of the primitive int type.
- static const double **MAX_VALUE**
The maximum value that the primitive type can hold.

- static const double **MIN_VALUE**
The minimum value that the primitive type can hold.
- static const double **NaN**
*Constant for the Not a **Number** (p. 1954) Value.*
- static const double **POSITIVE_INFINITY**
Constant for Positive Infinity.
- static const double **NEGATIVE_INFINITY**
Constant for Negative Infinity.

6.229.1 Constructor & Destructor Documentation

6.229.1.1 decaf::lang::Double::Double (double *value*)

Parameters:

value - the primitive type to wrap

6.229.1.2 decaf::lang::Double::Double (const std::string & *value*) throw (exceptions::NumberFormatException)

Parameters:

value - the string to convert to a primitive type to wrap

6.229.1.3 virtual decaf::lang::Double::~~Double () [inline, virtual]

6.229.2 Member Function Documentation

6.229.2.1 virtual unsigned char decaf::lang::Double::byteValue () const [inline, virtual]

Answers the byte value which the receiver represents.

Returns:

byte the value of the receiver.

Reimplemented from **decaf::lang::Number** (p. 1954).

6.229.2.2 static int decaf::lang::Double::compare (double *d1*, double *d2*) [static]

Compares the two specified double values. The sign of the integer value returned is the same as that of the integer that would be returned by the call: new Double(d1).compareTo(new Double(d2))

Parameters:

d1 - the first double to compare
d2 - the second double to compare

Returns:

the value 0 if d1 is numerically equal to d2; a value less than 0 if d1 is numerically less than d2; and a value greater than 0 if d1 is numerically greater than d2.

6.229.2.3 `virtual int decaf::lang::Double::compareTo (const double & d) const`
[virtual]

Compares this **Double** (p. 1231) instance with another.

Parameters:

d - the **Double** (p. 1231) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

Implements **decaf::lang::Comparable**< **double** > (p. 899).

6.229.2.4 `virtual int decaf::lang::Double::compareTo (const Double & d) const`
[virtual]

Compares this **Double** (p. 1231) instance with another.

Parameters:

d - the **Double** (p. 1231) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

6.229.2.5 `static long long decaf::lang::Double::doubleToLongBits (double value)`
[static]

Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "double format" bit layout. Bit 63 (the bit that is selected by the mask 0x8000000000000000L) represents the sign of the floating-point number. Bits 62-52 (the bits that are selected by the mask 0x7ff0000000000000L) represent the exponent. Bits 51-0 (the bits that are selected by the mask 0x000fffffffffffffL) represent the significand (sometimes called the mantissa) of the floating-point number.

If the argument is positive infinity, the result is 0x7ff0000000000000L. If the argument is negative infinity, the result is 0xfff0000000000000L. If the argument is NaN, the result is 0x7ff8000000000000L.

In all cases, the result is a long integer that, when given to the longBitsToDouble(long) method, will produce a floating-point value the same as the argument to doubleToLongBits (except all NaN values are collapsed to a single "canonical" NaN value).

Parameters:

value - double to be converted

Returns:

the long long bits that make up the double

6.229.2.6 static long long decaf::lang::Double::doubleToRawLongBits (double *value*) [static]

Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "double format" bit layout, preserving Not-a-Number (NaN) values. Bit 63 (the bit that is selected by the mask 0x8000000000000000LL) represents the sign of the floating-point number. Bits 62-52 (the bits that are selected by the mask 0x7ff0000000000000L) represent the exponent. Bits 51-0 (the bits that are selected by the mask 0x000fffffffffffL) represent the significand (sometimes called the mantissa) of the floating-point number.

If the argument is positive infinity, the result is 0x7ff0000000000000LL. If the argument is negative infinity, the result is 0xfff0000000000000LL. If the argument is NaN, the result is the long integer representing the actual NaN value. Unlike the doubleToLongBits method, doubleToRawLongBits does not collapse all the bit patterns encoding a NaN to a single "canonical" NaN value.

In all cases, the result is a long integer that, when given to the longBitsToDouble(long) method, will produce a floating-point value the same as the argument to doubleToRawLongBits.

Parameters:

value - double to be converted

Returns:

the long long bits that make up the double

6.229.2.7 virtual double decaf::lang::Double::doubleValue () const [inline, virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.229.2.8 `bool decaf::lang::Double::equals (const double & d) const` [inline, virtual]

Parameters:

d - the **Double** (p. 1231) object to compare against.

Returns:

true if the two **Double** (p. 1231) Objects have the same value.

Implements **decaf::lang::Comparable< double >** (p. 900).

6.229.2.9 `bool decaf::lang::Double::equals (const Double & d) const` [inline]

Parameters:

d - the **Double** (p. 1231) object to compare against.

Returns:

true if the two **Double** (p. 1231) Objects have the same value.

6.229.2.10 `virtual float decaf::lang::Double::floatValue () const` [inline, virtual]

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.229.2.11 `virtual int decaf::lang::Double::intValue () const` [inline, virtual]

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.229.2.12 `static bool decaf::lang::Double::isInfinite (double value)` [static]

Parameters:

value - The double to check.

Returns:

true if the double is equal to infinity.

6.229.2.13 `bool decaf::lang::Double::isInfinite () const`**Returns:**

true if the double is equal to positive infinity.

6.229.2.14 `static bool decaf::lang::Double::isNaN (double value) [static]`**Parameters:**

value - The double to check.

Returns:

true if the double is equal to NaN.

6.229.2.15 `bool decaf::lang::Double::isNaN () const`**Returns:**

true if the double is equal to NaN.

6.229.2.16 `static double decaf::lang::Double::longBitsToDouble (long long bits) [static]`

Returns the double value corresponding to a given bit representation. The argument is considered to be a representation of a floating-point value according to the IEEE 754 floating-point "double format" bit layout.

If the argument is 0x7ff0000000000000L, the result is positive infinity. If the argument is 0xfff0000000000000L, the result is negative infinity. If the argument is any value in the range 0x7ff0000000000001L through 0x7fffffffffffffffL or in the range 0xfff0000000000001L through 0xfffffffffffffffL, the result is a NaN. No IEEE 754 floating-point operation provided by C++ can distinguish between two NaN values of the same type with different bit patterns. Distinct values of NaN are only distinguishable by use of the **Double.doubleToRawLongBits** (p. 1235) method.

Parameters:

bits - the long long bits to convert to double

Returns:

the double converted from the bits

6.229.2.17 `virtual long long decaf::lang::Double::longValue () const [inline, virtual]`

Answers the long value which the receiver represents.

Returns:

long the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.229.2.18 `virtual bool decaf::lang::Double::operator< (const double & d) const`
[inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

d - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements `decaf::lang::Comparable< double >` (p. 900).

6.229.2.19 `virtual bool decaf::lang::Double::operator< (const Double & d) const`
[inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

d - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.229.2.20 `virtual bool decaf::lang::Double::operator== (const double & d) const`
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

d - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements `decaf::lang::Comparable< double >` (p. 901).

6.229.2.21 `virtual bool decaf::lang::Double::operator== (const Double & d) const`
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

d - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

**6.229.2.22 static double decaf::lang::Double::parseDouble (const std::string *value*)
throw (exceptions::NumberFormatException) [static]**

Returns a new double initialized to the value represented by the specified string, as performed by the `valueOf` method of class **Double** (p.1231).

Parameters:

value - The string to parse to an double

Returns:

a double parsed from the passed string

Exceptions:

NumberFormatException

6.229.2.23 virtual short decaf::lang::Double::shortValue () const [inline, virtual]

Answers the short value which the receiver represents.

Returns:

short the value of the receiver.

Reimplemented from **decaf::lang::Number** (p.1956).

**6.229.2.24 static std::string decaf::lang::Double::toHexString (double *value*)
[static]**

Returns a hexadecimal string representation of the double argument. All characters mentioned below are ASCII characters.

* If the argument is NaN, the result is the string "NaN". * Otherwise, the result is a string that represents the sign and magnitude (absolute value) of the argument. If the sign is negative, the first character of the result is '-'; if the sign is positive, no sign character appears in the result. As for the magnitude m: o If m is infinity, it is represented by the string "Infinity"; thus, positive infinity produces the result "Infinity" and negative infinity produces the result "-Infinity". o If m is zero, it is represented by the string "0x0.0p0"; thus, negative zero produces the result "-0x0.0p0" and positive zero produces the result "0x0.0p0". o If m is a double value with a normalized representation, substrings are used to represent the significand and exponent fields. The significand is represented by the characters "0x1." followed by a lowercase hexadecimal representation of the rest of the significand as a fraction. Trailing zeros in the hexadecimal representation are removed unless all the digits are zero, in which case a single zero is used. Next, the exponent is represented by "p" followed by a decimal string of the unbiased exponent as if produced by a call to **Integer.toString** (p.1440) on the exponent value. o If m is a double value with a subnormal representation, the significand is represented by the characters "0x0." followed by a hexadecimal representation of the rest of the significand as a fraction. Trailing zeros in the hexadecimal representation are removed. Next, the exponent is represented by "p-126". Note that there must be at least one nonzero digit in a subnormal significand.

Parameters:

value - The double to convert to a string

Returns:

the Hex formatted double string.

6.229.2.25 static std::string decaf::lang::Double::toString (double *value*) [static]

Returns a string representation of the double argument. All characters mentioned below are ASCII characters.

If the argument is NaN, the result is the string "NaN". Otherwise, the result is a string that represents the sign and magnitude (absolute value) of the argument. If the sign is negative, the first character of the result is '-'; if the sign is positive, no sign character appears in the result. As for the magnitude *m*:
 o If *m* is infinity, it is represented by the characters "Infinity"; thus, positive infinity produces the result "Infinity" and negative infinity produces the result "-Infinity".
 o If *m* is zero, it is represented by the characters "0.0"; thus, negative zero produces the result "-0.0" and positive zero produces the result "0.0".
 o If *m* is greater than or equal to 10⁻³ but less than 10⁷, then it is represented as the integer part of *m*, in decimal form with no leading zeroes, followed by '.', followed by one or more decimal digits representing the fractional part of *m*.
 o If *m* is less than 10⁻³ or greater than or equal to 10⁷, then it is represented in so-called "computerized scientific notation." Let *n* be the unique integer such that 10^{*n*} ≤ *m* < 10^{*n*+1}; then let *a* be the mathematically exact quotient of *m* and 10^{*n*} so that 1 ≤ *a* < 10. The magnitude is then represented as the integer part of *a*, as a single decimal digit, followed by '.', followed by decimal digits representing the fractional part of *a*, followed by the letter 'E', followed by a representation of *n* as a decimal integer, as produced by the method **Integer.toString(int)** (p. 1440).

Parameters:

value - The double to convert to a string

Returns:

the formatted double string.

6.229.2.26 std::string decaf::lang::Double::toString () const**Returns:**

this **Double** (p. 1231) Object as a String Representation

6.229.2.27 static Double decaf::lang::Double::valueOf (const std::string & *value*) throw (exceptions::NumberFormatException) [static]

Returns a **Double** (p. 1231) instance that wraps a primitive double which is parsed from the string value passed.

Parameters:

value - the string to parse

Returns:

a new **Double** (p. 1231) instance wrapping the double parsed from value

Exceptions:

NumberFormatException on error.

6.229.2.28 static Double decaf::lang::Double::valueOf (double *value*) [static]

Returns a **Double** (p. 1231) instance representing the specified double value.

Parameters:

value - double to wrap

Returns:

new **Double** (p. 1231) instance wrapping the primitive value

6.229.3 Field Documentation**6.229.3.1 const double decaf::lang::Double::MAX_VALUE [static]**

The maximum value that the primitive type can hold.

6.229.3.2 const double decaf::lang::Double::MIN_VALUE [static]

The minimum value that the primitive type can hold.

6.229.3.3 const double decaf::lang::Double::NaN [static]

Constant for the Not a **Number** (p. 1954) Value.

6.229.3.4 const double decaf::lang::Double::NEGATIVE_INFINITY [static]

Constant for Negative Infinity.

6.229.3.5 const double decaf::lang::Double::POSITIVE_INFINITY [static]

Constant for Positive Infinity.

6.229.3.6 const int decaf::lang::Double::SIZE = 64 [static]

The size in bits of the primitive int type.

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**Double.h**

6.230 decaf::internal::nio::DoubleArrayBuffer Class Reference

#include <src/main/decaf/internal/nio/DoubleArrayBuffer.h> Inheritance diagram for decaf::internal::nio::DoubleArrayBuffer:

Public Member Functions

- **DoubleArrayBuffer** (std::size_t capacity, bool readOnly=false)
*Creates a **DoubleArrayBuffer** (p. 1242) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*
- **DoubleArrayBuffer** (double *array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::NullPointerException)
*Creates a **DoubleArrayBuffer** (p. 1242) object that wraps the given array.*
- **DoubleArrayBuffer** (ByteArrayPerspective &array, std::size_t offset, std::size_t length, bool readOnly=false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
*Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset.*
- **DoubleArrayBuffer** (const DoubleArrayBuffer &other)
*Create a **DoubleArrayBuffer** (p. 1242) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.*
- virtual ~**DoubleArrayBuffer** ()
- virtual double * **array** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the double array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual DoubleBuffer * **asReadOnlyBuffer** () const
Creates a new, read-only double buffer that shares this buffer's content.
- virtual DoubleBuffer & **compact** () throw (decaf::nio::ReadOnlyBufferException)
Compacts this buffer.
- virtual DoubleBuffer * **duplicate** ()
Creates a new double buffer that shares this buffer's content.
- virtual double **get** () throw (decaf::nio::BufferUnderflowException)
Relative get method.

- virtual double **get** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- virtual bool **hasArray** () const
Tells whether or not this buffer is backed by an accessible double array.
- virtual bool **isReadOnly** () const
Tells whether or not this buffer is read-only.
- virtual DoubleBuffer & **put** (double value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the current position, and then increments the position.
- virtual DoubleBuffer & **put** (std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the given index.
- virtual DoubleBuffer * **slice** () const
Creates a new DoubleBuffer whose content is a shared subsequence of this buffer's content.

Protected Member Functions

- virtual void **setReadOnly** (bool value)
*Sets this *ByteBuffer* (p. 694) as Read-Only.*

6.230.1 Constructor & Destructor Documentation

6.230.1.1 decaf::internal::nio::DoubleArrayBuffer::DoubleArrayBuffer (std::size_t capacity, bool readOnly = false)

Creates a **DoubleArrayBuffer** (p. 1242) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

6.230.1.2 decaf::internal::nio::DoubleArrayBuffer::DoubleArrayBuffer (double * array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::NullPointerException)

Creates a **DoubleArrayBuffer** (p. 1242) object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap
offset - the position that is this buffers start pos.
capacity - size of the array, this is the limit we read and write to.
readOnly - should this buffer be read-only, default as false

Exceptions:

NullPointerException if buffer is NULL

6.230.1.3 `decaf::internal::nio::DoubleArrayBuffer::DoubleArrayBuffer (ByteArrayPerspective & array, std::size_t offset, std::size_t length, bool readOnly = false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)`

Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset. The capacity and limit of the new **DoubleArrayBuffer** (p. 1242) will be that of the remaining capacity of the passed buffer.

Parameters:

array - the **ByteArrayPerspective** (p. 729) to wrap
offset - the offset into array where the buffer starts
length - the length of the array we are wrapping or limit.
readOnly - is this a readOnly buffer.

Exceptions:

IndexOutOfBoundsException if offset is greater than array capacity.

6.230.1.4 `decaf::internal::nio::DoubleArrayBuffer::DoubleArrayBuffer (const DoubleArrayBuffer & other)`

Create a **DoubleArrayBuffer** (p. 1242) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.

Parameters:

other - the **DoubleArrayBuffer** (p. 1242) this one is to mirror.

6.230.1.5 `virtual decaf::internal::nio::DoubleArrayBuffer::~~DoubleArrayBuffer () [virtual]`

6.230.2 Member Function Documentation

6.230.2.1 `virtual double* decaf::internal::nio::DoubleArrayBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the double array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this Buffer

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements `decaf::nio::DoubleBuffer` (p. 1253).

6.230.2.2 `virtual std::size_t decaf::internal::nio::DoubleArrayBuffer::arrayOffset
() throw (decaf::lang::exceptions::UnsupportedOperationException,
decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements `decaf::nio::DoubleBuffer` (p. 1253).

6.230.2.3 `virtual DoubleBuffer* de-
caf::internal::nio::DoubleArrayBuffer::asReadOnlyBuffer ()
const [virtual]`

Creates a new, read-only double buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only double buffer which the caller then owns.

Implements `decaf::nio::DoubleBuffer` (p. 1253).

6.230.2.4 **virtual DoubleBuffer& decaf::internal::nio::DoubleArrayBuffer::compact** () throw (decaf::nio::ReadOnlyBufferException) [virtual]

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \text{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index $\text{limit}()$ (p. 631) - 1 is copied to index $n = \text{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this DoubleBuffer

Exceptions:

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::DoubleBuffer** (p. 1254).

6.230.2.5 **virtual DoubleBuffer* decaf::internal::nio::DoubleArrayBuffer::duplicate** () [virtual]

Creates a new double buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new double Buffer which the caller owns.

Implements **decaf::nio::DoubleBuffer** (p. 1254).

6.230.2.6 **virtual double decaf::internal::nio::DoubleArrayBuffer::get (std::size_t** *index*) const throw (lang::exceptions::IndexOutOfBoundsException)

[virtual]

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the Buffer where the double is to be read

Returns:

the double that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::DoubleBuffer** (p. 1256).

6.230.2.7 virtual double decaf::internal::nio::DoubleArrayBuffer::get () throw (decaf::nio::BufferUnderflowException) [virtual]

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the double at the current position

Exceptions:

BufferUnderflowException if there no more data to return

Implements **decaf::nio::DoubleBuffer** (p. 1256).

6.230.2.8 virtual bool decaf::internal::nio::DoubleArrayBuffer::hasArray () const [inline, virtual]

Tells whether or not this buffer is backed by an accessible double array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implements **decaf::nio::DoubleBuffer** (p. 1256).

6.230.2.9 virtual bool decaf::internal::nio::DoubleArrayBuffer::isReadOnly () const [inline, virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::Buffer** (p. 630).

6.230.2.10 virtual DoubleBuffer& decaf::internal::nio::DoubleArrayBuffer::put (std::size_t *index*, double *value*) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes the given doubles into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the doubles to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::DoubleBuffer** (p. 1257).

6.230.2.11 **virtual DoubleBuffer& decaf::internal::nio::DoubleArrayBuffer::put (double *value*) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)** [virtual]

Writes the given doubles into this buffer at the current position, and then increments the position.

Parameters:

value - the doubles value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::DoubleBuffer** (p. 1257).

6.230.2.12 **virtual void decaf::internal::nio::DoubleArrayBuffer::setReadOnly (bool *value*)** [inline, protected, virtual]

Sets this **ByteBuffer** (p. 694) as Read-Only.

Parameters:

value - true if this buffer is to be read-only.

6.230.2.13 **virtual DoubleBuffer* decaf::internal::nio::DoubleArrayBuffer::slice () const** [virtual]

Creates a new DoubleBuffer whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create DoubleBuffer which the caller owns.

Implements `decaf::nio::DoubleBuffer` (p. 1259).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/nio/DoubleArrayBuffer.h`

6.231 decaf::nio::DoubleBuffer Class Reference

This class defines four categories of operations upon double buffers:

#include <src/main/decaf/nio/DoubleBuffer.h> Inheritance diagram for decaf::nio::DoubleBuffer:

Public Member Functions

- virtual **~DoubleBuffer** ()
- virtual std::string **toString** () const
- virtual double * **array** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the double array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual **DoubleBuffer** * **asReadOnlyBuffer** () const =0
Creates a new, read-only double buffer that shares this buffer's content.
- virtual **DoubleBuffer** & **compact** ()=0 throw (ReadOnlyBufferException)
Compacts this buffer.
- virtual **DoubleBuffer** * **duplicate** ()=0
Creates a new double buffer that shares this buffer's content.
- virtual double **get** ()=0 throw (BufferUnderflowException)
Relative get method.
- virtual double **get** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- **DoubleBuffer** & **get** (std::vector< double > buffer) throw (BufferUnderflowException)
Relative bulk get method.
- **DoubleBuffer** & **get** (double *buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)
Relative bulk get method.
- virtual bool **hasArray** () const =0
Tells whether or not this buffer is backed by an accessible double array.
- **DoubleBuffer** & **put** (**DoubleBuffer** &src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)
This method transfers the doubles remaining in the given source buffer into this buffer.

- **DoubleBuffer** & **put** (const double *buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)

This method transfers doubles into this buffer from the given source array.

- **DoubleBuffer** & **put** (std::vector< double > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)

This method transfers the entire content of the given source doubles array into this buffer.

- virtual **DoubleBuffer** & **put** (double value)=0 throw (BufferOverflowException, ReadOnlyBufferException)

Writes the given doubles into this buffer at the current position, and then increments the position.

- virtual **DoubleBuffer** & **put** (std::size_t index, double value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)

Writes the given doubles into this buffer at the given index.

- virtual **DoubleBuffer** * **slice** () const =0

*Creates a new **DoubleBuffer** (p. 1250) whose content is a shared subsequence of this buffer's content.*

- virtual int **compareTo** (const **DoubleBuffer** &value) const

Compares this object with the specified object for order.

- virtual bool **equals** (const **DoubleBuffer** &value) const

- virtual bool **operator==** (const **DoubleBuffer** &value) const

Compares equality between this object and the one passed.

- virtual bool **operator<** (const **DoubleBuffer** &value) const

Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static **DoubleBuffer** * **allocate** (std::size_t capacity)

Allocates a new Double buffer.

- static **DoubleBuffer** * **wrap** (double *array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)

*Wraps the passed buffer with a new **DoubleBuffer** (p. 1250).*

- static **DoubleBuffer** * **wrap** (std::vector< double > &buffer)

*Wraps the passed STL double Vector in a **DoubleBuffer** (p. 1250).*

Protected Member Functions

- **DoubleBuffer** (std::size_t capacity)

*Creates a **DoubleBuffer** (p. 1250) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*

6.231.1 Detailed Description

This class defines four categories of operations upon double buffers: o Absolute and relative get and put methods that read and write single doubles; o Relative bulk get methods that transfer contiguous sequences of doubles from this buffer into an array; and o Relative bulk put methods that transfer contiguous sequences of doubles from a double array or some other double buffer into this buffer o Methods for compacting, duplicating, and slicing a double buffer.

Double buffers can be created either by allocation, which allocates space for the buffer's content, by wrapping an existing double array into a buffer, or by creating a view of an existing byte buffer

Methods in this class that do not otherwise have a value to return are specified to return the buffer upon which they are invoked. This allows method invocations to be chained.

6.231.2 Constructor & Destructor Documentation

6.231.2.1 decaf::nio::DoubleBuffer::DoubleBuffer (std::size_t capacity) [protected]

Creates a **DoubleBuffer** (p. 1250) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size and limit of the **Buffer** (p. 627) in doubles

6.231.2.2 virtual decaf::nio::DoubleBuffer::~~DoubleBuffer () [inline, virtual]

6.231.3 Member Function Documentation

6.231.3.1 static DoubleBuffer* decaf::nio::DoubleBuffer::allocate (std::size_t capacity) [static]

Allocates a new Double buffer. The new buffer's position will be zero, its limit will be its capacity, and its mark will be undefined. It will have a backing array, and its array offset will be zero.

Parameters:

capacity - The size of the Double buffer in doubles

Returns:

the **DoubleBuffer** (p. 1250) that was allocated, caller owns.

6.231.3.2 virtual double* decaf::nio::DoubleBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the double array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this **Buffer** (p. 627)

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1244).

6.231.3.3 virtual std::size_t decaf::nio::DoubleBuffer::arrayOffset () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1245).

6.231.3.4 virtual DoubleBuffer* decaf::nio::DoubleBuffer::asReadOnlyBuffer () const [pure virtual]

Creates a new, read-only double buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only double buffer which the caller then owns.

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1245).

6.231.3.5 **virtual DoubleBuffer& decaf::nio::DoubleBuffer::compact () throw (ReadOnlyBufferException)** [pure virtual]

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \text{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index $\text{limit}()$ (p. 631) - 1 is copied to index $n = \text{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **DoubleBuffer** (p. 1250)

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1246).

6.231.3.6 **virtual int decaf::nio::DoubleBuffer::compareTo (const DoubleBuffer &value) const** [virtual]

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

6.231.3.7 **virtual DoubleBuffer* decaf::nio::DoubleBuffer::duplicate ()** [pure virtual]

Creates a new double buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new double **Buffer** (p. 627) which the caller owns.

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1246).

6.231.3.8 virtual bool decaf::nio::DoubleBuffer::equals (const DoubleBuffer & *value*) const [virtual]

Returns:

true if this value is considered equal to the passed value.

6.231.3.9 DoubleBuffer& decaf::nio::DoubleBuffer::get (double * *buffer*, std::size_t *offset*, std::size_t *length*) throw (BufferUnderflowException, lang::exceptions::NullPointerException)

Relative bulk get method. This method transfers doubles from this buffer into the given destination array. If there are fewer doubles remaining in the buffer than are required to satisfy the request, that is, if *length* > **remaining()** (p. 632), then no bytes are transferred and a **BufferUnderflowException** (p. 661) is thrown.

Otherwise, this method copies *length* doubles from this buffer into the given array, starting at the current position of this buffer and at the given *offset* in the array. The position of this buffer is then incremented by *length*.

Parameters:

buffer - pointer to an allocated buffer to fill

offset - position in the buffer to start filling

length - amount of data to put in the passed buffer

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* doubles remaining in this buffer

NullPointerException if the passed buffer is null.

6.231.3.10 DoubleBuffer& decaf::nio::DoubleBuffer::get (std::vector< double > *buffer*) throw (BufferUnderflowException)

Relative bulk get method. This method transfers values from this buffer into the given destination vector. An invocation of this method of the form *src.get(a)* behaves in exactly the same way as the invocation. The vector must be sized to the amount of data that is to be read, that is to say, the caller should call *buffer.resize(N)* before calling this get method.

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* doubles remaining in this buffer

6.231.3.11 `virtual double decaf::nio::DoubleBuffer::get (std::size_t index) const
throw (lang::exceptions::IndexOutOfBoundsException) [pure
virtual]`

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the **Buffer** (p. 627) where the double is to be read

Returns:

the double that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1246).

6.231.3.12 `virtual double decaf::nio::DoubleBuffer::get () throw (
BufferUnderflowException) [pure virtual]`

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the double at the current position

Exceptions:

BufferUnderflowException (p. 661) if there no more data to return

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1247).

6.231.3.13 `virtual bool decaf::nio::DoubleBuffer::hasArray () const [pure virtual]`

Tells whether or not this buffer is backed by an accessible double array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1247).

6.231.3.14 `virtual bool decaf::nio::DoubleBuffer::operator< (const DoubleBuffer &
value) const [virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.231.3.15 `virtual bool decaf::nio::DoubleBuffer::operator==(const DoubleBuffer & value) const` [virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.231.3.16 `virtual DoubleBuffer& decaf::nio::DoubleBuffer::put(std::size_t index, double value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes the given doubles into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the doubles to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1247).

6.231.3.17 `virtual DoubleBuffer& decaf::nio::DoubleBuffer::put(double value) throw (BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes the given doubles into this buffer at the current position, and then increments the position.

Parameters:

value - the doubles value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1248).

6.231.3.18 **DoubleBuffer& decaf::nio::DoubleBuffer::put (std::vector< double > & buffer) throw (BufferOverflowException, ReadOnlyBufferException)**

This method transfers the entire content of the given source doubles array into this buffer. This is the same as calling `put(&buffer[0], 0, buffer.size()`

Parameters:

buffer - The buffer whose contents are copied to this **DoubleBuffer** (p. 1250)

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.231.3.19 **DoubleBuffer& decaf::nio::DoubleBuffer::put (const double * buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)**

This method transfers doubles into this buffer from the given source array. If there are more doubles to be copied from the array than remain in this buffer, that is, if `length > remaining()` (p. 632), then no doubles are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `length` bytes from the given array into this buffer, starting at the given `offset` in the array and at the current position of this buffer. The position of this buffer is then incremented by `length`.

Parameters:

buffer- The array from which doubles are to be read

offset- The offset within the array of the first double to be read;

length - The number of doubles to be read from the given array

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only
NullPointerException if the passed buffer is null.

6.231.3.20 DoubleBuffer& decaf::nio::DoubleBuffer::put (DoubleBuffer & src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)

This method transfers the doubles remaining in the given source buffer into this buffer. If there are more doubles remaining in the source buffer than in this buffer, that is, if `src.remaining() > remaining()` (p. 632), then no doubles are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `n = src.remaining()` doubles from the given buffer into this buffer, starting at each buffer's current position. The positions of both buffers are then incremented by `n`.

Parameters:

src - the buffer to take doubles from an place in this one.

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer for the remaining doubles in the source buffer

IllegalArgumentException - If the source buffer is this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.231.3.21 virtual DoubleBuffer* decaf::nio::DoubleBuffer::slice () const [pure virtual]

Creates a new **DoubleBuffer** (p. 1250) whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **DoubleBuffer** (p. 1250) which the caller owns.

Implemented in **decaf::internal::nio::DoubleArrayBuffer** (p. 1248).

6.231.3.22 virtual std::string decaf::nio::DoubleBuffer::toString () const [virtual]

Returns:

a `std::string` describing this object

6.231.3.23 `static DoubleBuffer* decaf::nio::DoubleBuffer::wrap (std::vector< double > & buffer) [static]`

Wraps the passed STL double Vector in a **DoubleBuffer** (p. 1250). The new buffer will be backed by the given double array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new **DoubleBuffer** (p. 1250) that is backed by *buffer*, caller owns.

6.231.3.24 `static DoubleBuffer* decaf::nio::DoubleBuffer::wrap (double * array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new **DoubleBuffer** (p. 1250). The new buffer will be backed by the given double array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

array - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new **DoubleBuffer** (p. 1250) that is backed by *buffer*, caller owns.

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/DoubleBuffer.h`

6.232 decaf::lang::DYNAMIC_CAST_TOKEN Struct Reference

```
#include <src/main/decaf/lang/Pointer.h>
```

The documentation for this struct was generated from the following file:

- `src/main/decaf/lang/Pointer.h`

6.233 activemq::cmsutil::DynamicDestinationResolver Class Reference

Resolves a CMS destination name to a `Destination`.

#include <src/main/activemq/cmsutil/DynamicDestinationResolver.h> Inheritance diagram for `activemq::cmsutil::DynamicDestinationResolver`:

Data Structures

- class `SessionResolver`

Manages maps of names to topics and queues for a single session.

Public Member Functions

- virtual `~DynamicDestinationResolver ()`
- virtual void `init (ResourceLifecycleManager *mgr)`
Initializes this destination resolver for use.
- virtual void `destroy ()`
Destroys any allocated resources.
- virtual `cms::Destination * resolveDestinationName (cms::Session *session, const std::string &destName, bool pubSubDomain) throw (cms::CMSEException)`
Resolves the given name to a destination.

6.233.1 Detailed Description

Resolves a CMS destination name to a `Destination`.

6.233.2 Constructor & Destructor Documentation

- 6.233.2.1** virtual
`activemq::cmsutil::DynamicDestinationResolver::~~DynamicDestinationResolver ()` [virtual]

6.233.3 Member Function Documentation

- 6.233.3.1** virtual void `activemq::cmsutil::DynamicDestinationResolver::destroy ()` [virtual]

Destroys any allocated resources.

Implements `activemq::cmsutil::DestinationResolver` (p. 1211).

6.233.3.2 virtual void activemq::cmsutil::DynamicDestinationResolver::init (ResourceLifecycleManager * *mgr*) [inline, virtual]

Initializes this destination resolver for use. Ensures that any previously allocated resources are first destroyed (e.g. calls **destroy()** (p.1262)).

Parameters:

mgr the resource lifecycle manager.

Implements **activemq::cmsutil::DestinationResolver** (p.1211).

6.233.3.3 virtual cms::Destination* activemq::cmsutil::DynamicDestinationResolver::resolveDestinationName (cms::Session * *session*, const std::string & *destName*, bool *pubSubDomain*) throw (cms::CMSException) [virtual]

Resolves the given name to a destination. If *pubSubDomain* is true, a topic will be returned, otherwise a queue will be returned.

Parameters:

session the session for which to retrieve resolve the destination.

destName the name to be resolved.

pubSubDomain If true, the name will be resolved to a Topic, otherwise a Queue.

Returns:

the resolved destination

Exceptions:

cms::CMSException (p. 850) if resolution failed.

Implements **activemq::cmsutil::DestinationResolver** (p.1212).

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/DynamicDestinationResolver.h

6.234 decaf::util::Map< K, V, COMPARATOR >::Entry Class Reference

```
#include <src/main/decaf/util/Map.h>
```

Public Member Functions

- **Entry** ()
- virtual **~Entry** ()
- const K & **getKey** () const =0
- const V & **getValue** () const =0
- void **setValue** (const V &value)=0

```
template<typename K, typename V, typename COMPARATOR = std::less<K>>  
class decaf::util::Map< K, V, COMPARATOR >::Entry
```

6.234.1 Constructor & Destructor Documentation

6.234.1.1 `template<typename K, typename V, typename COMPARATOR = std::less<K>> decaf::util::Map< K, V, COMPARATOR >::Entry::Entry () [inline]`

6.234.1.2 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual decaf::util::Map< K, V, COMPARATOR >::Entry::~Entry () [inline, virtual]`

6.234.2 Member Function Documentation

6.234.2.1 `template<typename K, typename V, typename COMPARATOR = std::less<K>> const K& decaf::util::Map< K, V, COMPARATOR >::Entry::getKey () const [pure virtual]`

6.234.2.2 `template<typename K, typename V, typename COMPARATOR = std::less<K>> const V& decaf::util::Map< K, V, COMPARATOR >::Entry::getValue () const [pure virtual]`

6.234.2.3 `template<typename K, typename V, typename COMPARATOR = std::less<K>> void decaf::util::Map< K, V, COMPARATOR >::Entry::setValue (const V & value) [pure virtual]`

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Map.h`

6.235 decaf::io::EOFException Class Reference

#include <src/main/decaf/io/EOFException.h> Inheritance diagram for decaf::io::EOFException:

Public Member Functions

- **EOFException** () throw ()
Default Constructor.
- **EOFException** (const lang::Exception &ex) throw ()
Copy Constructor.
- **EOFException** (const EOFException &ex) throw ()
Copy Constructor.
- **EOFException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **EOFException** (const std::exception *cause) throw ()
Constructor.
- **EOFException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor.
- virtual **EOFException** * clone () const
Clones this exception.
- virtual ~**EOFException** () throw ()

6.235.1 Constructor & Destructor Documentation

6.235.1.1 decaf::io::EOFException::EOFException () throw () [inline]

Default Constructor.

6.235.1.2 decaf::io::EOFException::EOFException (const lang::Exception & ex) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy

6.235.1.3 `decaf::io::EOFException::EOFException (const EOFException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex the exception to copy, which is an instance of this type

6.235.1.4 `decaf::io::EOFException::EOFException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.235.1.5 `decaf::io::EOFException::EOFException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.235.1.6 `decaf::io::EOFException::EOFException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor.

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.235.1.7 `virtual decaf::io::EOFException::~~EOFException () throw () [inline, virtual]`

6.235.2 Member Function Documentation

6.235.2.1 `virtual EOFException* decaf::io::EOFException::clone () const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new instance of an Exception that is a copy of this one.

Reimplemented from **decaf::io::IOException** (p. 1479).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/EOFException.h`

6.236 decaf::lang::Exception Class Reference

#include <src/main/decaf/lang/Exception.h> Inheritance diagram for decaf::lang::Exception:

Public Member Functions

- **Exception** () throw ()
Default Constructor.
- **Exception** (const **Exception** &ex) throw ()
Copy Constructor.
- **Exception** (const std::exception ***cause**) throw ()
Constructor.
- **Exception** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **Exception** (const char *file, const int lineNumber, const std::exception ***cause**, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual ~**Exception** () throw ()
- virtual std::string **getMessage** () const
Gets the message for this exception.
- virtual const std::exception * **getCause** () const
*Gets the exception that caused this one to be thrown, this allows for chaining of **exceptions** (p. 104) in the case of a method that throws only a particular exception but wishes to allow for the real causal exception to be passed only in case the caller knows about that type of exception and wishes to respond to it.*
- virtual void **initCause** (const std::exception ***cause**)
Initializes the contained cause exception with the one given.
- virtual const char * **what** () const throw ()
Implement method from std::exception.
- virtual void **setMessage** (const char *msg,...)
Sets the cause for this exception.
- virtual void **setMark** (const char *file, const int lineNumber)
Adds a file/line number to the stack trace.
- virtual **Exception** * **clone** () const
Clones this exception.

- virtual `std::vector< std::pair< std::string, int > > getStackTrace () const`
Provides the stack trace for every point where this exception was caught, marked, and rethrown.
- virtual void `printStackTrace () const`
Prints the stack trace to `std::err`.
- virtual void `printStackTrace (std::ostream &stream) const`
Prints the stack trace to the given output stream.
- virtual `std::string getStackTraceString () const`
Gets the stack trace as one contiguous string.
- virtual `Exception & operator= (const Exception &ex)`
Assignment operator.

Protected Member Functions

- virtual void `setStackTrace (const std::vector< std::pair< std::string, int > > &trace)`
- virtual void `buildMessage (const char *format, va_list &args)`

Protected Attributes

- `std::string message`
The cause of this exception.
- `std::exception * cause`
*The **Exception** (p. 1268) that caused this one to be thrown.*
- `std::vector< std::pair< std::string, int > > stackTrace`
The stack trace.

6.236.1 Constructor & Destructor Documentation

6.236.1.1 decaf::lang::Exception::Exception () throw ()

Default Constructor.

Referenced by `decaf::util::concurrent::BrokenBarrierException::BrokenBarrierException()`,
`decaf::util::concurrent::CancellationException::CancellationException()`,
`decaf::util::concurrent::ExecutionException::ExecutionException()`,
`decaf::net::HttpRetryException::HttpRetryException()`, `decaf::net::MalformedURLException::MalformedURLException()`,
`decaf::net::ProtocolException::ProtocolException()`, `decaf::util::concurrent::RejectedExecutionException::RejectedExecutionException()`,
`decaf::net::SocketTimeoutException::SocketTimeoutException()`,
`decaf::util::concurrent::TimeoutException::TimeoutException()`,
`decaf::net::UnknownHostException::UnknownHostException()`, and `decaf::net::UnknownServiceException::UnknownServiceException()`.

6.236.1.2 decaf::lang::Exception::Exception (const Exception & *ex*) throw ()

Copy Constructor.

Parameters:

ex The Exception (p.1268) instance to copy.

6.236.1.3 decaf::lang::Exception::Exception (const std::exception * *cause*) throw ()

Constructor.

Parameters:

cause **Pointer** (p.2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.236.1.4 decaf::lang::Exception::Exception (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw ()

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.236.1.5 decaf::lang::Exception::Exception (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw ()

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.236.1.6 virtual decaf::lang::Exception::~~Exception () throw () [virtual]

6.236.2 Member Function Documentation

6.236.2.1 virtual void decaf::lang::Exception::buildMessage (const char * *format*, va_list & *vargs*) [protected, virtual]

Referenced by decaf::lang::exceptions::NumberFormatException::NumberFormatException().

6.236.2.2 virtual Exception* decaf::lang::Exception::clone () const [virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

Copy of this **Exception** (p.1268) object

Implements decaf::lang::Throwable (p.2556).

Reimplemented in **activemq::exceptions::ActiveMQException** (p.253), **activemq::exceptions::BrokerException** (p.590), **decaf::io::EOFException** (p.1267), **decaf::io::InterruptedIOException** (p.1464), **decaf::io::IOException** (p.1479), **decaf::io::UTFDataFormatException** (p.2685), **decaf::lang::exceptions::ClassCastException** (p.837), **decaf::lang::exceptions::IllegalArgumentException** (p.1395), **decaf::lang::exceptions::IllegalMonitorStateException** (p.1398), **decaf::lang::exceptions::IllegalStateException** (p.1402), **decaf::lang::exceptions::IndexOutOfBoundsException** (p.1405), **decaf::lang::exceptions::InterruptedException** (p.1461), **decaf::lang::exceptions::InvalidStateException** (p.1476), **decaf::lang::exceptions::NoSuchElementException** (p.1947), **decaf::lang::exceptions::NullPointerException** (p.1953), **decaf::lang::exceptions::NumberFormatException** (p.1959), **decaf::lang::exceptions::RuntimeException** (p.2261), **decaf::lang::exceptions::UnsupportedOperationException** (p.2637), **decaf::net::BindException** (p.565), **decaf::net::ConnectException** (p.940), **decaf::net::HttpRetryException** (p.1392), **decaf::net::MalformedURLException** (p.1688), **decaf::net::NoRouteToHostException** (p.1941), **decaf::net::PortUnreachableException** (p.2039), **decaf::net::ProtocolException** (p.2152), **decaf::net::SocketException** (p.2380), **decaf::net::SocketTimeoutException** (p.2397), **decaf::net::UnknownHostException** (p.2631), **decaf::net::UnknownServiceException** (p.2634), **decaf::net::URISyntaxException** (p.2667), **decaf::nio::BufferOverflowException** (p.660), **decaf::nio::BufferUnderflowException** (p.663), **decaf::nio::InvalidMarkException** (p.1472), **decaf::nio::ReadOnlyBufferException** (p.2169), **decaf::util::concurrent::BrokenBarrierException** (p.585), **decaf::util::concurrent::CancellationException** (p.786), **decaf::util::concurrent::ExecutionException** (p.1293), **decaf::util::concurrent::RejectedExecutionException** (p.2176), and **decaf::util::concurrent::TimeoutException** (p.2561).

6.236.2.3 `virtual const std::exception* decaf::lang::Exception::getCause () const`
[inline, virtual]

Gets the exception that caused this one to be thrown, this allows for chaining of **exceptions** (p.104) in the case of a method that throws only a particular exception but wishes to allow for the real causal exception to be passed only in case the caller knows about that type of exception and wishes to respond to it.

Returns:

a const pointer reference to the causal exception, if there was no cause associated with this exception then NULL is returned.

Implements **decaf::lang::Throwable** (p.2557).

6.236.2.4 `virtual std::string decaf::lang::Exception::getMessage () const` [inline, virtual]

Gets the message for this exception.

Returns:

Text formatted error message

Implements **decaf::lang::Throwable** (p.2557).

6.236.2.5 `virtual std::vector< std::pair< std::string, int> > decaf::lang::Exception::getStackTrace () const` [virtual]

Provides the stack trace for every point where this exception was caught, marked, and rethrown. The first item in the returned vector is the first point where the mark was set (e.g. where the exception was created).

Returns:

the stack trace.

Implements **decaf::lang::Throwable** (p.2557).

6.236.2.6 `virtual std::string decaf::lang::Exception::getStackTraceString () const`
[virtual]

Gets the stack trace as one contiguous string.

Returns:

string with formatted stack trace data

Implements **decaf::lang::Throwable** (p.2557).

6.236.2.7 `virtual void decaf::lang::Exception::initCause (const std::exception * cause)` [virtual]

Initializes the contained cause exception with the one given. A copy is made to avoid ownership issues.

Parameters:

cause The exception that was the cause of this one.

Implements **decaf::lang::Throwable** (p. 2558).

6.236.2.8 virtual Exception& decaf::lang::Exception::operator= (const Exception & *ex*) [virtual]

Assignment operator.

Parameters:

ex const reference to another **Exception** (p. 1268)

6.236.2.9 virtual void decaf::lang::Exception::printStackTrace (std::ostream & *stream*) const [virtual]

Prints the stack trace to the given output stream.

Parameters:

stream the target output stream.

Implements **decaf::lang::Throwable** (p. 2558).

6.236.2.10 virtual void decaf::lang::Exception::printStackTrace () const [virtual]

Prints the stack trace to std::err.

Implements **decaf::lang::Throwable** (p. 2558).

6.236.2.11 virtual void decaf::lang::Exception::setMark (const char * *file*, const int *lineNumber*) [virtual]

Adds a file/line number to the stack trace.

Parameters:

file The name of the file calling this method (use `__FILE__`).

lineNumber The line number in the calling file (use `__LINE__`).

Implements **decaf::lang::Throwable** (p. 2558).

Referenced by `activemq::exceptions::BrokerException::BrokerException()`, and `decaf::lang::exceptions::NumberFormatException::NumberFormatException()`.

6.236.2.12 virtual void decaf::lang::Exception::setMessage (const char * *msg*, ...) [virtual]

Sets the cause for this exception.

Parameters:

msg the format string for the msg.
... params to format into the string

Referenced by `activemq::exceptions::BrokerException::BrokerException()`.

6.236.2.13 `virtual void decaf::lang::Exception::setStackTrace (const std::vector< std::pair< std::string, int > > & trace) [protected, virtual]`

6.236.2.14 `virtual const char* decaf::lang::Exception::what () const throw () [inline, virtual]`

Implement method from `std::exception`.

Returns:

the const char* of `getMessage()` (p. 1272).

6.236.3 Field Documentation

6.236.3.1 `std::exception* decaf::lang::Exception::cause [protected]`

The **Exception** (p. 1268) that caused this one to be thrown.

6.236.3.2 `std::string decaf::lang::Exception::message [protected]`

The cause of this exception.

6.236.3.3 `std::vector< std::pair< std::string, int> > decaf::lang::Exception::stackTrace [protected]`

The stack trace.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Exception.h`

6.237 cms::ExceptionListener Class Reference

If a CMS provider detects a serious problem, it notifies the client application through an `ExceptionListener` (p.1275) that is registered with the `Connection` (p.941).

```
#include <src/main/cms/ExceptionListener.h>
```

Public Member Functions

- virtual `~ExceptionListener ()`
- virtual void `onException (const cms::CMSException &ex)=0`
Called when an exception occurs.

6.237.1 Detailed Description

If a CMS provider detects a serious problem, it notifies the client application through an `ExceptionListener` (p.1275) that is registered with the `Connection` (p.941). An exception listener allows a client to be notified of a problem asynchronously. Some connections only consume messages via the asynchronous event mechanism so they would have no other way to learn that their connection has failed.

Since:

1.0

6.237.2 Constructor & Destructor Documentation

6.237.2.1 virtual `cms::ExceptionListener::~ExceptionListener ()` [inline, virtual]

6.237.3 Member Function Documentation

6.237.3.1 virtual void `cms::ExceptionListener::onException (const cms::CMSException & ex)` [pure virtual]

Called when an exception occurs. Once notified of an exception the caller should no longer use the resource that generated the exception.

Parameters:

ex Exception Object that occurred.

The documentation for this class was generated from the following file:

- `src/main/cms/ExceptionListener.h`

6.238 activemq::commands::ExceptionResponse Class Reference

#include <src/main/activemq/commands/ExceptionResponse.h> Inheritance diagram for activemq::commands::ExceptionResponse:

Public Member Functions

- **ExceptionResponse** ()
- virtual **~ExceptionResponse** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ExceptionResponse * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **BrokerError** > & **getException** () const
- virtual **Pointer**< **BrokerError** > & **getException** ()
- virtual void **setException** (const **Pointer**< **BrokerError** > &exception)

Static Public Attributes

- static const unsigned char **ID_EXCEPTIONRESPONSE** = 31

Protected Member Functions

- **ExceptionResponse** (const **ExceptionResponse** &)
- **ExceptionResponse** & **operator=** (const **ExceptionResponse** &)

Protected Attributes

- **Pointer**< **BrokerError** > **exception**

6.238.1 Constructor & Destructor Documentation

6.238.1.1 `activemq::commands::ExceptionResponse::ExceptionResponse (const ExceptionResponse &) [inline, protected]`

6.238.1.2 `activemq::commands::ExceptionResponse::ExceptionResponse ()`

6.238.1.3 `virtual activemq::commands::ExceptionResponse::~~ExceptionResponse () [virtual]`

6.238.2 Member Function Documentation

6.238.2.1 `virtual ExceptionResponse* activemq::commands::ExceptionResponse::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::Response` (p. 2232).

6.238.2.2 `virtual void activemq::commands::ExceptionResponse::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::Response` (p. 2232).

6.238.2.3 `virtual bool activemq::commands::ExceptionResponse::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

Reimplemented from `activemq::commands::Response` (p. 2232).

6.238.2.4 `virtual unsigned char activemq::commands::ExceptionResponse::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from **activemq::commands::Response** (p. 2233).

- 6.238.2.5** `virtual Pointer<BrokerError>& activemq::commands::ExceptionResponse::getException ()` [virtual]
- 6.238.2.6** `virtual const Pointer<BrokerError>& activemq::commands::ExceptionResponse::getException ()` const [virtual]
- 6.238.2.7** `ExceptionResponse& activemq::commands::ExceptionResponse::operator= (const ExceptionResponse &)` [inline, protected]

Reimplemented from **activemq::commands::Response** (p. 2233).

- 6.238.2.8** `virtual void activemq::commands::ExceptionResponse::setException (const Pointer< BrokerError > & exception)` [virtual]
- 6.238.2.9** `virtual std::string activemq::commands::ExceptionResponse::toString ()` const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::Response** (p. 2233).

6.238.3 Field Documentation

- 6.238.3.1** `Pointer<BrokerError> activemq::commands::ExceptionResponse::exception` [protected]
- 6.238.3.2** `const unsigned char activemq::commands::ExceptionResponse::ID _ - EXCEPTIONRESPONSE = 31` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ExceptionResponse.h`

6.239 activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1279).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ExceptionResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller:

Public Member Functions

- **ExceptionResponseMarshaller** ()
- virtual **~ExceptionResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.239.1 Detailed Description

Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1279). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.239.2 Constructor & Destructor Documentation

6.239.2.1 `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::ExceptionResponseMarshaller()` [inline]

6.239.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::~ExceptionResponseMarshaller()` [inline, virtual]

6.239.3 Member Function Documentation

6.239.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.239.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.239.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.239.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.239.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.239.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2249).

6.239.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2250).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ExceptionResponseMarshaller.h

6.240 activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p.1283).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ExceptionResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller:

Public Member Functions

- **ExceptionResponseMarshaller** ()
- virtual **~ExceptionResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.240.1 Detailed Description

Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p.1283). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.240.2 Constructor & Destructor Documentation

6.240.2.1 `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::ExceptionResponseMarshaller()` [inline]

6.240.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::~ExceptionResponseMarshaller()` [inline, virtual]

6.240.3 Member Function Documentation

6.240.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.240.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.240.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.240.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2253).

6.240.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2253).

6.240.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2254).

6.240.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2255).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/ExceptionResponseMarshaller.h

6.241 activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1287).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ExceptionResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller:

Public Member Functions

- **ExceptionResponseMarshaller** ()
- virtual **~ExceptionResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.241.1 Detailed Description

Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1287). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.241.2 Constructor & Destructor Documentation

6.241.2.1 `activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::ExceptionResponseMarshaller()` [inline]

6.241.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::~ExceptionResponseMarshaller()` [inline, virtual]

6.241.3 Member Function Documentation

6.241.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.241.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.241.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.241.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2243).

6.241.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2243).

6.241.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2244).

6.241.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2245).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ExceptionResponseMarshaller.h

6.242 decaf::util::concurrent::ExecutionException Class Reference

#include <src/main/decaf/util/concurrent/ExecutionException.h> Inheritance diagram for decaf::util::concurrent::ExecutionException:

Public Member Functions

- **ExecutionException** () throw ()
Default Constructor.
- **ExecutionException** (const **decaf::lang::Exception** &ex) throw ()
Conversion Constructor from some other Exception.
- **ExecutionException** (const **ExecutionException** &ex) throw ()
Copy Constructor.
- **ExecutionException** (const std::exception *cause) throw ()
Constructor.
- **ExecutionException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **ExecutionException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **ExecutionException** * clone () const
Clones this exception.
- virtual ~**ExecutionException** () throw ()

6.242.1 Constructor & Destructor Documentation

6.242.1.1 decaf::util::concurrent::ExecutionException::ExecutionException () throw () [inline]

Default Constructor.

6.242.1.2 decaf::util::concurrent::ExecutionException::ExecutionException (const decaf::lang::Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex - An exception that should become this type of Exception

References `decaf::lang::Exception::Exception()`.

6.242.1.3 `decaf::util::concurrent::ExecutionException::ExecutionException (const ExecutionException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex - The Exception to copy in this new instance.

References `decaf::lang::Exception::Exception()`.

6.242.1.4 `decaf::util::concurrent::ExecutionException::ExecutionException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.242.1.5 `decaf::util::concurrent::ExecutionException::ExecutionException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs

lineNumber - The line number where the exception occurred.

msg - The message to report

... - The list of primitives that are formatted into the message

6.242.1.6 `decaf::util::concurrent::ExecutionException::ExecutionException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs

lineNumber - The line number where the exception occurred.

cause - The exception that was the cause for this one to be thrown.

msg - The message to report

... - list of primitives that are formatted into the message

6.242.1.7 virtual decaf::util::concurrent::ExecutionException::~~ExecutionException
() throw () [inline, virtual]

6.242.2 Member Function Documentation

6.242.2.1 virtual ExecutionException* decaf::util::concurrent::ExecutionException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new instance of an exception that is a clone of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/**ExecutionException.h**

6.243 decaf::util::concurrent::Executor Class Reference

An object that executes submitted **decaf.lang Runnable** (p. 2256) tasks.

```
#include <src/main/decaf/util/concurrent/Executor.h>
```

Public Member Functions

- virtual **~Executor** ()
- virtual void **execute** (Runnable *command)=0 throw (decaf::util::concurrent::RejectedExecutionException, decaf::lang::exceptions::NullPointerException)

Executes the given command at some time in the future.

6.243.1 Detailed Description

An object that executes submitted **decaf.lang Runnable** (p. 2256) tasks. This interface provides a way of decoupling task submission from the mechanics of how each task will be run, including details of thread use, scheduling, etc. An **Executor** (p. 1294) is normally used instead of explicitly creating threads. For example, rather than invoking `new Thread(new RunnableTask()).start()` for each of a set of tasks, you might use:

```
Executor (p.1294) executor = anExecutor;
executor->execute( new RunnableTask1() );
executor->execute( new RunnableTask2() );
...
```

However, the **Executor** (p. 1294) interface does not strictly require that execution be asynchronous. In the simplest case, an executor can run the submitted task immediately in the caller's thread:

```
class DirectExecutor : public Executor (p.1294) {
public:

    void execute( Runnable* r ) (p.1295) {
        r->run();
    }

}
```

More typically, tasks are executed in some thread other than the caller's thread. The executor below spawns a new thread for each task.

```
class ThreadPerTaskExecutor : public Executor (p.1294) {
public:
    std::vector<Thread*gt; threads;

    void execute( Runnable* r ) (p.1295) {
        threads.push_back( new Thread( r ) );
        threads.rbegin()->start();
    }
}
```

```
}
```

The `Executor` (p. 1294) implementations provided in this package implement `decaf.util.concurrent.ExecutorService` (p. ??), which is a more extensive interface. The `decaf.util.concurrent.ThreadPoolExecutor` (p. ??) class provides an extensible thread pool implementation. The `decaf.util.concurrentExecutor` (p. ??) class provides convenient factory methods for these Executors.

Since:

1.0

6.243.2 Constructor & Destructor Documentation

6.243.2.1 `virtual decaf::util::concurrent::Executor::~~Executor ()` [inline, virtual]

6.243.3 Member Function Documentation

6.243.3.1 `virtual void decaf::util::concurrent::Executor::execute (Runnable * command) throw (decaf::util::concurrent::RejectedExecutionException, decaf::lang::exceptions::NullPointerException)` [pure virtual]

Executes the given command at some time in the future. The command may execute in a new thread, in a pooled thread, or in the calling thread, at the discretion of the `Executor` (p. 1294) implementation.

Parameters:

command the runnable task

Exceptions:

RejectedExecutionException (p. 2174) if this task cannot be accepted for execution.

NullPointerException if command is null

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/Executor.h`

6.244 activemq::transport::failover::FailoverTransport Class Reference

#include <src/main/activemq/transport/failover/FailoverTransport.h> Inheritance diagram for activemq::transport::failover::FailoverTransport:

Public Member Functions

- **FailoverTransport** ()
- virtual **~FailoverTransport** ()
- void **reconnect** ()
*Indicates that the **Transport** (p. 2608) needs to reconnect to another URI in its list.*
- void **add** (const std::string &uri)
*Adds a New URI to the List of URIs this **transport** (p. 67) can Connect to.*
- virtual void **addURI** (const List< URI > &uris)
*Add a URI to the list of URI's that will represent the set of Transports that this **Transport** (p. 2608) is a composite of.*
- virtual void **removeURI** (const List< URI > &uris)
*Remove a URI from the set of URI's that represents the set of Transports that this **Transport** (p. 2608) is composed of, removing a URI for which the composite has created a connected **Transport** (p. 2608) should result in that **Transport** (p. 2608) being disposed of.*
- virtual void **start** () throw (cms::CMSException)
*Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59).*
- virtual void **close** () throw (cms::CMSException)
Stops the polling thread and closes the streams.
- virtual void **oneway** (const Pointer< Command > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends a one-way command.
- virtual Pointer< Response > **request** (const Pointer< Command > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given command to the broker and then waits for the response.
- virtual Pointer< Response > **request** (const Pointer< Command > &command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given command to the broker and then waits for the response.
- virtual void **setWireFormat** (const Pointer< wireformat::WireFormat > &wireFormat AMQCPP_UNUSED)
Sets the WireFormat instance to use.

- virtual void **setTransportListener** (**TransportListener** *listener)
*Sets the observer of asynchronous events from this **transport** (p. 67).*
- virtual **TransportListener** * **getTransportListener** () const
*Gets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).*
- virtual bool **isFaultTolerant** () const
*Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.*
- virtual bool **isConnected** () const
*Is the **Transport** (p. 2608) Connected to its Broker.*
- virtual bool **isClosed** () const
*Has the **Transport** (p. 2608) been shutdown and no longer usable.*
- bool **isInitialized** () const
*Returns true if the **Transport** (p. 2608) has been initialized by a BrokerInfo command.*
- void **setInitialized** (bool value)
*Sets the initialized **state** (p. 65) of this **Transport** (p. 2608) to true.*
- virtual **Transport** * **narrow** (const std::type_info &typeId)
*Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.*
- virtual std::string **getRemoteAddress** () const
- virtual bool **isPending** () const
- virtual bool **iterate** ()
*Performs the actual Reconnect operation for the **FailoverTransport** (p. 1296), when a connection is made this method returns false to indicate it doesn't need to run again, otherwise it returns true to indicate its still trying to connect.*
- virtual void **reconnect** (const **decaf::net::URI** &uri) throw (**decaf::io::IOException**)
reconnect to another location
- long long **getTimeout** () const
- void **setTimeout** (long long value)
- long long **getInitialReconnectDelay** () const
- void **setInitialReconnectDelay** (long long value)
- long long **getMaxReconnectDelay** () const
- void **setMaxReconnectDelay** (long long value)
- long long **getBackOffMultiplier** () const
- void **setBackOffMultiplier** (long long value)
- bool **isUseExponentialBackOff** () const
- void **setUseExponentialBackOff** (bool value)
- bool **isRandomize** () const
- void **setRandomize** (bool value)
- int **getMaxReconnectAttempts** () const
- void **setMaxReconnectAttempts** (int value)

- long long **getReconnectDelay** () const
- void **setReconnectDelay** (long long value)
- bool **isBackup** () const
- void **setBackup** (bool value)
- int **getBackupPoolSize** () const
- void **setBackupPoolSize** (int value)
- bool **isTrackMessages** () const
- void **setTrackMessages** (bool value)
- int **getMaxCacheSize** () const
- void **setMaxCacheSize** (int value)

Protected Member Functions

- void **restoreTransport** (const **Pointer**< **Transport** > &transport) throw (decaf::io::IOException)
*Given a **Transport** (p. 2608) restore the **state** (p. 65) of the Client's connection to the Broker using the data accumulated in the State Tracker.*
- void **handleTransportFailure** (const decaf::lang::Exception &error) throw (decaf::lang::Exception)
*Called when this class' **TransportListener** (p. 2624) is notified of a Failure.*

Friends

- class **FailoverTransportListener**

6.244.1 Constructor & Destructor Documentation

6.244.1.1 **activemq::transport::failover::FailoverTransport::FailoverTransport** ()

6.244.1.2 **virtual**
activemq::transport::failover::FailoverTransport::~~FailoverTransport ()
[virtual]

6.244.2 Member Function Documentation

6.244.2.1 **void activemq::transport::failover::FailoverTransport::add** (const std::string & *uri*)

Adds a New URI to the List of URIs this **transport** (p. 67) can Connect to.

Parameters:

uri A String version of a URI to add to the URIs to **failover** (p. 69) to.

6.244.2.2 virtual void activemq::transport::failover::FailoverTransport::addURI (const List< URI > & *uris*) [virtual]

Add a URI to the list of URI's that will represent the set of Transports that this **Transport** (p. 2608) is a composite of.

Parameters:

uris The new URIs to add to the set this composite maintains.

Implements **activemq::transport::CompositeTransport** (p. 911).

6.244.2.3 virtual void activemq::transport::failover::FailoverTransport::close () throw (cms::CMSException) [virtual]

Stops the polling thread and closes the streams. This can be called explicitly, but is also called in the destructor. Once this object has been closed, it cannot be restarted.

Exceptions:

CMSException if errors occur.

Implements **cms::Closeable** (p. 838).

- 6.244.2.4 `long long activemq::transport::failover::FailoverTransport::getBackOffMultiplier () const [inline]`
- 6.244.2.5 `int activemq::transport::failover::FailoverTransport::getBackupPoolSize () const [inline]`
- 6.244.2.6 `long long activemq::transport::failover::FailoverTransport::getInitialReconnectDelay () const [inline]`
- 6.244.2.7 `int activemq::transport::failover::FailoverTransport::getMaxCacheSize () const [inline]`
- 6.244.2.8 `int activemq::transport::failover::FailoverTransport::getMaxReconnectAttempts () const [inline]`
- 6.244.2.9 `long long activemq::transport::failover::FailoverTransport::getMaxReconnectDelay () const [inline]`
- 6.244.2.10 `long long activemq::transport::failover::FailoverTransport::getReconnectDelay () const [inline]`
- 6.244.2.11 `virtual std::string activemq::transport::failover::FailoverTransport::getRemoteAddress () const [virtual]`

Returns:

the remote address for this connection

Implements `activemq::transport::Transport` (p. 2609).

- 6.244.2.12 `long long activemq::transport::failover::FailoverTransport::getTimeout () const [inline]`
- 6.244.2.13 `virtual TransportListener* activemq::transport::failover::FailoverTransport::getTransportListener () const [virtual]`

Gets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).

Returns:

The listener of **transport** (p. 67) events.

Implements `activemq::transport::Transport` (p. 2609).

6.244.2.14 `void activemq::transport::failover::FailoverTransport::handleTransportFailure (const decaf::lang::Exception & error) throw (decaf::lang::Exception) [protected]`

Called when this class' **TransportListener** (p. 2624) is notified of a Failure.

Parameters:

error - The CMS Exception that was thrown.

Exceptions:

Exception if an error occurs.

6.244.2.15 `bool activemq::transport::failover::FailoverTransport::isBackup () const [inline]`

6.244.2.16 `virtual bool activemq::transport::failover::FailoverTransport::isClosed () const [inline, virtual]`

Has the **Transport** (p. 2608) been shutdown and no longer usable.

Returns:

true if the **Transport** (p. 2608)

Implements **activemq::transport::Transport** (p. 2609).

6.244.2.17 `virtual bool activemq::transport::failover::FailoverTransport::isConnected () const [inline, virtual]`

Is the **Transport** (p. 2608) Connected to its Broker.

Returns:

true if a connection has been made.

Implements **activemq::transport::Transport** (p. 2610).

6.244.2.18 `virtual bool activemq::transport::failover::FailoverTransport::isFaultTolerant () const [inline, virtual]`

Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.

Returns:

true if the **Transport** (p. 2608) is fault tolerant.

Implements **activemq::transport::Transport** (p. 2610).

6.244.2.19 `bool activemq::transport::failover::FailoverTransport::isInitialized () const [inline]`

Returns true if the **Transport** (p. 2608) has been initialized by a BrokerInfo command.

Returns:

true if the **Transport** (p. 2608) has been initialized by a BrokerInfo command.

6.244.2.20 `virtual bool activemq::transport::failover::FailoverTransport::isPending () const [virtual]`

Returns:

true if there is a need for the iterate method to be called by this classes task runner.

Implements **activemq::threads::CompositeTask** (p. 906).

6.244.2.21 `bool activemq::transport::failover::FailoverTransport::isRandomize () const [inline]`

6.244.2.22 `bool activemq::transport::failover::FailoverTransport::isTrackMessages () const [inline]`

6.244.2.23 `bool activemq::transport::failover::FailoverTransport::isUseExponentialBackOff () const [inline]`

6.244.2.24 `virtual bool activemq::transport::failover::FailoverTransport::iterate () [virtual]`

Performs the actual Reconnect operation for the **FailoverTransport** (p. 1296), when a connection is made this method returns false to indicate it doesn't need to run again, otherwise it returns true to indicate its still trying to connect.

Returns:

false to indicate a connection, true to indicate it needs to try again.

Implements **activemq::threads::Task** (p. 2520).

6.244.2.25 `virtual Transport* activemq::transport::failover::FailoverTransport::narrow (const std::type_info & typeId) [inline, virtual]`

Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.

Parameters:

typeId - The type_info of the Object we are searching for.

Returns:

the requested Object. or NULL if its not in this chain.

Implements **activemq::transport::Transport** (p. 2610).

References **activemq::transport::Transport::narrow()**.

6.244.2.26 **virtual void activemq::transport::failover::FailoverTransport::oneway**
 (const Pointer< Command > & command)
 throw (decaf::io::IOException, de-
 caf::lang::exceptions::UnsupportedOperationException)
 [virtual]

Sends a one-way command. Does not wait for any response from the broker.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2610).

6.244.2.27 **virtual void activemq::transport::failover::FailoverTransport::reconnect**
 (const decaf::net::URI & uri) throw (decaf::io::IOException)
 [virtual]

reconnect to another location

Parameters:

uri

Exceptions:

IOException on failure of if not supported

Implements **activemq::transport::Transport** (p. 2611).

6.244.2.28 **void activemq::transport::failover::FailoverTransport::reconnect ()**

Indicates that the **Transport** (p. 2608) needs to reconnect to another URI in its list.

6.244.2.29 **virtual void activemq::transport::failover::FailoverTransport::removeURI**
 (const List< URI > & uris) [virtual]

Remove a URI from the set of URI's that represents the set of Transports that this **Transport** (p. 2608) is composed of, removing a URI for which the composite has created a connected **Transport** (p. 2608) should result in that **Transport** (p. 2608) being disposed of.

Parameters:

uris The new URIs to remove to the set this composite maintains.

Implements **activemq::transport::CompositeTransport** (p. 912).

6.244.2.30 `virtual Pointer<Response> activemq::transport::failover::FailoverTransport::request (const Pointer< Command > & command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends the given command to the broker and then waits for the response.

Parameters:

command - The command to be sent.

timeout - The time to wait for this response.

Returns:

the response from the broker.

Exceptions:

IOException if an exception occurs during the read of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2611).

6.244.2.31 `virtual Pointer<Response> activemq::transport::failover::FailoverTransport::request (const Pointer< Command > & command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends the given command to the broker and then waits for the response.

Parameters:

command the command to be sent.

Returns:

the response from the broker.

Exceptions:

IOException if an exception occurs during the read of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2612).

6.244.2.32 `void activemq::transport::failover::FailoverTransport::restoreTransport (const Pointer< Transport > & transport) throw (decaf::io::IOException) [protected]`

Given a **Transport** (p. 2608) restore the **state** (p. 65) of the Client's connection to the Broker using the data accumulated in the State Tracker.

Parameters:

transport (p. 67) The new **Transport** (p. 2608) connected to the Broker.

Exceptions:

IOException if an errors occurs while restoring the old **state** (p. 65).

6.244.2.33 void activemq::transport::failover::FailoverTransport::setBackOffMultiplier (long long *value*) [inline]

6.244.2.34 void activemq::transport::failover::FailoverTransport::setBackup (bool *value*) [inline]

6.244.2.35 void activemq::transport::failover::FailoverTransport::setBackupPoolSize (int *value*) [inline]

6.244.2.36 void activemq::transport::failover::FailoverTransport::setInitialized (bool *value*) [inline]

Sets the initialized **state** (p. 65) of this **Transport** (p. 2608) to true.

Parameters:

value - true if this **Transport** (p. 2608) has been initialized.

- 6.244.2.37 `void activemq::transport::failover::FailoverTransport::setInitialReconnectDelay (long long value) [inline]`
- 6.244.2.38 `void activemq::transport::failover::FailoverTransport::setMaxCacheSize (int value) [inline]`
- 6.244.2.39 `void activemq::transport::failover::FailoverTransport::setMaxReconnectAttempts (int value) [inline]`
- 6.244.2.40 `void activemq::transport::failover::FailoverTransport::setMaxReconnectDelay (long long value) [inline]`
- 6.244.2.41 `void activemq::transport::failover::FailoverTransport::setRandomize (bool value) [inline]`
- 6.244.2.42 `void activemq::transport::failover::FailoverTransport::setReconnectDelay (long long value) [inline]`
- 6.244.2.43 `void activemq::transport::failover::FailoverTransport::setTimeout (long long value) [inline]`
- 6.244.2.44 `void activemq::transport::failover::FailoverTransport::setTrackMessages (bool value) [inline]`
- 6.244.2.45 `virtual void activemq::transport::failover::FailoverTransport::setTransportListener (TransportListener * listener) [virtual]`

Sets the observer of asynchronous events from this **transport** (p. 67).

Parameters:

listener the listener of **transport** (p. 67) events.

Implements **activemq::transport::Transport** (p. 2612).

- 6.244.2.46 `void activemq::transport::failover::FailoverTransport::setUseExponentialBackOff (bool value) [inline]`
- 6.244.2.47 `virtual void activemq::transport::failover::FailoverTransport::setWireFormat (const Pointer< wireformat::WireFormat > &wireFormat AMQCPP_UNUSED) [inline, virtual]`

Sets the WireFormat instance to use.

Parameters:

wireFormat The WireFormat the object used to encode / decode **commands** (p. 59).

6.244.2.48 virtual void activemq::transport::failover::FailoverTransport::start () throw (cms::CMSException) [virtual]

Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59). If this object has been closed, throws an exception. Before calling start, the caller must set the IO streams and the reader and writer objects.

Exceptions:

CMSException if an error occurs or if this **transport** (p. 67) has already been closed.

Implements **cms::Startable** (p. 2413).

6.244.3 Friends And Related Function Documentation

6.244.3.1 friend class FailoverTransportListener [friend]

The documentation for this class was generated from the following file:

- src/main/activemq/transport/failover/**FailoverTransport.h**

6.245 activemq::transport::failover::FailoverTransportFactory Class Reference

Creates an instance of a **FailoverTransport** (p.1296).

#include <src/main/activemq/transport/failover/FailoverTransportFactory.h> Inheritance diagram for activemq::transport::failover::FailoverTransportFactory:

Public Member Functions

- virtual **~FailoverTransportFactory** ()
- virtual **Pointer< Transport > create** (const **decaf::net::URI** &location) throw (exceptions::ActiveMQException)

*Creates a fully configured **Transport** (p.2608) instance which could be a chain of filters and transports.*

- virtual **Pointer< Transport > createComposite** (const **decaf::net::URI** &location) throw (exceptions::ActiveMQException)

*Creates a slimmed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.*

Protected Member Functions

- virtual **Pointer< Transport > doCreateComposite** (const **decaf::net::URI** &location, const **decaf::util::Properties** &properties) throw (exceptions::ActiveMQException)

*Creates a slimmed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.*

6.245.1 Detailed Description

Creates an instance of a **FailoverTransport** (p.1296).

Since:

3.0

6.245.2 Constructor & Destructor Documentation

6.245.2.1 virtual
 activemq::transport::failover::FailoverTransportFactory::~FailoverTransportFactory
 () [inline, virtual]

6.245.3 Member Function Documentation

6.245.3.1 virtual Pointer<Transport> ac-
 tivemq::transport::failover::FailoverTransportFactory::create (const
 decaf::net::URI & *location*) throw (exceptions::ActiveMQException)
 [virtual]

Creates a fully configured **Transport** (p.2608) instance which could be a chain of filters and transports.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implements **activemq::transport::TransportFactory** (p.2614).

6.245.3.2 virtual Pointer<Transport> ac-
 tivemq::transport::failover::FailoverTransportFactory::createComposite
 (const decaf::net::URI & *location*) throw (excep-
 tions::ActiveMQException) [virtual]

Creates a slimed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implements **activemq::transport::TransportFactory** (p.2615).

6.245.3.3 virtual Pointer<Transport> ac-
 tivemq::transport::failover::FailoverTransportFactory::doCreateComposite
 (const decaf::net::URI & *location*, const decaf::util::Properties &
properties) throw (exceptions::ActiveMQException) [protected,
 virtual]

Creates a slimed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.

Parameters:

location - URI location to connect to.

properties - Properties to apply to the **transport** (p. 67).

Returns:

Pointer to a new **FailoverTransport** (p. 1296) instance.

Exceptions:

ActiveMQException if an error occurs

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/failover/FailoverTransportFactory.h`

6.246 activemq::transport::failover::FailoverTransportListener Class Reference

Utility class used by the **Transport** (p.2608) to perform the work of responding to events from the active **Transport** (p.2608).

#include <src/main/activemq/transport/failover/FailoverTransportListener.h> Inheritance diagram for activemq::transport::failover::FailoverTransportListener:

Public Member Functions

- **FailoverTransportListener** (**FailoverTransport** *parent)
- virtual ~**FailoverTransportListener** ()
- virtual void **onCommand** (const **Pointer**< **Command** > &command)

Event handler for the receipt of a command.

- virtual void **onException** (const **decaf::lang::Exception** &ex)

*Event handler for an exception from a command **transport** (p.67).*

- virtual void **transportInterrupted** ()

*The **transport** (p.67) has suffered an interruption from which it hopes to recover.*

- virtual void **transportResumed** ()

*The **transport** (p.67) has resumed after an interruption.*

6.246.1 Detailed Description

Utility class used by the **Transport** (p.2608) to perform the work of responding to events from the active **Transport** (p.2608).

Since:

3.0

6.246.2 Constructor & Destructor Documentation

6.246.2.1 `activemq::transport::failover::FailoverTransportListener::FailoverTransportListener (FailoverTransport * parent)`

6.246.2.2 `virtual
activemq::transport::failover::FailoverTransportListener::~~FailoverTransportListener
() [virtual]`

6.246.3 Member Function Documentation

6.246.3.1 `virtual void ac-
tivemq::transport::failover::FailoverTransportListener::onCommand
(const Pointer< Command > & command) [virtual]`

Event handler for the receipt of a command. The **transport** (p. 67) passes off all received **commands** (p. 59) to its listeners, the listener then owns the Object. If there is no registered listener the **Transport** (p. 2608) deletes the command upon receipt.

Parameters:

command the received command object.

Implements `activemq::transport::TransportListener` (p. 2624).

6.246.3.2 `virtual void ac-
tivemq::transport::failover::FailoverTransportListener::onException
(const decaf::lang::Exception & ex) [virtual]`

Event handler for an exception from a command **transport** (p. 67).

Parameters:

ex The exception.

Implements `activemq::transport::TransportListener` (p. 2625).

6.246.3.3 `virtual void ac-
tivemq::transport::failover::FailoverTransportListener::transportInterrupted
() [virtual]`

The **transport** (p. 67) has suffered an interruption from which it hopes to recover.

Implements `activemq::transport::TransportListener` (p. 2625).

6.246.3.4 `virtual void ac-
tivemq::transport::failover::FailoverTransportListener::transportResumed
() [virtual]`

The **transport** (p. 67) has resumed after an interruption.

Implements `activemq::transport::TransportListener` (p. 2625).

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/failover/FailoverTransportListener.h`

6.247 decaf::util::logging::Filter Class Reference

A **Filter** (p. 1314) can be used to provide fine grain control over what is logged, beyond the control provided by log levels.

```
#include <src/main/decaf/util/logging/Filter.h>
```

Public Member Functions

- virtual **~Filter** ()
- virtual bool **isLoggable** (const **LogRecord** &record) const =0

Check if a given log record should be published.

6.247.1 Detailed Description

A **Filter** (p.1314) can be used to provide fine grain control over what is logged, beyond the control provided by log levels. Each **Logger** (p.1623) and each **Handler** (p.1382) can have a filter associated with it. The **Logger** (p.1623) or **Handler** (p.1382) will call the **isLoggable** method to check if a given **LogRecord** (p.1645) should be published. If **isLoggable** returns false, the **LogRecord** (p.1645) will be discarded.

6.247.2 Constructor & Destructor Documentation

6.247.2.1 virtual decaf::util::logging::Filter::~Filter () [inline, virtual]

6.247.3 Member Function Documentation

6.247.3.1 virtual bool decaf::util::logging::Filter::isLoggable (const **LogRecord** &*record*) const [pure virtual]

Check if a given log record should be published.

Parameters:

record the **LogRecord** (p.1645) to check.

Returns:

true if the record is loggable.

The documentation for this class was generated from the following file:

- src/main/decaf/util/logging/**Filter.h**

6.248 decaf::io::FilterInputStream Class Reference

A **FilterInputStream** (p.1315) contains some other input stream, which it uses as its basic source of data, possibly transforming the data along the way or providing additional functionality.

#include <src/main/decaf/io/FilterInputStream.h> Inheritance diagram for decaf::io::FilterInputStream:

Public Member Functions

- **FilterInputStream** (**InputStream** *inputStream, bool own=false)
*Constructor to create a wrapped **InputStream** (p. 1406).*
- virtual ~**FilterInputStream** ()
- virtual std::size_t **available** () const throw (**IOException**)
Returns the number of bytes that can be read from this input stream without blocking.
- virtual unsigned char **read** () throw (**IOException**)
Reads the next byte of data from this input stream.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize) throw (**IOException**, lang::exceptions::NullPointerException)
Reads up to len bytes of data from this input stream into an array of bytes.
- virtual void **close** () throw (lang::Exception)
*Close the Stream, the **FilterOutputStream** (p. 1322) simply calls the close method of the underlying stream.*
- virtual std::size_t **skip** (std::size_t num) throw (**io::IOException**, lang::exceptions::UnsupportedOperationException)
Skips over and discards n bytes of data from this input stream.
- virtual void **mark** (int readLimit)
Marks the current position in the stream A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes.
- virtual void **reset** () throw (**IOException**)
Repositions this stream to the position at the time the mark method was last called on this input stream.
- virtual bool **markSupported** () const
Determines if this input stream supports the mark and reset methods.
- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.

- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

Protected Member Functions

- virtual bool **isClosed** () const

Protected Attributes

- **InputStream * inputStream**
- **util::concurrent::Mutex mutex**
- bool **own**
- volatile bool **closed**

6.248.1 Detailed Description

A **FilterInputStream** (p.1315) contains some other input stream, which it uses as its basic source of data, possibly transforming the data along the way or providing additional functionality. The class **FilterInputStream** (p.1315) itself simply overrides all methods of **InputStream** (p.1406) with versions that pass all requests to the contained input stream. Subclasses of **FilterInputStream** (p.1315) may further override some of these methods and may also provide additional methods and fields.

6.248.2 Constructor & Destructor Documentation

6.248.2.1 decaf::io::FilterInputStream::FilterInputStream (InputStream * *inputStream*, bool *own* = false) [inline]

Constructor to create a wrapped **InputStream** (p.1406).

Parameters:

- inputStream* the stream to wrap and filter
- own* indicates if we own the stream object, defaults to false

6.248.2.2 virtual decaf::io::FilterInputStream::~FilterInputStream () [inline, virtual]

References DECAF_CATCH_NOTHROW, and DECAF_CATCHALL_NOTHROW.

6.248.3 Member Function Documentation

6.248.3.1 virtual std::size_t decaf::io::FilterInputStream::available () const throw (IOException) [inline, virtual]

Returns the number of bytes that can be read from this input stream without blocking. This method simply performs in.available() and returns the result.

Returns:

the number of bytes available without blocking.

Implements **decaf::io::InputStream** (p. 1407).

Reimplemented in **decaf::io::BufferedInputStream** (p. 634).

References DECAF_CATCH_RETHROW, and DECAF_CATCHALL_THROW.

6.248.3.2 virtual void decaf::io::FilterInputStream::close () throw (lang::Exception) [inline, virtual]

Close the Stream, the **FilterOutputStream** (p. 1322) simply calls the close method of the underlying stream.

Exceptions:

Exception

Implements **decaf::io::Closeable** (p. 840).

Reimplemented in **decaf::io::BufferedInputStream** (p. 635).

References DECAF_CATCH_RETHROW, and DECAF_CATCHALL_THROW.

6.248.3.3 virtual bool decaf::io::FilterInputStream::isClosed () const [inline, protected, virtual]

Returns:

true if this stream has been closed.

6.248.3.4 virtual void decaf::io::FilterInputStream::lock () throw (lang::Exception) [inline, virtual]

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.248.3.5 **virtual void decaf::io::FilterInputStream::mark (int readLimit) [inline, virtual]**

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes. If a stream instance reports that marks are supported then the stream will ensure that the same bytes can be read again after the reset method is called so long the readLimit is not reached.

Parameters:

readLimit The max bytes read before marked position is invalid.

Implements **decaf::io::InputStream** (p. 1407).

Reimplemented in **decaf::io::BufferedInputStream** (p. 635).

References DECAF_CATCHALL_NOTHROW.

6.248.3.6 **virtual bool decaf::io::FilterInputStream::markSupported () const [inline, virtual]**

Determines if this input stream supports the mark and reset methods. Whether or not mark and reset are supported is an invariant property of a particular input stream instance.

Returns:

true if this stream instance supports marks

Implements **decaf::io::InputStream** (p. 1407).

Reimplemented in **decaf::io::BufferedInputStream** (p. 635).

References DECAF_CATCHALL_NOTHROW.

6.248.3.7 **virtual void decaf::io::FilterInputStream::notify () throw (lang::Exception) [inline, virtual]**

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.248.3.8 **virtual void decaf::io::FilterInputStream::notifyAll () throw (lang::Exception) [inline, virtual]**

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.248.3.9 `virtual int decaf::io::FilterInputStream::read (unsigned char * buffer,
std::size_t offset, std::size_t bufferSize) throw (IOException,
lang::exceptions::NullPointerException) [inline, virtual]`

Reads up to len bytes of data from this input stream into an array of bytes. This method blocks until some input is available. This method simply performs `in.read(b, len)` and returns the result.

Parameters:

buffer (out) the target buffer.

offset the position to start reading in the passed buffer.

bufferSize the size of the output buffer.

Returns:

The number of bytes read or -1 if EOF is detected

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException

Implements **decaf::io::InputStream** (p. 1408).

Reimplemented in **activemq::io::LoggingInputStream** (p. 1633), **decaf::io::BufferedInputStream** (p. 635), and **decaf::io::DataInputStream** (p. 1118).

References `DECAF_CATCH_RETHROW`, and `DECAF_CATCHALL_THROW`.

6.248.3.10 `virtual unsigned char decaf::io::FilterInputStream::read () throw (IOException) [inline, virtual]`

Reads the next byte of data from this input stream. The value byte is returned as an unsigned char in the range 0 to 255. If no byte is available because the end of the stream has been reached, the value -1 is returned. This method blocks until input data is available, the end of the stream is detected, or an exception is thrown. This method simply performs `in.read()` and returns the result.

Returns:

The next byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implements **decaf::io::InputStream** (p. 1408).

Reimplemented in **activemq::io::LoggingInputStream** (p. 1634), and **decaf::io::BufferedInputStream** (p. 636).

References `DECAF_CATCH_RETHROW`, and `DECAF_CATCHALL_THROW`.

6.248.3.11 `virtual void decaf::io::FilterInputStream::reset () throw (IOException)` [inline, virtual]

Repositions this stream to the position at the time the mark method was last called on this input stream. If the method markSupported returns true, then: * If the method mark has not been called since the stream was created, or the number of bytes read from the stream since mark was last called is larger than the argument to mark at that last call, then an **IOException** (p. 1477) might be thrown. * If such an **IOException** (p. 1477) is not thrown, then the stream is reset to a state such that all the bytes read since the most recent call to mark (or since the start of the file, if mark has not been called) will be resupplied to subsequent callers of the read method, followed by any bytes that otherwise would have been the next input data as of the time of the call to reset. If the method markSupported returns false, then: * The call to reset may throw an **IOException** (p. 1477). * If an **IOException** (p. 1477) is not thrown, then the stream is reset to a fixed state that depends on the particular type of the input stream and how it was created. The bytes that will be supplied to subsequent callers of the read method depend on the particular type of the input stream.

Exceptions:

IOException (p. 1477)

Implements **decaf::io::InputStream** (p. 1408).

Reimplemented in **decaf::io::BufferedInputStream** (p. 636).

References DECAF_CATCH_RETHROW, and DECAF_CATCHALL_THROW.

6.248.3.12 `virtual std::size_t decaf::io::FilterInputStream::skip` (`std::size_t num`) `throw (io::IOException,` `lang::exceptions::UnsupportedOperationException)` [inline, virtual]

Skips over and discards n bytes of data from this input stream. The skip method may, for a variety of reasons, end up skipping over some smaller number of bytes, possibly 0. This may result from any of a number of conditions; reaching end of file before n bytes have been skipped is only one possibility. The actual number of bytes skipped is returned. If n is negative, no bytes are skipped.

The skip method of **InputStream** (p. 1406) creates a byte array and then repeatedly reads into it until n bytes have been read or the end of the stream has been reached. Subclasses are encouraged to provide a more efficient implementation of this method.

Parameters:

num - the number of bytes to skip

Returns:

total bytes skipped

Exceptions:

IOException (p. 1477) if an error occurs

Implements **decaf::io::InputStream** (p. 1409).

Reimplemented in **decaf::io::BufferedInputStream** (p. 636), and **decaf::io::DataInputStream** (p. 1124).

References DECAF_CATCH_RETHROW, and DECAF_CATCHALL_THROW.

6.248.3.13 virtual void decaf::io::FilterInputStream::unlock () throw (lang::Exception) [inline, virtual]

Unlocks the object.

Exceptions:

Exception

Implements decaf::util::concurrent::Synchronizable (p. 2512).

6.248.3.14 virtual void decaf::io::FilterInputStream::wait (unsigned long *milliseconds*) throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements decaf::util::concurrent::Synchronizable (p. 2513).

6.248.3.15 virtual void decaf::io::FilterInputStream::wait () throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements decaf::util::concurrent::Synchronizable (p. 2514).

6.248.4 Field Documentation

6.248.4.1 volatile bool decaf::io::FilterInputStream::closed [protected]

6.248.4.2 InputStream* decaf::io::FilterInputStream::inputStream [protected]

6.248.4.3 util::concurrent::Mutex decaf::io::FilterInputStream::mutex [protected]

6.248.4.4 bool decaf::io::FilterInputStream::own [protected]

The documentation for this class was generated from the following file:

- src/main/decaf/io/FilterInputStream.h

6.249 decaf::io::FilterOutputStream Class Reference

This class is the superclass of all classes that filter output streams.

#include <src/main/decaf/io/FilterOutputStream.h> Inheritance diagram for decaf::io::FilterOutputStream:

Public Member Functions

- **FilterOutputStream** (**OutputStream** *outputStream, bool own=false)
Constructor, creates a wrapped output stream.
- virtual ~**FilterOutputStream** ()
- virtual void **write** (unsigned char c) throw (**IOException**)
Writes a single byte to the output stream.
- virtual void **write** (const std::vector< unsigned char > &buffer) throw (**IOException**)
Writes an array of bytes to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset **DECAF_UNUSED**, std::size_t len) throw (**IOException**, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **flush** () throw (**IOException**)
Flushes any pending writes in this output stream.
- virtual void **close** () throw (lang::Exception)
Close the Stream.
- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

Protected Member Functions

- virtual bool **isClosed** () const

Protected Attributes

- **OutputStream * outputStream**
- **util::concurrent::Mutex mutex**
- bool **own**
- volatile bool **closed**

6.249.1 Detailed Description

This class is the superclass of all classes that filter output streams. These streams sit on top of an already existing output stream (the underlying output stream) which it uses as its basic sink of data, but possibly transforming the data along the way or providing additional functionality.

The class **FilterOutputStream** (p. 1322) itself simply overrides all methods of **OutputStream** (p. 1992) with versions that pass all requests to the underlying output stream. Subclasses of **FilterOutputStream** (p. 1322) may further override some of these methods as well as provide additional methods and fields.

Due to the lack of garbage collection in C++ a design decision was made to add a boolean parameter to the constructor indicating if the wrapped **InputStream** (p. 1406) is owned by this object. That way creation of the underlying stream can occur in a Java like way. Ex:

```
DataOutputStream (p. 1125) os = new DataOutputStream (p. 1125)( new OutputStream(),
true )
```

6.249.2 Constructor & Destructor Documentation

6.249.2.1 decaf::io::FilterOutputStream::FilterOutputStream (OutputStream * *outputStream*, bool *own* = false) [inline]

Constructor, creates a wrapped output stream.

Parameters:

outputStream the **OutputStream** (p. 1992) to wrap

own If true, this object will control the lifetime of the output stream that it encapsulates.

6.249.2.2 virtual decaf::io::FilterOutputStream::~~FilterOutputStream () [inline, virtual]

References **DECAF_CATCH_NOTHROW**, and **DECAF_CATCHALL_NOTHROW**.

6.249.3 Member Function Documentation

6.249.3.1 virtual void decaf::io::FilterOutputStream::close () throw (lang::Exception) [inline, virtual]

Close the Stream. The close method of **FilterOutputStream** (p.1322) calls its flush method, and then calls the close method of its underlying output stream, it then destroys the output stream if it is the owner.

Exceptions:

Exception

Implements **decaf::io::Closeable** (p. 840).

Reimplemented in **decaf::io::BufferedOutputStream** (p. 639).

References DECAF_CATCH_RETHROW, and DECAF_CATCHALL_THROW.

6.249.3.2 virtual void decaf::io::FilterOutputStream::flush () throw (IOException) [inline, virtual]

Flushes any pending writes in this output stream. The flush method of **FilterOutputStream** (p.1322) calls the flush method of its underlying output stream

Exceptions:

IOException (p. 1477)

Implements **decaf::io::OutputStream** (p.1992).

Reimplemented in **decaf::io::BufferedOutputStream** (p. 639).

References DECAF_CATCH_RETHROW, and DECAF_CATCHALL_THROW.

6.249.3.3 virtual bool decaf::io::FilterOutputStream::isClosed () const [inline, protected, virtual]

Returns:

true if this stream has been closed.

6.249.3.4 virtual void decaf::io::FilterOutputStream::lock () throw (lang::Exception) [inline, virtual]

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.249.3.5 virtual void decaf::io::FilterOutputStream::notify () throw (lang::Exception) [inline, virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.249.3.6 virtual void decaf::io::FilterOutputStream::notifyAll () throw (lang::Exception) [inline, virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.249.3.7 virtual void decaf::io::FilterOutputStream::unlock () throw (lang::Exception) [inline, virtual]

Unlocks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

6.249.3.8 virtual void decaf::io::FilterOutputStream::wait (unsigned long *milliseconds*) throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.249.3.9 virtual void decaf::io::FilterOutputStream::wait () throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

6.249.3.10 virtual void decaf::io::FilterOutputStream::write (const unsigned char * *buffer*, std::size_t *offset* *DECAF_UNUSED*, std::size_t *len*) throw (IOException, lang::exceptions::NullPointerException) [inline, virtual]

Writes an array of bytes to the output stream. The write method of **FilterOutputStream** (p. 1322) calls the write method of one argument on each byte to output.

Parameters:

buffer The array of bytes to write.

offset, the position to start writing in buffer.

len The number of bytes from the buffer to be written.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException thrown if buffer is Null.

Implements **decaf::io::OutputStream** (p. 1993).

Reimplemented in **activemq::io::LoggingOutputStream** (p. 1635), **decaf::io::BufferedOutputStream** (p. 639), and **decaf::io::DataOutputStream** (p. 1127).

References *DECAF_CATCH_RETHROW*, and *DECAF_CATCHALL_THROW*.

6.249.3.11 virtual void decaf::io::FilterOutputStream::write (const std::vector< unsigned char > & *buffer*) throw (IOException) [inline, virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The bytes to write.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

Reimplemented in **decaf::io::BufferedOutputStream** (p. 640), and **decaf::io::DataOutputStream** (p. 1127).

References *DECAF_CATCH_RETHROW*, and *DECAF_CATCHALL_THROW*.

6.249.3.12 virtual void decaf::io::FilterOutputStream::write (unsigned char *c*) throw (IOException) [inline, virtual]

Writes a single byte to the output stream. The write method of **FilterOutputStream** (p. 1322) calls the write method of its underlying output stream, that is, it performs out.write(b).

Parameters:

c the byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

Reimplemented in **activemq::io::LoggingOutputStream** (p. 1636), **decaf::io::BufferedOutputStream** (p. 640), and **decaf::io::DataOutputStream** (p. 1127).

References DECAF_CATCH_RETHROW, and DECAF_CATCHALL_THROW.

6.249.4 Field Documentation

6.249.4.1 volatile bool decaf::io::FilterOutputStream::closed [protected]

6.249.4.2 util::concurrent::Mutex decaf::io::FilterOutputStream::mutex [protected]

6.249.4.3 OutputStream* decaf::io::FilterOutputStream::outputStream [protected]

6.249.4.4 bool decaf::io::FilterOutputStream::own [protected]

The documentation for this class was generated from the following file:

- src/main/decaf/io/**FilterOutputStream.h**

6.250 decaf::lang::Float Class Reference

#include <src/main/decaf/lang/Float.h> Inheritance diagram for decaf::lang::Float:

Public Member Functions

- **Float** (float value)
- **Float** (double value)
- **Float** (const std::string &value) throw (exceptions::NumberFormatException)
- virtual ~**Float** ()
- virtual int **compareTo** (const **Float** &f) const
*Compares this **Float** (p. 1328) instance with another.*
- bool **equals** (const **Float** &f) const
- virtual bool **operator==** (const **Float** &f) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Float** &f) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual int **compareTo** (const float &f) const
*Compares this **Float** (p. 1328) instance with another.*
- bool **equals** (const float &f) const
- virtual bool **operator==** (const float &f) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const float &f) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- std::string **toString** () const
- virtual double **doubleValue** () const
Answers the double value which the receiver represents.
- virtual float **floatValue** () const
Answers the float value which the receiver represents.
- virtual unsigned char **byteValue** () const
Answers the byte value which the receiver represents.
- virtual short **shortValue** () const
Answers the short value which the receiver represents.
- virtual int **intValue** () const
Answers the int value which the receiver represents.

- virtual long long **longValue** () const
Answers the long value which the receiver represents.
- bool **isInfinite** () const
- bool **isNaN** () const

Static Public Member Functions

- static int **compare** (float f1, float f2)
Compares the two specified double values.
- static int **floatToIntBits** (float value)
Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "single format" bit layout.
- static int **floatToRawIntBits** (float value)
Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "single format" bit layout, preserving Not-a-Number (NaN) values.
- static float **intBitsToFloat** (int bits)
Returns the float value corresponding to a given bit representation.
- static bool **isInfinite** (float value)
- static bool **isNaN** (float value)
- static float **parseFloat** (const std::string &value) throw (exceptions::NumberFormatException)
*Returns a new float initialized to the value represented by the specified string, as performed by the valueOf method of class **Float** (p. 1328).*
- static std::string **toHexString** (float value)
Returns a hexadecimal string representation of the float argument.
- static std::string **toString** (float value)
Returns a string representation of the float argument.
- static **Float** **valueOf** (float value)
*Returns a **Float** (p. 1328) instance representing the specified float value.*
- static **Float** **valueOf** (const std::string &value) throw (exceptions::NumberFormatException)
*Returns a **Float** (p. 1328) instance that wraps a primitive float which is parsed from the string value passed.*

Static Public Attributes

- static const int **SIZE** = 32
The size in bits of the primitive int type.
- static const float **MAX_VALUE**

The maximum value that the primitive type can hold.

- static const float **MIN_VALUE**

The minimum value that the primitive type can hold.

- static const float **NaN**

*Constant for the Not a **Number** (p. 1954) Value.*

- static const float **POSITIVE_INFINITY**

Constant for Positive Infinity.

- static const float **NEGATIVE_INFINITY**

Constant for Negative Infinity.

6.250.1 Constructor & Destructor Documentation

6.250.1.1 `decaf::lang::Float::Float (float value)`

Parameters:

value - the primitive type to wrap

6.250.1.2 `decaf::lang::Float::Float (double value)`

Parameters:

value - the primitive type to wrap

6.250.1.3 `decaf::lang::Float::Float (const std::string & value) throw (exceptions::NumberFormatException)`

Parameters:

value - the string to convert to a primitive type to wrap

6.250.1.4 `virtual decaf::lang::Float::~~Float () [inline, virtual]`

6.250.2 Member Function Documentation

6.250.2.1 `virtual unsigned char decaf::lang::Float::byteValue () const [inline, virtual]`

Answers the byte value which the receiver represents.

Returns:

byte the value of the receiver.

Reimplemented from `decaf::lang::Number` (p. 1954).

6.250.2.2 static int decaf::lang::Float::compare (float *f1*, float *f2*) [static]

Compares the two specified double values. The sign of the integer value returned is the same as that of the integer that would be returned by the call: `Float(f1).compareTo(Float(f2))`

Parameters:

f1 - the first double to compare

f2 - the second double to compare

Returns:

the value 0 if *d1* is numerically equal to *f2*; a value less than 0 if *f1* is numerically less than *f2*; and a value greater than 0 if *f1* is numerically greater than *f2*.

6.250.2.3 virtual int decaf::lang::Float::compareTo (const float & *f*) const [virtual]

Compares this **Float** (p. 1328) instance with another.

Parameters:

f - the **Float** (p. 1328) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

Implements **decaf::lang::Comparable**< float > (p. 899).

6.250.2.4 virtual int decaf::lang::Float::compareTo (const Float & *f*) const [virtual]

Compares this **Float** (p. 1328) instance with another.

Parameters:

f - the **Float** (p. 1328) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

6.250.2.5 virtual double decaf::lang::Float::doubleValue () const [inline, virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.250.2.6 `bool decaf::lang::Float::equals (const float & f) const` [inline, virtual]

Parameters:

f - the **Float** (p. 1328) object to compare against.

Returns:

true if the two **Float** (p. 1328) Objects have the same value.

Implements **decaf::lang::Comparable**< **float** > (p. 900).

6.250.2.7 `bool decaf::lang::Float::equals (const Float & f) const` [inline]

Parameters:

f - the **Float** (p. 1328) object to compare against.

Returns:

true if the two **Float** (p. 1328) Objects have the same value.

6.250.2.8 `static int decaf::lang::Float::floatToIntBits (float value)` [static]

Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "single format" bit layout. Bit 31 (the bit that is selected by the mask 0x80000000) represents the sign of the floating-point number. Bits 30-23 (the bits that are selected by the mask 0x7f800000) represent the exponent. Bits 22-0 (the bits that are selected by the mask 0x007fffff) represent the significand (sometimes called the mantissa) of the floating-point number.

If the argument is positive infinity, the result is 0x7f800000. If the argument is negative infinity, the result is 0xff800000. If the argument is NaN, the result is 0x7c000000.

In all cases, the result is an integer that, when given to the **intBitsToFloat(int)** (p. 1333) method, will produce a floating-point value the same as the argument to **floatToIntBits** (except all NaN values are collapsed to a single "canonical" NaN value).

Parameters:

value - the float to convert to int bits

Returns:

the int that holds the float's value

6.250.2.9 `static int decaf::lang::Float::floatToRawIntBits (float value)` [static]

Returns a representation of the specified floating-point value according to the IEEE 754 floating-point "single format" bit layout, preserving Not-a-Number (NaN) values. Bit 31 (the bit that is selected by the mask 0x80000000) represents the sign of the floating-point number. Bits 30-23 (the bits that are selected by the mask 0x7f800000) represent the exponent. Bits 22-0 (the bits that are selected by the mask 0x007fffff) represent the significand (sometimes called the mantissa) of the floating-point number.

If the argument is positive infinity, the result is 0x7f800000. If the argument is negative infinity, the result is 0xff800000. If the argument is NaN, the result is the integer representing the actual NaN value. Unlike the `floatToIntBits` method, `intToRawIntBits` does not collapse all the bit patterns encoding a NaN to a single "canonical" NaN value.

In all cases, the result is an integer that, when given to the `intBitsToFloat(int)` (p. 1333) method, will produce a floating-point value the same as the argument to `floatToRawIntBits`.

Parameters:

value The float to convert to a raw int.

Returns:

the raw int value of the float

6.250.2.10 virtual float decaf::lang::Float::floatValue () const [inline, virtual]

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.250.2.11 static float decaf::lang::Float::intBitsToFloat (int bits) [static]

Returns the float value corresponding to a given bit representation. The argument is considered to be a representation of a floating-point value according to the IEEE 754 floating-point "single format" bit layout.

If the argument is 0x7f800000, the result is positive infinity. If the argument is 0xff800000, the result is negative infinity. If the argument is any value in the range 0x7f800001 through 0x7fffffff or in the range 0xff800001 through 0xffffffff, the result is a NaN. No IEEE 754 floating-point operation provided by C++ can distinguish between two NaN values of the same type with different bit patterns. Distinct values of NaN are only distinguishable by use of the **Float::floatToRawIntBits** (p. 1332) method.

Parameters:

bits - the bits of the float encoded as a float

Returns:

a new float created from the int bits.

6.250.2.12 virtual int decaf::lang::Float::intValue () const [inline, virtual]

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.250.2.13 `static bool decaf::lang::Float::isInfinite (float value) [static]`**Parameters:**

value - The float to check.

Returns:

true if the float is equal to infinity.

6.250.2.14 `bool decaf::lang::Float::isInfinite () const`**Returns:**

true if the float is equal to positive infinity.

6.250.2.15 `static bool decaf::lang::Float::isNaN (float value) [static]`**Parameters:**

value - The float to check.

Returns:

true if the float is equal to NaN.

6.250.2.16 `bool decaf::lang::Float::isNaN () const`**Returns:**

true if the float is equal to NaN.

6.250.2.17 `virtual long long decaf::lang::Float::longValue () const [inline, virtual]`

Answers the long value which the receiver represents.

Returns:

long the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.250.2.18 `virtual bool decaf::lang::Float::operator< (const float & f) const [inline, virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

f - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable**< float > (p. 900).

6.250.2.19 **virtual bool decaf::lang::Float::operator< (const Float & f) const**
 [inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

f - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.250.2.20 **virtual bool decaf::lang::Float::operator== (const float & f) const**
 [inline, virtual]

Compares equality between this object and the one passed.

Parameters:

f - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable**< float > (p. 901).

6.250.2.21 **virtual bool decaf::lang::Float::operator== (const Float & f) const**
 [inline, virtual]

Compares equality between this object and the one passed.

Parameters:

f - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.250.2.22 **static float decaf::lang::Float::parseFloat (const std::string & value)**
 throw (exceptions::NumberFormatException) [static]

Returns a new float initialized to the value represented by the specified string, as performed by the valueOf method of class **Float** (p. 1328).

Parameters:

value - the string to parse

Returns:

a float parsed from the string

Exceptions:

NumberFormatException

6.250.2.23 `virtual short decaf::lang::Float::shortValue () const [inline, virtual]`

Answers the short value which the receiver represents.

Returns:

short the value of the receiver.

Reimplemented from `decaf::lang::Number` (p. 1956).

6.250.2.24 `static std::string decaf::lang::Float::toHexString (float value) [static]`

Returns a hexadecimal string representation of the float argument. All characters mentioned below are ASCII characters.

* If the argument is NaN, the result is the string "NaN". * Otherwise, the result is a string that represents the sign and magnitude (absolute value) of the argument. If the sign is negative, the first character of the result is '-'; if the sign is positive, no sign character appears in the result. As for the magnitude m: o If m is infinity, it is represented by the string "Infinity"; thus, positive infinity produces the result "Infinity" and negative infinity produces the result "-Infinity". o If m is zero, it is represented by the string "0x0.0p0"; thus, negative zero produces the result "-0x0.0p0" and positive zero produces the result "0x0.0p0". o If m is a float value with a normalized representation, substrings are used to represent the significand and exponent fields. The significand is represented by the characters "0x1." followed by a lowercase hexadecimal representation of the rest of the significand as a fraction. Trailing zeros in the hexadecimal representation are removed unless all the digits are zero, in which case a single zero is used. Next, the exponent is represented by "p" followed by a decimal string of the unbiased exponent as if produced by a call to **Integer.toString** (p. 1440) on the exponent value. o If m is a float value with a subnormal representation, the significand is represented by the characters "0x0." followed by a hexadecimal representation of the rest of the significand as a fraction. Trailing zeros in the hexadecimal representation are removed. Next, the exponent is represented by "p-126". Note that there must be at least one nonzero digit in a subnormal significand.

Parameters:

value - The float to convert to a string

Returns:

the Hex formatted float string.

6.250.2.25 static std::string decaf::lang::Float::toString (float *value*) [static]

Returns a string representation of the float argument. All characters mentioned below are ASCII characters.

If the argument is NaN, the result is the string "NaN". Otherwise, the result is a string that represents the sign and magnitude (absolute value) of the argument. If the sign is negative, the first character of the result is '-'; if the sign is positive, no sign character appears in the result. As for the magnitude *m*:

- o If *m* is infinity, it is represented by the characters "Infinity"; thus, positive infinity produces the result "Infinity" and negative infinity produces the result "-Infinity".
- o If *m* is zero, it is represented by the characters "0.0"; thus, negative zero produces the result "-0.0" and positive zero produces the result "0.0".
- o If *m* is greater than or equal to 10^{-3} but less than 10^7 , then it is represented as the integer part of *m*, in decimal form with no leading zeroes, followed by '.', followed by one or more decimal digits representing the fractional part of *m*.
- o If *m* is less than 10^{-3} or greater than or equal to 10^7 , then it is represented in so-called "computerized scientific notation." Let *n* be the unique integer such that $10^n \leq m < 10^{n+1}$; then let *a* be the mathematically exact quotient of *m* and 10^n so that $1 \leq a < 10$. The magnitude is then represented as the integer part of *a*, as a single decimal digit, followed by '.', followed by decimal digits representing the fractional part of *a*, followed by the letter 'E', followed by a representation of *n* as a decimal integer, as produced by the method **Integer.toString(int)** (p. 1440).

Parameters:

value - The float to convert to a string

Returns:

the formatted float string.

6.250.2.26 std::string decaf::lang::Float::toString () const**Returns:**

this **Float** (p. 1328) Object as a String Representation

6.250.2.27 static Float decaf::lang::Float::valueOf (const std::string & *value*) throw (exceptions::NumberFormatException) [static]

Returns a **Float** (p. 1328) instance that wraps a primitive float which is parsed from the string value passed.

Parameters:

value - the string to parse

Returns:

a new **Float** (p. 1328) instance wrapping the float parsed from value

Exceptions:

NumberFormatException on error.

6.250.2.28 `static Float decaf::lang::Float::valueOf (float value)` [static]

Returns a **Float** (p. 1328) instance representing the specified float value.

Parameters:

value - float to wrap

Returns:

new **Float** (p. 1328) instance wrapping the primitive value

6.250.3 **Field Documentation****6.250.3.1** `const float decaf::lang::Float::MAX_VALUE` [static]

The maximum value that the primitive type can hold.

6.250.3.2 `const float decaf::lang::Float::MIN_VALUE` [static]

The minimum value that the primitive type can hold.

6.250.3.3 `const float decaf::lang::Float::NaN` [static]

Constant for the Not a **Number** (p. 1954) Value.

6.250.3.4 `const float decaf::lang::Float::NEGATIVE_INFINITY` [static]

Constant for Negative Infinity.

6.250.3.5 `const float decaf::lang::Float::POSITIVE_INFINITY` [static]

Constant for Positive Infinity.

6.250.3.6 `const int decaf::lang::Float::SIZE = 32` [static]

The size in bits of the primitive int type.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Float.h`

6.251 decaf::internal::nio::FloatArrayBuffer Class Reference

#include <src/main/decaf/internal/nio/FloatArrayBuffer.h> Inheritance diagram for decaf::internal::nio::FloatArrayBuffer:

Public Member Functions

- **FloatArrayBuffer** (std::size_t capacity, bool readOnly=false)
*Creates a **FloatArrayBuffer** (p. 1339) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*
- **FloatArrayBuffer** (float *array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::NullPointerException)
*Creates a **FloatArrayBuffer** (p. 1339) object that wraps the given array.*
- **FloatArrayBuffer** (ByteArrayPerspective &array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
*Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset.*
- **FloatArrayBuffer** (const **FloatArrayBuffer** &other)
*Create a **FloatArrayBuffer** (p. 1339) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.*
- virtual ~**FloatArrayBuffer** ()
- virtual float * **array** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the float array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual FloatBuffer * **asReadOnlyBuffer** () const
Creates a new, read-only float buffer that shares this buffer's content.
- virtual FloatBuffer & **compact** () throw (decaf::nio::ReadOnlyBufferException)
Compacts this buffer.
- virtual FloatBuffer * **duplicate** ()
Creates a new float buffer that shares this buffer's content.
- virtual float **get** () throw (decaf::nio::BufferUnderflowException)
Relative get method.
- virtual float **get** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)

Absolute get method.

- virtual bool **hasArray** () const
Tells whether or not this buffer is backed by an accessible float array.
- virtual bool **isReadOnly** () const
Tells whether or not this buffer is read-only.
- virtual FloatBuffer & **put** (float value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the current position, and then increments the position.
- virtual FloatBuffer & **put** (std::size_t index, float value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the given index.
- virtual FloatBuffer * **slice** () const
Creates a new FloatBuffer whose content is a shared subsequence of this buffer's content.

Protected Member Functions

- virtual void **setReadOnly** (bool value)
*Sets this **ByteBuffer** (p. 694) as Read-Only.*

6.251.1 Constructor & Destructor Documentation

6.251.1.1 decaf::internal::nio::FloatArrayBuffer::FloatArrayBuffer (std::size_t capacity, bool readOnly = false)

Creates a **FloatArrayBuffer** (p. 1339) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

6.251.1.2 decaf::internal::nio::FloatArrayBuffer::FloatArrayBuffer (float * array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::NullPointerException)

Creates a **FloatArrayBuffer** (p. 1339) object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

offset - the position that is this buffers start pos.

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

Exceptions:

NullPointerException if buffer is NULL

6.251.1.3 decaf::internal::nio::FloatArrayBuffer::FloatArrayBuffer (ByteArrayPerspective & array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset. The capacity and limit of the new **FloatArrayBuffer** (p. 1339) will be that of the remaining capacity of the passed buffer.

Parameters:

array - the **ByteArrayPerspective** (p. 729) to wrap

offset - the offset into array where the buffer starts

capacity - the length of the array we are wrapping or limit.

readOnly - is this a readOnly buffer.

Exceptions:

IndexOutOfBoundsException if offset is greater than array capacity.

6.251.1.4 decaf::internal::nio::FloatArrayBuffer::FloatArrayBuffer (const FloatArrayBuffer & other)

Create a **FloatArrayBuffer** (p. 1339) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.

Parameters:

other - the **FloatArrayBuffer** (p. 1339) this one is to mirror.

6.251.1.5 virtual decaf::internal::nio::FloatArrayBuffer::~FloatArrayBuffer () [virtual]

6.251.2 Member Function Documentation

6.251.2.1 virtual float* decaf::internal::nio::FloatArrayBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException) [virtual]

Returns the float array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this Buffer

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::FloatBuffer** (p. 1348).

6.251.2.2 `virtual std::size_t decaf::internal::nio::FloatArrayBuffer::arrayOffset
() throw (decaf::lang::exceptions::UnsupportedOperationException,
decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::FloatBuffer** (p. 1349).

6.251.2.3 `virtual FloatBuffer* de-
caf::internal::nio::FloatArrayBuffer::asReadOnlyBuffer ()
const [virtual]`

Creates a new, read-only float buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only float buffer which the caller then owns.

Implements **decaf::nio::FloatBuffer** (p. 1349).

6.251.2.4 `virtual FloatBuffer& decaf::internal::nio::FloatArrayBuffer::compact ()
throw (decaf::nio::ReadOnlyBufferException) [virtual]`

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index `p` = `position()` (p. 631) is copied

to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index `limit()` (p. 631) - 1 is copied to index $n = \text{limit}() - 1 - p$. The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this FloatBuffer

Exceptions:

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::FloatBuffer** (p. 1349).

6.251.2.5 virtual FloatBuffer* decaf::internal::nio::FloatArrayBuffer::duplicate ()
[virtual]

Creates a new float buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new float Buffer which the caller owns.

Implements **decaf::nio::FloatBuffer** (p. 1350).

6.251.2.6 virtual float decaf::internal::nio::FloatArrayBuffer::get (std::size_t index)
const throw (lang::exceptions::IndexOutOfBoundsException) [virtual]

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the Buffer where the float is to be read

Returns:

the float that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::FloatBuffer** (p. 1351).

6.251.2.7 virtual float decaf::internal::nio::FloatArrayBuffer::get () throw (
decaf::nio::BufferUnderflowException) [virtual]

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the float at the current position

Exceptions:

BufferUnderflowException if there no more data to return

Implements **decaf::nio::FloatBuffer** (p.1352).

6.251.2.8 **virtual bool decaf::internal::nio::FloatArrayBuffer::hasArray () const** [inline, virtual]

Tells whether or not this buffer is backed by an accessible float array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implements **decaf::nio::FloatBuffer** (p.1352).

6.251.2.9 **virtual bool decaf::internal::nio::FloatArrayBuffer::isReadOnly () const** [inline, virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::Buffer** (p. 630).

6.251.2.10 **virtual FloatBuffer& decaf::internal::nio::FloatArrayBuffer::put** (std::size_t *index*, float *value*) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes the given doubles into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the doubles to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::FloatBuffer** (p.1353).

6.251.2.11 `virtual FloatBuffer& decaf::internal::nio::FloatArrayBuffer::put
 (float value) throw (decaf::nio::BufferOverflowException,
 decaf::nio::ReadOnlyBufferException)` [virtual]

Writes the given doubles into this buffer at the current position, and then increments the position.

Parameters:

value - the doubles value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::FloatBuffer** (p.1353).

6.251.2.12 `virtual void decaf::internal::nio::FloatArrayBuffer::setReadOnly (bool
 value)` [inline, protected, virtual]

Sets this **ByteBuffer** (p.694) as Read-Only.

Parameters:

value - true if this buffer is to be read-only.

6.251.2.13 `virtual FloatBuffer* decaf::internal::nio::FloatArrayBuffer::slice () const`
[virtual]

Creates a new **FloatBuffer** whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **FloatBuffer** which the caller owns.

Implements **decaf::nio::FloatBuffer** (p.1355).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/nio/FloatArrayBuffer.h`

6.252 decaf::nio::FloatBuffer Class Reference

This class defines four categories of operations upon float buffers:.

#include <src/main/decaf/nio/FloatBuffer.h> Inheritance diagram for decaf::nio::FloatBuffer:

Public Member Functions

- virtual **~FloatBuffer** ()
- virtual std::string **toString** () const
- virtual float * **array** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the float array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual **FloatBuffer** * **asReadOnlyBuffer** () const =0
Creates a new, read-only float buffer that shares this buffer's content.
- virtual **FloatBuffer** & **compact** ()=0 throw (ReadOnlyBufferException)
Compacts this buffer.
- virtual **FloatBuffer** * **duplicate** ()=0
Creates a new float buffer that shares this buffer's content.
- virtual float **get** ()=0 throw (BufferUnderflowException)
Relative get method.
- virtual float **get** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- **FloatBuffer** & **get** (std::vector< float > buffer) throw (BufferUnderflowException)
Relative bulk get method.
- **FloatBuffer** & **get** (float *buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)
Relative bulk get method.
- virtual bool **hasArray** () const =0
Tells whether or not this buffer is backed by an accessible float array.
- **FloatBuffer** & **put** (**FloatBuffer** &src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)
This method transfers the floats remaining in the given source buffer into this buffer.

- **FloatBuffer** & **put** (const float *buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)
This method transfers floats into this buffer from the given source array.
- **FloatBuffer** & **put** (std::vector< float > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)
This method transfers the entire content of the given source floats array into this buffer.
- virtual **FloatBuffer** & **put** (float value)=0 throw (BufferOverflowException, ReadOnlyBufferException)
Writes the given floats into this buffer at the current position, and then increments the position.
- virtual **FloatBuffer** & **put** (std::size_t index, float value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)
Writes the given floats into this buffer at the given index.
- virtual **FloatBuffer** * **slice** () const =0
*Creates a new **FloatBuffer** (p. 1346) whose content is a shared subsequence of this buffer's content.*
- virtual int **compareTo** (const **FloatBuffer** &value) const
Compares this object with the specified object for order.
- virtual bool **equals** (const **FloatBuffer** &value) const
- virtual bool **operator==** (const **FloatBuffer** &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **FloatBuffer** &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static **FloatBuffer** * **allocate** (std::size_t capacity)
Allocates a new Double buffer.
- static **FloatBuffer** * **wrap** (float *array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
*Wraps the passed buffer with a new **FloatBuffer** (p. 1346).*
- static **FloatBuffer** * **wrap** (std::vector< float > &buffer)
*Wraps the passed STL float Vector in a **FloatBuffer** (p. 1346).*

Protected Member Functions

- **FloatBuffer** (std::size_t capacity)
*Creates a **FloatBuffer** (p. 1346) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*

6.252.1 Detailed Description

This class defines four categories of operations upon float buffers:.

- o Absolute and relative get and put methods that read and write single floats;
- o Relative bulk get methods that transfer contiguous sequences of floats from this buffer into an array; and
- o Relative bulk put methods that transfer contiguous sequences of floats from a float array or some other float buffer into this buffer
- o Methods for compacting, duplicating, and slicing a float buffer.

Double buffers can be created either by allocation, which allocates space for the buffer's content, by wrapping an existing float array into a buffer, or by creating a view of an existing byte buffer

Methods in this class that do not otherwise have a value to return are specified to return the buffer upon which they are invoked. This allows method invocations to be chained.

6.252.2 Constructor & Destructor Documentation

6.252.2.1 `decaf::nio::FloatBuffer::FloatBuffer (std::size_t capacity)` [protected]

Creates a **FloatBuffer** (p. 1346) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size and limit of the **Buffer** (p. 627) in doubles

6.252.2.2 `virtual decaf::nio::FloatBuffer::~~FloatBuffer ()` [inline, virtual]

6.252.3 Member Function Documentation

6.252.3.1 `static FloatBuffer* decaf::nio::FloatBuffer::allocate (std::size_t capacity)` [static]

Allocates a new Double buffer. The new buffer's position will be zero, its limit will be its capacity, and its mark will be undefined. It will have a backing array, and its array offset will be zero.

Parameters:

capacity - The size of the Double buffer in floats

Returns:

the **FloatBuffer** (p. 1346) that was allocated, caller owns.

6.252.3.2 `virtual float* decaf::nio::FloatBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)` [pure virtual]

Returns the float array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this **Buffer** (p. 627)

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1341).

6.252.3.3 virtual std::size_t decaf::nio::FloatBuffer::arrayOffset () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1342).

6.252.3.4 virtual FloatBuffer* decaf::nio::FloatBuffer::asReadOnlyBuffer () const [pure virtual]

Creates a new, read-only float buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only float buffer which the caller then owns.

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1342).

6.252.3.5 virtual FloatBuffer& decaf::nio::FloatBuffer::compact () throw (ReadOnlyBufferException) [pure virtual]

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index `p = position()` (p. 631) is copied

to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index `limit()` (p. 631) - 1 is copied to index $n = \text{limit}() - 1 - p$. The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **FloatBuffer** (p. 1346)

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1342).

6.252.3.6 `virtual int decaf::nio::FloatBuffer::compareTo (const FloatBuffer & value)
const [virtual]`

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

6.252.3.7 `virtual FloatBuffer* decaf::nio::FloatBuffer::duplicate () [pure virtual]`

Creates a new float buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new float **Buffer** (p. 627) which the caller owns.

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1343).

6.252.3.8 `virtual bool decaf::nio::FloatBuffer::equals (const FloatBuffer & value)
const [virtual]`

Returns:

true if this value is considered equal to the passed value.

6.252.3.9 FloatBuffer& decaf::nio::FloatBuffer::get (float * *buffer*, std::size_t *offset*, std::size_t *length*) throw (BufferUnderflowException, lang::exceptions::NullPointerException)

Relative bulk get method. This method transfers floats from this buffer into the given destination array. If there are fewer floats remaining in the buffer than are required to satisfy the request, that is, if `length > remaining()` (p. 632), then no bytes are transferred and a **BufferUnderflowException** (p. 661) is thrown.

Otherwise, this method copies `length` floats from this buffer into the given array, starting at the current position of this buffer and at the given offset in the array. The position of this buffer is then incremented by `length`.

Parameters:

buffer - pointer to an allocated buffer to fill
offset - position in the buffer to start filling
length - amount of data to put in the passed buffer

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than `length` floats remaining in this buffer
NullPointerException if the passed buffer is null.

6.252.3.10 FloatBuffer& decaf::nio::FloatBuffer::get (std::vector< float > *buffer*) throw (BufferUnderflowException)

Relative bulk get method. This method transfers values from this buffer into the given destination vector. An invocation of this method of the form `src.get(a)` behaves in exactly the same way as the invocation. The vector must be sized to the amount of data that is to be read, that is to say, the caller should call `buffer.resize(N)` before calling this get method.

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than `length` floats remaining in this buffer

6.252.3.11 virtual float decaf::nio::FloatBuffer::get (std::size_t *index*) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the **Buffer** (p. 627) where the float is to be read

Returns:

the float that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implemented in `decaf::internal::nio::FloatArrayBuffer` (p. 1343).

6.252.3.12 `virtual float decaf::nio::FloatBuffer::get () throw (BufferUnderflowException)` [pure virtual]

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the float at the current position

Exceptions:

BufferUnderflowException (p. 661) if there no more data to return

Implemented in `decaf::internal::nio::FloatArrayBuffer` (p. 1343).

6.252.3.13 `virtual bool decaf::nio::FloatBuffer::hasArray () const` [pure virtual]

Tells whether or not this buffer is backed by an accessible float array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implemented in `decaf::internal::nio::FloatArrayBuffer` (p. 1344).

6.252.3.14 `virtual bool decaf::nio::FloatBuffer::operator< (const FloatBuffer &value) const` [virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.252.3.15 `virtual bool decaf::nio::FloatBuffer::operator==(const FloatBuffer & value) const` [virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.252.3.16 `virtual FloatBuffer& decaf::nio::FloatBuffer::put (std::size_t index, float value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes the given floats into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the floats to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1344).

6.252.3.17 `virtual FloatBuffer& decaf::nio::FloatBuffer::put (float value) throw (BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes the given floats into this buffer at the current position, and then increments the position.

Parameters:

value - the floats value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1345).

6.252.3.18 FloatBuffer& decaf::nio::FloatBuffer::put (std::vector< float > & *buffer*) throw (BufferOverflowException, ReadOnlyBufferException)

This method transfers the entire content of the given source floats array into this buffer. This is the same as calling put(&buffer[0], 0, buffer.size())

Parameters:

buffer - The buffer whose contents are copied to this **FloatBuffer** (p. 1346)

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.252.3.19 FloatBuffer& decaf::nio::FloatBuffer::put (const float * *buffer*, std::size_t *offset*, std::size_t *length*) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)

This method transfers floats into this buffer from the given source array. If there are more floats to be copied from the array than remain in this buffer, that is, if *length* > **remaining()** (p. 632), then no floats are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies *length* bytes from the given array into this buffer, starting at the given *offset* in the array and at the current position of this buffer. The position of this buffer is then incremented by *length*.

Parameters:

buffer- The array from which floats are to be read

offset- The offset within the array of the first float to be read;

length - The number of floats to be read from the given array

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

NullPointerException if the passed buffer is null.

6.252.3.20 FloatBuffer& decaf::nio::FloatBuffer::put (FloatBuffer & *src*) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)

This method transfers the floats remaining in the given source buffer into this buffer. If there are more floats remaining in the source buffer than in this buffer, that is, if *src.remaining()* >

remaining() (p. 632), then no floats are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies $n = \text{src.remaining}()$ floats from the given buffer into this buffer, starting at each buffer's current position. The positions of both buffers are then incremented by n .

Parameters:

src - the buffer to take floats from an place in this one.

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer for the remaining floats in the source buffer

IllegalArgumentException - If the source buffer is this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.252.3.21 virtual FloatBuffer* decaf::nio::FloatBuffer::slice () const [pure virtual]

Creates a new **FloatBuffer** (p. 1346) whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **FloatBuffer** (p. 1346) which the caller owns.

Implemented in **decaf::internal::nio::FloatArrayBuffer** (p. 1345).

6.252.3.22 virtual std::string decaf::nio::FloatBuffer::toString () const [virtual]

Returns:

a std::string describing this object

6.252.3.23 static FloatBuffer* decaf::nio::FloatBuffer::wrap (std::vector< float > & buffer) [static]

Wraps the passed STL float Vector in a **FloatBuffer** (p. 1346). The new buffer will be backed by the given float array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new **FloatBuffer** (p. 1346) that is backed by *buffer*, caller owns.

6.252.3.24 `static FloatBuffer* decaf::nio::FloatBuffer::wrap (float *
array, std::size_t offset, std::size_t length) throw (
lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new **FloatBuffer** (p. 1346). The new buffer will be backed by the given float array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

array - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new **FloatBuffer** (p. 1346) that is backed by *buffer*, caller owns.

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/FloatBuffer.h`

6.253 activemq::commands::FlushCommand Class Reference

#include <src/main/activemq/commands/FlushCommand.h> Inheritance diagram for activemq::commands::FlushCommand:

Public Member Functions

- **FlushCommand** ()
- virtual **~FlushCommand** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **FlushCommand * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual **Pointer< Command > visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID _FLUSHCOMMAND** = 15

Protected Member Functions

- **FlushCommand** (const **FlushCommand** &)
- **FlushCommand** & **operator=** (const **FlushCommand** &)

6.253.1 Constructor & Destructor Documentation

6.253.1.1 `activemq::commands::FlushCommand::FlushCommand (const FlushCommand &) [inline, protected]`

6.253.1.2 `activemq::commands::FlushCommand::FlushCommand ()`

6.253.1.3 `virtual activemq::commands::FlushCommand::~~FlushCommand () [virtual]`

6.253.2 Member Function Documentation

6.253.2.1 `virtual FlushCommand* activemq::commands::FlushCommand::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.253.2.2 `virtual void activemq::commands::FlushCommand::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.253.2.3 `virtual bool activemq::commands::FlushCommand::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.253.2.4 `virtual unsigned char activemq::commands::FlushCommand::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

6.253.2.5 **FlushCommand& activemq::commands::FlushCommand::operator=**
(const **FlushCommand** &) [inline, protected]

6.253.2.6 **virtual std::string activemq::commands::FlushCommand::toString ()**
const [virtual]

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.253.2.7 **virtual Pointer<Command> activemq::commands::FlushCommand::visit**
(activemq::state::CommandVisitor * *visitor*) throw (
exceptions::ActiveMQException) [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.253.3 Field Documentation

6.253.3.1 **const unsigned char activemq::commands::FlushCommand::ID_ -**
FLUSHCOMMAND = 15 [static]

The documentation for this class was generated from the following file:

- src/main/activemq/commands/**FlushCommand.h**

6.254 activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p.1360).

#include <src/main/activemq/wireformat/openwire/marshal/v1/FlushCommandMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller:

Public Member Functions

- **FlushCommandMarshaller** ()
- virtual **~FlushCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.254.1 Detailed Description

Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p.1360). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.254.2 Constructor & Destructor Documentation

6.254.2.1 `activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::FlushCommandMarshaller()` [inline]

6.254.2.2 `virtual activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::~~FlushCommandMarshaller()` [inline, virtual]

6.254.3 Member Function Documentation

6.254.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.254.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.254.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.254.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.254.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.254.3.6 virtual void activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.254.3.7 virtual void activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**FlushCommandMarshaller.h**

6.255 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p.1364).

#include <src/main/activemq/wireformat/openwire/marshal/v3/FlushCommandMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller:

Public Member Functions

- **FlushCommandMarshaller** ()
- virtual **~FlushCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.255.1 Detailed Description

Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p.1364). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.255.2 Constructor & Destructor Documentation

6.255.2.1 `activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::FlushCommandMarshaller()` [inline]

6.255.2.2 `virtual activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::~~FlushCommandMarshaller()` [inline, virtual]

6.255.3 Member Function Documentation

6.255.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.255.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.255.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.255.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.255.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.255.3.6 virtual void activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.255.3.7 virtual void activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/FlushCommandMarshaller.h

6.256 activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p.1368).

#include <src/main/activemq/wireformat/openwire/marshal/v2/FlushCommandMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller:

Public Member Functions

- **FlushCommandMarshaller** ()
- virtual **~FlushCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.256.1 Detailed Description

Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p.1368). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.256.2 Constructor & Destructor Documentation

6.256.2.1 `activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::FlushCommandMarshaller()` [inline]

6.256.2.2 `virtual activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::~~FlushCommandMarshaller()` [inline, virtual]

6.256.3 Member Function Documentation

6.256.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.256.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.256.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.256.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.256.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.256.3.6 virtual void activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.256.3.7 virtual void activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/FlushCommandMarshaller.h

6.257 decaf::util::logging::Formatter Class Reference

A **Formatter** (p. 1372) provides support for formatting LogRecords.

#include <src/main/decaf/util/logging/Formatter.h> Inheritance diagram for decaf::util::logging::Formatter:

Public Member Functions

- virtual **~Formatter** ()
- virtual std::string **format** (const **LogRecord** &record) const =0
Format the given log record and return the formatted string.
- virtual std::string **formatMessage** (const **LogRecord** &record) const =0
Format the message string from a log record.
- virtual std::string **getHead** (const **Handler** *handler)=0
Return the header string for a set of formatted records.
- virtual std::string **getTail** (const **Handler** *handler)=0
Return the tail string for a set of formatted records.

6.257.1 Detailed Description

A **Formatter** (p. 1372) provides support for formatting LogRecords. Typically each **logging** (p. 120) **Handler** (p. 1382) will have a **Formatter** (p. 1372) associated with it. The **Formatter** (p. 1372) takes a **LogRecord** (p. 1645) and converts it to a string.

Some formatters (such as the XMLFormatter) need to wrap head and tail strings around a set of formatted records. The getHeader and getTail methods can be used to obtain these strings.

6.257.2 Constructor & Destructor Documentation

6.257.2.1 virtual decaf::util::logging::Formatter::~~Formatter () [inline, virtual]

6.257.3 Member Function Documentation

6.257.3.1 virtual std::string decaf::util::logging::Formatter::format (const **LogRecord** & *record*) const [pure virtual]

Format the given log record and return the formatted string.

Parameters:

record The Log Record to Format

Returns:

the formatted record.

Implemented in **decaf::util::logging::SimpleFormatter** (p. 2367).

6.257.3.2 virtual std::string decaf::util::logging::Formatter::formatMessage (const LogRecord & *record*) const [pure virtual]

Format the message string from a log record.

Parameters:

record The Log Record to Format

Returns:

the formatted message

Implemented in **decaf::util::logging::SimpleFormatter** (p. 2368).

6.257.3.3 virtual std::string decaf::util::logging::Formatter::getHead (const Handler * *handler*) [pure virtual]

Return the header string for a set of formatted records. In the default implementation this method should return empty string

Parameters:

handler the target handler, can be null

Returns:

the head string

Implemented in **decaf::util::logging::SimpleFormatter** (p. 2368).

6.257.3.4 virtual std::string decaf::util::logging::Formatter::getTail (const Handler * *handler*) [pure virtual]

Return the tail string for a set of formatted records. In the default implementation this method should return empty string

Parameters:

handler the target handler, can be null

Returns:

the tail string

Implemented in **decaf::util::logging::SimpleFormatter** (p. 2368).

The documentation for this class was generated from the following file:

- src/main/decaf/util/logging/**Formatter.h**

6.258 decaf::util::concurrent::Future< V > Class Template Reference

A **Future** (p. 1374) represents the result of an asynchronous computation.

```
#include <src/main/decaf/util/concurrent/Future.h>
```

Public Member Functions

- virtual **~Future** ()
- bool **cancel** (bool mayInterruptIfRunning)=0
Attempts to cancel execution of this task.
- bool **isCancelled** () const =0
Returns true if this task was canceled before it completed normally.
- bool **isDone** () const =0
Returns true if this task completed.
- V **get** ()=0 throw (CancellationException, InterruptedException, ExecutionException)
Waits if necessary for the computation to complete, and then retrieves its result.
- V **get** (long long timeout, **TimeUnit** unit)=0 throw (InterruptedException, ExecutionException, TimeoutException)
Waits if necessary for at most the given time for the computation to complete, and then retrieves its result, if available.

6.258.1 Detailed Description

```
template<typename V> class decaf::util::concurrent::Future< V >
```

A **Future** (p. 1374) represents the result of an asynchronous computation. Methods are provided to check if the computation is complete, to wait for its completion, and to retrieve the result of the computation. The result can only be retrieved using method **get** when the computation has completed, blocking if necessary until it is ready. Cancellation is performed by the **cancel** method. Additional methods are provided to determine if the task completed normally or was canceled. Once a computation has completed, the computation cannot be canceled. If you would like to use a **Future** (p. 1374) for the sake of cancellability but not provide a usable result, you can declare types of the form `Future<void*>` and return null as a result of the underlying task.

6.258.2 Constructor & Destructor Documentation

6.258.2.1 `template<typename V > virtual decaf::util::concurrent::Future< V >::~~Future () [inline, virtual]`

6.258.3 Member Function Documentation

6.258.3.1 `template<typename V > bool decaf::util::concurrent::Future< V >::cancel (bool mayInterruptIfRunning) [pure virtual]`

Attempts to cancel execution of this task. This attempt will fail if the task has already completed, has already been canceled, or could not be canceled for some other reason. If successful, and this task has not started when cancel is called, this task should never run. If the task has already started, then the *mayInterruptIfRunning* parameter determines whether the thread executing this task should be interrupted in an attempt to stop the task.

After this method returns, subsequent calls to **isDone()** (p. 1376) will always return true. Subsequent calls to **isCancelled()** (p. 1376) will always return true if this method returned true.

Parameters:

mayInterruptIfRunning - true if the thread executing this task should be interrupted; otherwise, in-progress tasks are allowed to complete.

Returns:

false if the task could not be canceled, typically because it has already completed normally;
true otherwise

6.258.3.2 `template<typename V > V decaf::util::concurrent::Future< V >::get (long long timeout, TimeUnit unit) throw (InterruptedException, ExecutionException, TimeoutException) [pure virtual]`

Waits if necessary for at most the given time for the computation to complete, and then retrieves its result, if available.

Parameters:

timeout - the maximum time to wait

unit - the time unit of the timeout argument

Returns:

the computed result

Exceptions:

CancellationException (p. 784) - if the computation was canceled

ExecutionException (p. 1291) - if the computation threw an exception

InterruptedException - if the current thread was interrupted while waiting

TimeoutException (p. 2559) - if the wait timed out

6.258.3.3 `template<typename V > V decaf::util::concurrent::Future< V >::get () throw (CancellationException, InterruptedException, ExecutionException) [pure virtual]`

Waits if necessary for the computation to complete, and then retrieves its result.

Returns:

the computed result.

Exceptions:

CancellationException (p. 784) - if the computation was canceled
ExecutionException (p. 1291) - if the computation threw an exception
InterruptedException - if the current thread was interrupted while waiting

6.258.3.4 `template<typename V > bool decaf::util::concurrent::Future< V >::isCancelled () const [pure virtual]`

Returns true if this task was canceled before it completed normally.

Returns:

true if this task was canceled before it completed

6.258.3.5 `template<typename V > bool decaf::util::concurrent::Future< V >::isDone () const [pure virtual]`

Returns true if this task completed. Completion may be due to normal termination, an exception, or cancellation -- in all of these cases, this method will return true.

Returns:

true if this task completed

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/Future.h`

6.259 activemq::transport::correlator::FutureResponse Class Reference

A container that holds a response object.

```
#include <src/main/activemq/transport/correlator/FutureResponse.h>
```

Public Member Functions

- **FutureResponse** ()
- virtual **~FutureResponse** ()
- virtual const **Pointer< Response > & getResponse** () const
Getters for the response property.
- virtual **Pointer< Response > & getResponse** ()
- virtual const **Pointer< Response > & getResponse** (unsigned int timeout) const
Getters for the response property.
- virtual **Pointer< Response > & getResponse** (unsigned int timeout)
- virtual void **setResponse** (const **Pointer< Response > &response**)
Setter for the response property.

6.259.1 Detailed Description

A container that holds a response object. Callers of the `getResponse` method will block until a response has been receive unless they call the `getRepsonse` that takes a timeout.

6.259.2 Constructor & Destructor Documentation

6.259.2.1 `activemq::transport::correlator::FutureResponse::FutureResponse ()`
[inline]

6.259.2.2 `virtual`
`activemq::transport::correlator::FutureResponse::~~FutureResponse ()`
[inline, virtual]

6.259.3 Member Function Documentation

6.259.3.1 `virtual Pointer<Response>& activemq::transport::correlator::FutureResponse::getResponse (unsigned int timeout)` [inline, virtual]

6.259.3.2 `virtual const Pointer<Response>& activemq::transport::correlator::FutureResponse::getResponse (unsigned int timeout) const` [inline, virtual]

Getters for the response property. Timed Wait.

Parameters:

timeout - time to wait in milliseconds

Returns:

the response object for the request

6.259.3.3 `virtual Pointer<Response>& activemq::transport::correlator::FutureResponse::getResponse () [inline, virtual]`

6.259.3.4 `virtual const Pointer<Response>& activemq::transport::correlator::FutureResponse::getResponse () const [inline, virtual]`

Getters for the response property. Infinite Wait.

Returns:

the response object for the request

6.259.3.5 `virtual void activemq::transport::correlator::FutureResponse::setResponse (const Pointer< Response > & response) [inline, virtual]`

Setter for the response property.

Parameters:

response the response object for the request.

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/correlator/FutureResponse.h`

6.260 decaf::security::GeneralSecurityException Class Reference

#include <src/main/decaf/security/GeneralSecurityException.h> Inheritance diagram for decaf::security::GeneralSecurityException:

Public Member Functions

- **GeneralSecurityException** () throw ()
Default Constructor.
- **GeneralSecurityException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **GeneralSecurityException** (const **GeneralSecurityException** &ex) throw ()
Copy Constructor.
- **GeneralSecurityException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **GeneralSecurityException** (const std::exception *cause) throw ()
Constructor.
- **GeneralSecurityException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **GeneralSecurityException** * clone () const
Clones this exception.
- virtual ~**GeneralSecurityException** () throw ()

6.260.1 Constructor & Destructor Documentation

6.260.1.1 decaf::security::GeneralSecurityException::GeneralSecurityException () throw () [inline]

Default Constructor.

6.260.1.2 decaf::security::GeneralSecurityException::GeneralSecurityException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.260.1.3 decaf::security::GeneralSecurityException::GeneralSecurityException (const GeneralSecurityException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.260.1.4 decaf::security::GeneralSecurityException::GeneralSecurityException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.260.1.5 decaf::security::GeneralSecurityException::GeneralSecurityException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.260.1.6 decaf::security::GeneralSecurityException::GeneralSecurityException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.260.1.7 `virtual`
`decaf::security::GeneralSecurityException::~~GeneralSecurityException ()`
`throw ()` [`inline`, `virtual`]

6.260.2 Member Function Documentation

6.260.2.1 `virtual GeneralSecurityException* de-`
`caf::security::GeneralSecurityException::clone () const`
`[inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented in `decaf::security::cert::CertificateEncodingException`
 (p. 792), `decaf::security::cert::CertificateException` (p. 794), `de-`
`caf::security::cert::CertificateExpiredException` (p. 796), `de-`
`caf::security::cert::CertificateNotYetValidException` (p. 798), `de-`
`caf::security::cert::CertificateParsingException` (p. 800), `de-`
`caf::security::InvalidKeyException` (p. 1469), `decaf::security::KeyException`
 (p. 1574), `decaf::security::NoSuchAlgorithmException` (p. 1944),
`decaf::security::NoSuchProviderException` (p. 1950), and `de-`
`caf::security::SignatureException` (p. 2366).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/GeneralSecurityException.h`

6.261 decaf::util::logging::Handler Class Reference

A **Handler** (p.1382) object takes log messages from a **Logger** (p.1623) and exports them.

#include <src/main/decaf/util/logging/Handler.h> Inheritance diagram for decaf::util::logging::Handler:

Public Member Functions

- virtual **~Handler** ()
- virtual void **flush** ()=0
Flush the Handler's output, clears any buffers.
- virtual void **publish** (const **LogRecord** &record)=0
*Publish the Log Record to this **Handler** (p.1382).*
- virtual void **isLoggable** (const **LogRecord** &record)=0
*Check if this **Handler** (p.1382) would actually log a given **LogRecord** (p.1645).*
- virtual void **setFilter** (const **Filter** *filter)=0
*Sets the **Filter** (p.1314) that this **Handler** (p.1382) uses to filter Log Records.*
- virtual const **Filter** * **getFilter** ()=0
*Gets the **Filter** (p.1314) that this **Handler** (p.1382) uses to filter Log Records.*
- virtual void **setLevel** (**Level** value)=0
*Set (p.2320) the log level specifying which message levels will be logged by this **Handler** (p.1382).*
- virtual **Level** **getLevel** ()=0
*Get the log level specifying which message levels will be logged by this **Handler** (p.1382).*
- virtual void **setFormatter** (const **Formatter** *formatter)=0
*Sets the **Formatter** (p.1372) used by this **Handler** (p.1382).*
- virtual const **Formatter** * **getFormatter** ()=0
*Gets the **Formatter** (p.1372) used by this **Handler** (p.1382).*

6.261.1 Detailed Description

A **Handler** (p.1382) object takes log messages from a **Logger** (p.1623) and exports them. It might for example, write them to a console or write them to a file, or send them to a network **logging** (p.120) service, or forward them to an OS log, or whatever.

A **Handler** (p.1382) can be disabled by doing a **setLevel**(**Level**.OFF) and can be re-enabled by doing a **setLevel** with an appropriate level.

Handler (p.1382) classes typically use **LogManager** (p.1640) properties to set default values for the Handler's **Filter** (p.1314), **Formatter** (p.1372), and **Level**. See the specific documentation for each concrete **Handler** (p.1382) class.

6.261.2 Constructor & Destructor Documentation

6.261.2.1 virtual `decaf::util::logging::Handler::~~Handler ()` [inline, virtual]

6.261.3 Member Function Documentation

6.261.3.1 virtual void `decaf::util::logging::Handler::flush ()` [pure virtual]

Flush the Handler's output, clears any buffers.

Implemented in `decaf::util::logging::StreamHandler` (p. 2473).

6.261.3.2 virtual const `Filter*` `decaf::util::logging::Handler::getFilter ()` [pure virtual]

Gets the **Filter** (p. 1314) that this **Handler** (p. 1382) uses to filter Log Records.

Returns:

`Filter` (p. 1314) derived instance

Implemented in `decaf::util::logging::StreamHandler` (p. 2473).

6.261.3.3 virtual const `Formatter*` `decaf::util::logging::Handler::getFormatter ()` [pure virtual]

Gets the `Formatter` (p. 1372) used by this **Handler** (p. 1382).

Returns:

`Filter` (p. 1314) derived instance

Implemented in `decaf::util::logging::StreamHandler` (p. 2474).

6.261.3.4 virtual `Level` `decaf::util::logging::Handler::getLevel ()` [pure virtual]

Get the log level specifying which message levels will be logged by this **Handler** (p. 1382).

Returns:

Level enumeration value

Implemented in `decaf::util::logging::StreamHandler` (p. 2474).

6.261.3.5 virtual void `decaf::util::logging::Handler::isLoggable (const LogRecord & record)` [pure virtual]

Check if this **Handler** (p. 1382) would actually log a given **LogRecord** (p. 1645). This method checks if the **LogRecord** (p. 1645) has an appropriate `Level` and whether it satisfies any **Filter** (p. 1314). It also may make other **Handler** (p. 1382) specific checks that might prevent a handler from **logging** (p. 120) the **LogRecord** (p. 1645).

Parameters:

record LogRecord (p. 1645) to check

Implemented in **decaf::util::logging::StreamHandler** (p. 2474).

6.261.3.6 virtual void decaf::util::logging::Handler::publish (const LogRecord & *record*) [pure virtual]

Publish the Log Record to this **Handler** (p. 1382).

Parameters:

record The Log Record to Publish

Implemented in **decaf::util::logging::StreamHandler** (p. 2474).

6.261.3.7 virtual void decaf::util::logging::Handler::setFilter (const Filter * *filter*) [pure virtual]

Sets the **Filter** (p. 1314) that this **Handler** (p. 1382) uses to filter Log Records. For each call of publish the **Handler** (p. 1382) will call this **Filter** (p. 1314) (if it is non-null) to check if the **LogRecord** (p. 1645) should be published or discarded.

Parameters:

filter Filter (p. 1314) derived instance

Implemented in **decaf::util::logging::StreamHandler** (p. 2475).

6.261.3.8 virtual void decaf::util::logging::Handler::setFormatter (const Formatter * *formatter*) [pure virtual]

Sets the **Formatter** (p. 1372) used by this **Handler** (p. 1382). Some Handlers may not use Formatters, in which case the **Formatter** (p. 1372) will be remembered, but not used.

Parameters:

formatter Filter (p. 1314) derived instance

Implemented in **decaf::util::logging::StreamHandler** (p. 2475).

6.261.3.9 virtual void decaf::util::logging::Handler::setLevel (Level *value*) [pure virtual]

Set (p. 2320) the log level specifying which message levels will be logged by this **Handler** (p. 1382). The intention is to allow developers to turn on voluminous **logging** (p. 120), but to limit the messages that are sent to certain Handlers.

Parameters:

value Level enumeration value

Implemented in **decaf::util::logging::StreamHandler** (p. 2475).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/logging/Handler.h`

6.262 decaf::internal::util::HexStringParser Class Reference

```
#include <src/main/decaf/internal/util/HexStringParser.h>
```

Public Member Functions

- **HexStringParser** (int exponentWidth, int mantissaWidth)
Create a new HexParser.
- virtual **~HexStringParser** ()
- long long **parse** (const std::string &hexString)
Parses a hex string using the specs given in the constructor and returns a long long with the bits of the parsed string, the caller can then convert those to a float or double as needed.

Static Public Member Functions

- static double **parseDouble** (const std::string &hexString)
- static float **parseFloat** (const std::string &hexString)

6.262.1 Constructor & Destructor Documentation

6.262.1.1 decaf::internal::util::HexStringParser::HexStringParser (int exponentWidth, int mantissaWidth)

Create a new HexParser.

Parameters:

exponentWidth - Width of the exponent for the type to parse
mantissaWidth - Width of the mantissa for the type to parse

6.262.1.2 virtual decaf::internal::util::HexStringParser::~~HexStringParser () [inline, virtual]

6.262.2 Member Function Documentation

6.262.2.1 long long decaf::internal::util::HexStringParser::parse (const std::string &hexString)

Parses a hex string using the specs given in the constructor and returns a long long with the bits of the parsed string, the caller can then convert those to a float or double as needed.

Parameters:

hexString - string to parse

Returns:

the bits parsed from the string

6.262.2.2 static double decaf::internal::util::HexStringParser::parseDouble (const std::string & *hexString*) [static]

6.262.2.3 static float decaf::internal::util::HexStringParser::parseFloat (const std::string & *hexString*) [static]

The documentation for this class was generated from the following file:

- src/main/decaf/internal/util/**HexStringParser.h**

6.263 activemq::wireformat::openwire::utils::HexTable Class Reference

The **HexTable** (p. 1388) class maps hexadecimal strings to the value of an index into the table, i.e.

```
#include <src/main/activemq/wireformat/openwire/utils/HexTable.h>
```

Public Member Functions

- **HexTable** ()
- virtual **~HexTable** ()
- virtual const std::string & **operator[]** (std::size_t index) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Index operator for this Table, will throw an exception if the index requested is out of bounds for this table.

- virtual const std::string & **operator[]** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)
- virtual std::size_t **size** () const

Returns the max size of this Table.

6.263.1 Detailed Description

The **HexTable** (p. 1388) class maps hexadecimal strings to the value of an index into the table, i.e. the class will return "FF" for the index 255 in the table.

6.263.2 Constructor & Destructor Documentation

6.263.2.1 activemq::wireformat::openwire::utils::HexTable::HexTable ()

6.263.2.2 virtual activemq::wireformat::openwire::utils::HexTable::~~HexTable ()
[inline, virtual]

6.263.3 Member Function Documentation

6.263.3.1 virtual const std::string&
activemq::wireformat::openwire::utils::HexTable::operator[] (std::size_t
index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException
) [virtual]

6.263.3.2 virtual const std::string&
activemq::wireformat::openwire::utils::HexTable::operator[] (std::size_t
index) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
[virtual]

Index operator for this Table, will throw an exception if the index requested is out of bounds for this table.

Parameters:

index The index of the value in the table to fetch.

Returns:

string containing the hex value if the index

Exceptions:

IndexOutOfBoundsException

6.263.3.3 `virtual std::size_t activemq::wireformat::openwire::utils::HexTable::size
() const [inline, virtual]`

Returns the max size of this Table.

Returns:

an integer size value

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/utils/HexTable.h`

6.264 decaf::net::HttpRetryException Class Reference

#include <src/main/decaf/net/HttpRetryException.h> Inheritance diagram for decaf::net::HttpRetryException:

Public Member Functions

- **HttpRetryException** () throw ()
Default Constructor.
- **HttpRetryException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **HttpRetryException** (const **HttpRetryException** &ex) throw ()
Copy Constructor.
- **HttpRetryException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **HttpRetryException** (const std::exception *cause) throw ()
Constructor.
- **HttpRetryException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **HttpRetryException** * **clone** () const
Clones this exception.
- virtual ~**HttpRetryException** () throw ()

6.264.1 Constructor & Destructor Documentation

6.264.1.1 decaf::net::HttpRetryException::HttpRetryException () throw () [inline]

Default Constructor.

6.264.1.2 decaf::net::HttpRetryException::HttpRetryException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.264.1.3 decaf::net::HttpRetryException::HttpRetryException (const HttpRetryException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.264.1.4 decaf::net::HttpRetryException::HttpRetryException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.264.1.5 decaf::net::HttpRetryException::HttpRetryException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.264.1.6 decaf::net::HttpRetryException::HttpRetryException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.264.1.7 `virtual decaf::net::HttpRetryException::~~HttpRetryException () throw
() [inline, virtual]`

6.264.2 Member Function Documentation

6.264.2.1 `virtual HttpRetryException* decaf::net::HttpRetryException::clone ()
const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::io::IOException** (p. 1479).

The documentation for this class was generated from the following file:

- `src/main/decaf/net/HttpRetryException.h`

6.265 decaf::lang::exceptions::IllegalArgumentException Class Reference

#include <src/main/decaf/lang/exceptions/IllegalArgumentException.h> Inheritance diagram for decaf::lang::exceptions::IllegalArgumentException:

Public Member Functions

- **IllegalArgumentException** () throw ()
Default Constructor.
- **IllegalArgumentException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **IllegalArgumentException** (const **IllegalArgumentException** &ex) throw ()
Copy Constructor.
- **IllegalArgumentException** (const std::exception *cause) throw ()
Constructor.
- **IllegalArgumentException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IllegalArgumentException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **IllegalArgumentException** * **clone** () const
Clones this exception.
- virtual ~**IllegalArgumentException** () throw ()

6.265.1 Constructor & Destructor Documentation

6.265.1.1 decaf::lang::exceptions::IllegalArgumentException::IllegalArgumentException () throw () [inline]

Default Constructor.

6.265.1.2 decaf::lang::exceptions::IllegalArgumentException::IllegalArgumentException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.265.1.3 decaf::lang::exceptions::IllegalArgumentException::IllegalArgumentException (const IllegalArgumentException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.265.1.4 decaf::lang::exceptions::IllegalArgumentException::IllegalArgumentException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.265.1.5 decaf::lang::exceptions::IllegalArgumentException::IllegalArgumentException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.265.1.6 decaf::lang::exceptions::IllegalArgumentException::IllegalArgumentException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.265.1.7 **virtual**
 decaf::lang::exceptions::IllegalArgumentException::~~IllegalArgumentException
 () throw () [inline, virtual]

6.265.2 Member Function Documentation

6.265.2.1 **virtual IllegalArgumentException* de-**
 caf::lang::exceptions::IllegalArgumentException::clone ()
 const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**IllegalArgumentException.h**

6.266 decaf::lang::exceptions::IllegalMonitorStateException Class Reference

#include <src/main/decaf/lang/exceptions/IllegalMonitorStateException.h> Inheritance diagram for decaf::lang::exceptions::IllegalMonitorStateException:

Public Member Functions

- **IllegalMonitorStateException** () throw ()
Default Constructor.
- **IllegalMonitorStateException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **IllegalMonitorStateException** (const **IllegalMonitorStateException** &ex) throw ()
Copy Constructor.
- **IllegalMonitorStateException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IllegalMonitorStateException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IllegalMonitorStateException** (const std::exception *cause) throw ()
Constructor.
- virtual **IllegalMonitorStateException** * clone () const
Clones this exception.
- virtual ~**IllegalMonitorStateException** () throw ()

6.266.1 Constructor & Destructor Documentation

6.266.1.1 decaf::lang::exceptions::IllegalMonitorStateException::IllegalMonitorStateException () throw () [inline]

Default Constructor.

6.266.1.2 decaf::lang::exceptions::IllegalMonitorStateException::IllegalMonitorStateException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.266.1.3 decaf::lang::exceptions::IllegalMonitorStateException::IllegalMonitorStateException (const IllegalMonitorStateException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.266.1.4 decaf::lang::exceptions::IllegalMonitorStateException::IllegalMonitorStateException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.266.1.5 decaf::lang::exceptions::IllegalMonitorStateException::IllegalMonitorStateException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.266.1.6 decaf::lang::exceptions::IllegalMonitorStateException::IllegalMonitorStateException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.266.1.7 **virtual**
decaf::lang::exceptions::IllegalMonitorStateException::~~IllegalMonitorStateException
() throw () [inline, virtual]

6.266.2 Member Function Documentation

6.266.2.1 **virtual IllegalMonitorStateException* de-**
caf::lang::exceptions::IllegalMonitorStateException::clone
() const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/exceptions/IllegalMonitorStateException.h`

6.267 cms::IllegalStateException Class Reference

This exception is thrown when a method is invoked at an illegal or inappropriate time or if the provider is not in an appropriate state for the requested operation.

#include <src/main/cms/IllegalStateException.h> Inheritance diagram for cms::IllegalStateException:

Public Member Functions

- **IllegalStateException** () throw ()
- **IllegalStateException** (const **IllegalStateException** &ex) throw ()
- **IllegalStateException** (const std::string &message, const std::exception *cause) throw ()
- **IllegalStateException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**IllegalStateException** () throw ()

6.267.1 Detailed Description

This exception is thrown when a method is invoked at an illegal or inappropriate time or if the provider is not in an appropriate state for the requested operation. For example, this exception must be thrown if **Session.commit** (p. 2274) is called on a non-transacted session.

Since:

1.3

6.267.2 Constructor & Destructor Documentation

6.267.2.1 cms::IllegalStateException::IllegalStateException () throw ()

6.267.2.2 cms::IllegalStateException::IllegalStateException (const IllegalStateException & ex) throw ()

6.267.2.3 cms::IllegalStateException::IllegalStateException (const std::string & message, const std::exception * cause) throw ()

6.267.2.4 cms::IllegalStateException::IllegalStateException (const std::string & message, const std::exception * cause, const std::vector< std::pair< std::string, int > > & stackTrace) throw ()

6.267.2.5 virtual cms::IllegalStateException::~~IllegalStateException () throw ()
[virtual]

The documentation for this class was generated from the following file:

- src/main/cms/IllegalStateException.h

6.268 decaf::lang::exceptions::IllegalStateException Class Reference

#include <src/main/decaf/lang/exceptions/IllegalStateException.h> Inheritance diagram for decaf::lang::exceptions::IllegalStateException:

Public Member Functions

- **IllegalStateException** () throw ()
Default Constructor.
- **IllegalStateException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **IllegalStateException** (const **IllegalStateException** &ex) throw ()
Copy Constructor.
- **IllegalStateException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IllegalStateException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IllegalStateException** (const std::exception *cause) throw ()
Constructor.
- virtual **IllegalStateException** * clone () const
Clones this exception.
- virtual ~**IllegalStateException** () throw ()

6.268.1 Constructor & Destructor Documentation

6.268.1.1 decaf::lang::exceptions::IllegalStateException::IllegalStateException () throw () [inline]

Default Constructor.

6.268.1.2 decaf::lang::exceptions::IllegalStateException::IllegalStateException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.268.1.3 decaf::lang::exceptions::IllegalStateException::IllegalStateException (const IllegalStateException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.268.1.4 decaf::lang::exceptions::IllegalStateException::IllegalStateException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.268.1.5 decaf::lang::exceptions::IllegalStateException::IllegalStateException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.268.1.6 decaf::lang::exceptions::IllegalStateException::IllegalStateException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.268.1.7 **virtual**
decaf::lang::exceptions::IllegalStateException::~~IllegalStateException ()
throw () [inline, virtual]

6.268.2 Member Function Documentation

6.268.2.1 **virtual** **IllegalStateException*** **de-**
caf::lang::exceptions::IllegalStateException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

Reimplemented in **decaf::nio::InvalidMarkException** (p. 1472).

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/exceptions/IllegalStateException.h`

6.269 decaf::lang::exceptions::IndexOutOfBounds Exception Class Reference

#include <src/main/decaf/lang/exceptions/IndexOutOfBounds Exception.h> Inheritance diagram for decaf::lang::exceptions::IndexOutOfBounds Exception:

Public Member Functions

- **IndexOutOfBounds Exception** () throw ()
Default Constructor.
- **IndexOutOfBounds Exception** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **IndexOutOfBounds Exception** (const **IndexOutOfBounds Exception** &ex) throw ()
Copy Constructor.
- **IndexOutOfBounds Exception** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IndexOutOfBounds Exception** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IndexOutOfBounds Exception** (const std::exception *cause) throw ()
Constructor.
- virtual **IndexOutOfBounds Exception** * clone () const
Clones this exception.
- virtual ~**IndexOutOfBounds Exception** () throw ()

6.269.1 Constructor & Destructor Documentation

6.269.1.1 decaf::lang::exceptions::IndexOutOfBounds Exception::IndexOutOfBounds Exception () throw () [inline]

Default Constructor.

6.269.1.2 decaf::lang::exceptions::IndexOutOfBounds Exception::IndexOutOfBounds Exception (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.269.1.3 `decaf::lang::exceptions::IndexOutOfBoundsException::IndexOutOfBoundsException (const IndexOutOfBoundsException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.269.1.4 `decaf::lang::exceptions::IndexOutOfBoundsException::IndexOutOfBoundsException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.269.1.5 `decaf::lang::exceptions::IndexOutOfBoundsException::IndexOutOfBoundsException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.269.1.6 `decaf::lang::exceptions::IndexOutOfBoundsException::IndexOutOfBoundsException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.269.1.7 virtual
decaf::lang::exceptions::IndexOutOfBoundsException::~IndexOutOfBoundsException
() throw () [inline, virtual]

6.269.2 Member Function Documentation

6.269.2.1 virtual IndexOutOfBoundsException* decaf::lang::exceptions::IndexOutOfBoundsException::clone
() const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**IndexOutOfBoundsException.h**

6.270 decaf::io::InputStream Class Reference

Base interface for an input stream.

```
#include <src/main/decaf/io/InputStream.h>
Inheritance diagram for decaf::io::InputStream:
```

Public Member Functions

- virtual **~InputStream** ()
- virtual void **mark** (int readLimit)=0

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes.
- virtual void **reset** ()=0 throw (IOException)

Repositions this stream to the position at the time the mark method was last called on this input stream.
- virtual bool **markSupported** () const =0

Determines if this input stream supports the mark and reset methods.
- virtual std::size_t **available** () const =0 throw (IOException)

Indicates the number of bytes available.
- virtual unsigned char **read** ()=0 throw (IOException)

Reads a single byte from the buffer.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize)=0 throw (IOException, lang::exceptions::NullPointerException)

Reads an array of bytes from the buffer.
- virtual std::size_t **skip** (std::size_t num)=0 throw (io::IOException, lang::exceptions::UnsupportedOperationException)

Skips over and discards n bytes of data from this input stream.

6.270.1 Detailed Description

Base interface for an input stream.

6.270.2 Constructor & Destructor Documentation

6.270.2.1 virtual decaf::io::InputStream::~~InputStream () [inline, virtual]

6.270.3 Member Function Documentation

6.270.3.1 virtual std::size_t decaf::io::InputStream::available () const throw (IOException) [pure virtual]

Indicates the number of bytes available.

Returns:

the number of bytes available on this input stream.

Exceptions:

IOException (p. 1477) if an error occurs.

Implemented in `decaf::internal::io::StandardInputStream` (p. 2404), `decaf::io::BlockingByteArrayInputStream` (p. 568), `decaf::io::BufferedInputStream` (p. 634), `decaf::io::ByteArrayInputStream` (p. 718), `decaf::io::FilterInputStream` (p. 1317), and `decaf::net::SocketInputStream` (p. 2385).

6.270.3.2 virtual void decaf::io::InputStream::mark (int *readLimit*) [pure virtual]

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes. If a stream instance reports that marks are supported then the stream will ensure that the same bytes can be read again after the reset method is called so long the readLimit is not reached.

Parameters:

readLimit - max bytes read before marked position is invalid.

Implemented in `decaf::internal::io::StandardInputStream` (p. 2405), `decaf::io::BlockingByteArrayInputStream` (p. 568), `decaf::io::BufferedInputStream` (p. 635), `decaf::io::ByteArrayInputStream` (p. 718), `decaf::io::FilterInputStream` (p. 1318), and `decaf::net::SocketInputStream` (p. 2386).

6.270.3.3 virtual bool decaf::io::InputStream::markSupported () const [pure virtual]

Determines if this input stream supports the mark and reset methods. Whether or not mark and reset are supported is an invariant property of a particular input stream instance.

Returns:

true if this stream instance supports marks

Implemented in `decaf::internal::io::StandardInputStream` (p. 2405), `decaf::io::BlockingByteArrayInputStream` (p. 569), `decaf::io::BufferedInputStream` (p. 635), `decaf::io::ByteArrayInputStream` (p. 719), `decaf::io::FilterInputStream` (p. 1318), and `decaf::net::SocketInputStream` (p. 2386).

6.270.3.4 `virtual int decaf::io::InputStream::read (unsigned char * buffer,
std::size_t offset, std::size_t bufferSize) throw (IOException,
lang::exceptions::NullPointerException) [pure virtual]`

Reads an array of bytes from the buffer. Blocks until the requested number of bytes are available.

Parameters:

buffer (out) the target buffer.

offset the position in the buffer to start reading from.

bufferSize the size of the output buffer.

Returns:

The number of bytes read or -1 if EOF is detected

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException if buffer is null

Implemented in `activemq::io::LoggingInputStream` (p. 1633), `decaf::internal::io::StandardInputStream` (p. 2406), `decaf::io::BlockingByteArrayInputStream` (p. 569), `decaf::io::BufferedInputStream` (p. 635), `decaf::io::ByteArrayInputStream` (p. 719), `decaf::io::DataInputStream` (p. 1118), `decaf::io::FilterInputStream` (p. 1319), and `decaf::net::SocketInputStream` (p. 2387).

6.270.3.5 `virtual unsigned char decaf::io::InputStream::read () throw (IOException
) [pure virtual]`

Reads a single byte from the buffer. Blocks until data is available.

Returns:

The next byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implemented in `activemq::io::LoggingInputStream` (p. 1634), `decaf::internal::io::StandardInputStream` (p. 2406), `decaf::io::BlockingByteArrayInputStream` (p. 570), `decaf::io::BufferedInputStream` (p. 636), `decaf::io::ByteArrayInputStream` (p. 720), `decaf::io::FilterInputStream` (p. 1319), and `decaf::net::SocketInputStream` (p. 2387).

6.270.3.6 `virtual void decaf::io::InputStream::reset () throw (IOException) [pure
virtual]`

Repositions this stream to the position at the time the mark method was last called on this input stream. If the method markSupported returns true, then: * If the method mark has not been called since the stream was created, or the number of bytes read from the stream since mark was last called is larger than the argument to mark at that last call, then an *IOException* (p. 1477)

might be thrown. * If such an **IOException** (p. 1477) is not thrown, then the stream is reset to a state such that all the bytes read since the most recent call to mark (or since the start of the file, if mark has not been called) will be resupplied to subsequent callers of the read method, followed by any bytes that otherwise would have been the next input data as of the time of the call to reset. If the method markSupported returns false, then: * The call to reset may throw an **IOException** (p. 1477). * If an **IOException** (p. 1477) is not thrown, then the stream is reset to a fixed state that depends on the particular type of the input stream and how it was created. The bytes that will be supplied to subsequent callers of the read method depend on the particular type of the input stream.

Exceptions:

IOException (p. 1477)

Implemented in **decaf::internal::io::StandardInputStream** (p. 2406), **decaf::io::BlockingByteArrayInputStream** (p. 570), **decaf::io::BufferedInputStream** (p. 636), **decaf::io::ByteArrayInputStream** (p. 720), **decaf::io::FilterInputStream** (p. 1320), and **decaf::net::SocketInputStream** (p. 2388).

6.270.3.7 virtual std::size_t decaf::io::InputStream::skip (std::size_t *num*) throw (io::IOException, lang::exceptions::UnsupportedOperationException)
[pure virtual]

Skips over and discards *n* bytes of data from this input stream. The skip method may, for a variety of reasons, end up skipping over some smaller number of bytes, possibly 0. This may result from any of a number of conditions; reaching end of file before *n* bytes have been skipped is only one possibility. The actual number of bytes skipped is returned. If *n* is negative, no bytes are skipped.

The skip method of **InputStream** (p. 1406) creates a byte array and then repeatedly reads into it until *n* bytes have been read or the end of the stream has been reached. Subclasses are encouraged to provide a more efficient implementation of this method.

Parameters:

num - the number of bytes to skip

Returns:

total bytes skipped

Exceptions:

IOException (p. 1477) if an error occurs

Implemented in **decaf::internal::io::StandardInputStream** (p. 2407), **decaf::io::BlockingByteArrayInputStream** (p. 571), **decaf::io::BufferedInputStream** (p. 636), **decaf::io::ByteArrayInputStream** (p. 721), **decaf::io::DataInputStream** (p. 1124), **decaf::io::FilterInputStream** (p. 1320), and **decaf::net::SocketInputStream** (p. 2388).

The documentation for this class was generated from the following file:

- src/main/decaf/io/**InputStream.h**

6.271 decaf::internal::nio::IntArrayBuffer Class Reference

#include <src/main/decaf/internal/nio/IntArrayBuffer.h> Inheritance diagram for decaf::internal::nio::IntArrayBuffer:

Public Member Functions

- **IntArrayBuffer** (std::size_t capacity, bool readOnly=false)
*Creates a **IntArrayBuffer** (p. 1410) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*
- **IntArrayBuffer** (int *array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::NullPointerException)
*Creates a **IntArrayBuffer** (p. 1410) object that wraps the given array.*
- **IntArrayBuffer** (ByteArrayPerspective &array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
*Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset.*
- **IntArrayBuffer** (const IntArrayBuffer &other)
*Create a **IntArrayBuffer** (p. 1410) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.*
- virtual ~**IntArrayBuffer** ()
- virtual int * **array** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the int array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual IntBuffer * **asReadOnlyBuffer** () const
Creates a new, read-only int buffer that shares this buffer's content.
- virtual IntBuffer & **compact** () throw (decaf::nio::ReadOnlyBufferException)
Compacts this buffer.
- virtual IntBuffer * **duplicate** ()
Creates a new int buffer that shares this buffer's content.
- virtual int **get** () throw (decaf::nio::BufferUnderflowException)
Relative get method.
- virtual int **get** (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)

Absolute get method.

- virtual bool **hasArray** () const
Tells whether or not this buffer is backed by an accessible int array.
- virtual bool **isReadOnly** () const
Tells whether or not this buffer is read-only.
- virtual IntBuffer & **put** (int value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the current position, and then increments the position.
- virtual IntBuffer & **put** (std::size_t index, int value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the given index.
- virtual IntBuffer * **slice** () const
Creates a new IntBuffer whose content is a shared subsequence of this buffer's content.

Protected Member Functions

- virtual void **setReadOnly** (bool value)
*Sets this *ByteArrayBuffer* (p. 694) as Read-Only.*

6.271.1 Constructor & Destructor Documentation

6.271.1.1 decaf::internal::nio::IntArrayBuffer::IntArrayBuffer (std::size_t capacity, bool readOnly = false)

Creates a **IntArrayBuffer** (p. 1410) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.
readOnly - should this buffer be read-only, default as false

6.271.1.2 decaf::internal::nio::IntArrayBuffer::IntArrayBuffer (int * array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::NullPointerException)

Creates a **IntArrayBuffer** (p. 1410) object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

offset - the position that is this buffers start pos.

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

Exceptions:

NullPointerException if buffer is NULL

6.271.1.3 `decaf::internal::nio::IntArrayBuffer::IntArrayBuffer (ByteArrayPerspective & array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)`

Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset. The capacity and limit of the new **IntArrayBuffer** (p. 1410) will be that of the remaining capacity of the passed buffer.

Parameters:

array - the **ByteArrayPerspective** (p. 729) to wrap

offset - the offset into array where the buffer starts

capacity - the length of the array we are wrapping or limit.

readOnly - is this a readOnly buffer.

Exceptions:

IndexOutOfBoundsException if offset is greater than array capacity.

6.271.1.4 `decaf::internal::nio::IntArrayBuffer::IntArrayBuffer (const IntArrayBuffer & other)`

Create a **IntArrayBuffer** (p. 1410) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.

Parameters:

other - the **IntArrayBuffer** (p. 1410) this one is to mirror.

6.271.1.5 `virtual decaf::internal::nio::IntArrayBuffer::~~IntArrayBuffer () [virtual]`

6.271.2 Member Function Documentation

6.271.2.1 `virtual int* decaf::internal::nio::IntArrayBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the int array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this Buffer

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::IntBuffer** (p. 1419).

6.271.2.2 `virtual std::size_t decaf::internal::nio::IntArrayBuffer::arrayOffset ()
throw (decaf::lang::exceptions::UnsupportedOperationException,
decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::IntBuffer** (p. 1420).

6.271.2.3 `virtual IntBuffer* decaf::internal::nio::IntArrayBuffer::asReadOnlyBuffer
() const [virtual]`

Creates a new, read-only int buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only int buffer which the caller then owns.

Implements **decaf::nio::IntBuffer** (p. 1420).

6.271.2.4 `virtual IntBuffer& decaf::internal::nio::IntArrayBuffer::compact () throw
(decaf::nio::ReadOnlyBufferException) [virtual]`

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index `p = position()` (p. 631) is copied

to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index **limit()** (p. 631) - 1 is copied to index $n = \text{limit}() - 1 - p$. The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this `IntBuffer`

Exceptions:

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::IntBuffer** (p. 1420).

6.271.2.5 `virtual IntBuffer* decaf::internal::nio::IntArrayBuffer::duplicate ()`
[virtual]

Creates a new int buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new int Buffer which the caller owns.

Implements **decaf::nio::IntBuffer** (p. 1421).

6.271.2.6 `virtual int decaf::internal::nio::IntArrayBuffer::get (std::size_t index)`
`const throw (lang::exceptions::IndexOutOfBoundsException)` [virtual]

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the Buffer where the int is to be read

Returns:

the int that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::IntBuffer** (p. 1422).

6.271.2.7 `virtual int decaf::internal::nio::IntArrayBuffer::get () throw (`
`decaf::nio::BufferUnderflowException)` [virtual]

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the int at the current position

Exceptions:

BufferUnderflowException if there no more data to return

Implements **decaf::nio::IntBuffer** (p. 1423).

6.271.2.8 virtual bool decaf::internal::nio::IntArrayBuffer::hasArray () const
[inline, virtual]

Tells whether or not this buffer is backed by an accessible int array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implements **decaf::nio::IntBuffer** (p. 1423).

6.271.2.9 virtual bool decaf::internal::nio::IntArrayBuffer::isReadOnly () const
[inline, virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::Buffer** (p. 630).

6.271.2.10 virtual IntBuffer& decaf::internal::nio::IntArrayBuffer::put (std::size_t index, int value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes the given doubles into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the doubles to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::IntBuffer** (p. 1424).

6.271.2.11 `virtual IntBuffer& decaf::internal::nio::IntArrayBuffer::put (int value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)` [virtual]

Writes the given doubles into this buffer at the current position, and then increments the position.

Parameters:

value - the doubles value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException - If this buffer is read-only

Implements `decaf::nio::IntBuffer` (p. 1424).

6.271.2.12 `virtual void decaf::internal::nio::IntArrayBuffer::setReadOnly (bool value)` [inline, protected, virtual]

Sets this `ByteBuffer` (p. 694) as Read-Only.

Parameters:

value - true if this buffer is to be read-only.

6.271.2.13 `virtual IntBuffer* decaf::internal::nio::IntArrayBuffer::slice () const` [virtual]

Creates a new `IntBuffer` whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create `IntBuffer` which the caller owns.

Implements `decaf::nio::IntBuffer` (p. 1426).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/nio/IntArrayBuffer.h`

6.272 decaf::nio::IntBuffer Class Reference

This class defines four categories of operations upon int buffers:.

#include <src/main/decaf/nio/IntBuffer.h>Inheritance diagram for decaf::nio::IntBuffer:

Public Member Functions

- virtual **~IntBuffer** ()
- virtual std::string **toString** () const
- virtual int * **array** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the int array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual **IntBuffer** * **asReadOnlyBuffer** () const =0
Creates a new, read-only int buffer that shares this buffer's content.
- virtual **IntBuffer** & **compact** ()=0 throw (ReadOnlyBufferException)
Compacts this buffer.
- virtual **IntBuffer** * **duplicate** ()=0
Creates a new int buffer that shares this buffer's content.
- virtual int **get** ()=0 throw (BufferUnderflowException)
Relative get method.
- virtual int **get** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- **IntBuffer** & **get** (std::vector< int > buffer) throw (BufferUnderflowException)
Relative bulk get method.
- **IntBuffer** & **get** (int *buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)
Relative bulk get method.
- virtual bool **hasArray** () const =0
Tells whether or not this buffer is backed by an accessible int array.
- **IntBuffer** & **put** (**IntBuffer** &src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)
This method transfers the ints remaining in the given source buffer into this buffer.

- **IntBuffer** & **put** (const int *buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)
This method transfers ints into this buffer from the given source array.
- **IntBuffer** & **put** (std::vector< int > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)
This method transfers the entire content of the given source ints array into this buffer.
- virtual **IntBuffer** & **put** (int value)=0 throw (BufferOverflowException, ReadOnlyBufferException)
Writes the given ints into this buffer at the current position, and then increments the position.
- virtual **IntBuffer** & **put** (std::size_t index, int value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)
Writes the given ints into this buffer at the given index.
- virtual **IntBuffer** * **slice** () const =0
*Creates a new **IntBuffer** (p. 1417) whose content is a shared subsequence of this buffer's content.*
- virtual int **compareTo** (const **IntBuffer** &value) const
Compares this object with the specified object for order.
- virtual bool **equals** (const **IntBuffer** &value) const
- virtual bool **operator==** (const **IntBuffer** &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **IntBuffer** &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static **IntBuffer** * **allocate** (std::size_t capacity)
Allocates a new Double buffer.
- static **IntBuffer** * **wrap** (int *array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)
*Wraps the passed buffer with a new **IntBuffer** (p. 1417).*
- static **IntBuffer** * **wrap** (std::vector< int > &buffer)
*Wraps the passed STL int Vector in a **IntBuffer** (p. 1417).*

Protected Member Functions

- **IntBuffer** (std::size_t capacity)
*Creates a **IntBuffer** (p. 1417) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*

6.272.1 Detailed Description

This class defines four categories of operations upon int buffers: o Absolute and relative get and put methods that read and write single ints; o Relative bulk get methods that transfer contiguous sequences of ints from this buffer into an array; and o Relative bulk put methods that transfer contiguous sequences of ints from a int array or some other int buffer into this buffer o Methods for compacting, duplicating, and slicing a int buffer.

Double buffers can be created either by allocation, which allocates space for the buffer's content, by wrapping an existing int array into a buffer, or by creating a view of an existing byte buffer

Methods in this class that do not otherwise have a value to return are specified to return the buffer upon which they are invoked. This allows method invocations to be chained.

6.272.2 Constructor & Destructor Documentation

6.272.2.1 decaf::nio::IntBuffer::IntBuffer (std::size_t *capacity*) [protected]

Creates a **IntBuffer** (p.1417) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size and limit of the **Buffer** (p.627) in doubles

6.272.2.2 virtual decaf::nio::IntBuffer::~~IntBuffer () [inline, virtual]

6.272.3 Member Function Documentation

6.272.3.1 static IntBuffer* decaf::nio::IntBuffer::allocate (std::size_t *capacity*) [static]

Allocates a new Double buffer. The new buffer's position will be zero, its limit will be its capacity, and its mark will be undefined. It will have a backing array, and its array offset will be zero.

Parameters:

capacity - The size of the Double buffer in ints

Returns:

the **IntBuffer** (p.1417) that was allocated, caller owns.

6.272.3.2 virtual int* decaf::nio::IntBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the int array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the hasArray method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this **Buffer** (p. 627)

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1412).

6.272.3.3 `virtual std::size_t decaf::nio::IntBuffer::arrayOffset () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1413).

6.272.3.4 `virtual IntBuffer* decaf::nio::IntBuffer::asReadOnlyBuffer () const [pure virtual]`

Creates a new, read-only int buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only int buffer which the caller then owns.

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1413).

6.272.3.5 `virtual IntBuffer& decaf::nio::IntBuffer::compact () throw (ReadOnlyBufferException) [pure virtual]`

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index `p = position()` (p. 631) is copied

to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index `limit()` (p. 631) - 1 is copied to index $n = \text{limit}() - 1 - p$. The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **IntBuffer** (p. 1417)

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1413).

6.272.3.6 virtual int decaf::nio::IntBuffer::compareTo (const IntBuffer & value) const [virtual]

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

6.272.3.7 virtual IntBuffer* decaf::nio::IntBuffer::duplicate () [pure virtual]

Creates a new int buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new int **Buffer** (p. 627) which the caller owns.

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1414).

6.272.3.8 virtual bool decaf::nio::IntBuffer::equals (const IntBuffer & value) const [virtual]**Returns:**

true if this value is considered equal to the passed value.

6.272.3.9 `IntBuffer& decaf::nio::IntBuffer::get (int * buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)`

Relative bulk get method. This method transfers ints from this buffer into the given destination array. If there are fewer ints remaining in the buffer than are required to satisfy the request, that is, if `length > remaining()` (p. 632), then no bytes are transferred and a **BufferUnderflowException** (p. 661) is thrown.

Otherwise, this method copies `length` ints from this buffer into the given array, starting at the current position of this buffer and at the given offset in the array. The position of this buffer is then incremented by `length`.

Parameters:

buffer - pointer to an allocated buffer to fill
offset - position in the buffer to start filling
length - amount of data to put in the passed buffer

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than `length` ints remaining in this buffer
NullPointerException if the passed buffer is null.

6.272.3.10 `IntBuffer& decaf::nio::IntBuffer::get (std::vector< int > buffer) throw (BufferUnderflowException)`

Relative bulk get method. This method transfers values from this buffer into the given destination vector. An invocation of this method of the form `src.get(a)` behaves in exactly the same way as the invocation. The vector must be sized to the amount of data that is to be read, that is to say, the caller should call `buffer.resize(N)` before calling this get method.

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than `length` ints remaining in this buffer

6.272.3.11 `virtual int decaf::nio::IntBuffer::get (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the **Buffer** (p. 627) where the int is to be read

Returns:

the int that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1414).

6.272.3.12 `virtual int decaf::nio::IntBuffer::get () throw (BufferUnderflowException) [pure virtual]`

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the int at the current position

Exceptions:

BufferUnderflowException (p. 661) if there no more data to return

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1414).

6.272.3.13 `virtual bool decaf::nio::IntBuffer::hasArray () const [pure virtual]`

Tells whether or not this buffer is backed by an accessible int array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1415).

6.272.3.14 `virtual bool decaf::nio::IntBuffer::operator< (const IntBuffer & value) const [virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.272.3.15 `virtual bool decaf::nio::IntBuffer::operator==(const IntBuffer & value) const` [virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.272.3.16 `virtual IntBuffer& decaf::nio::IntBuffer::put (std::size_t index, int value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes the given ints into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the ints to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::IntArrayBuffer` (p. 1415).

6.272.3.17 `virtual IntBuffer& decaf::nio::IntBuffer::put (int value) throw (BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes the given ints into this buffer at the current position, and then increments the position.

Parameters:

value - the ints value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in `decaf::internal::nio::IntArrayBuffer` (p. 1416).

6.272.3.18 IntBuffer& decaf::nio::IntBuffer::put (std::vector< int > & *buffer*) throw (BufferOverflowException, ReadOnlyBufferException)

This method transfers the entire content of the given source ints array into this buffer. This is the same as calling `put(&buffer[0], 0, buffer.size()`

Parameters:

buffer - The buffer whose contents are copied to this **IntBuffer** (p. 1417)

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.272.3.19 IntBuffer& decaf::nio::IntBuffer::put (const int * *buffer*, std::size_t *offset*, std::size_t *length*) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)

This method transfers ints into this buffer from the given source array. If there are more ints to be copied from the array than remain in this buffer, that is, if `length > remaining()` (p. 632), then no ints are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `length` bytes from the given array into this buffer, starting at the given `offset` in the array and at the current position of this buffer. The position of this buffer is then incremented by `length`.

Parameters:

buffer- The array from which ints are to be read

offset- The offset within the array of the first int to be read;

length - The number of ints to be read from the given array

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

NullPointerException if the passed buffer is null.

6.272.3.20 IntBuffer& decaf::nio::IntBuffer::put (IntBuffer & *src*) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)

This method transfers the ints remaining in the given source buffer into this buffer. If there are more ints remaining in the source buffer than in this buffer, that is, if `src.remaining() >`

remaining() (p. 632), then no ints are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `n = src.remaining()` ints from the given buffer into this buffer, starting at each buffer's current position. The positions of both buffers are then incremented by `n`.

Parameters:

src - the buffer to take ints from an place in this one.

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer for the remaining ints in the source buffer

IllegalArgumentException - If the source buffer is this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.272.3.21 `virtual IntBuffer* decaf::nio::IntBuffer::slice () const` [pure virtual]

Creates a new **IntBuffer** (p. 1417) whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **IntBuffer** (p. 1417) which the caller owns.

Implemented in **decaf::internal::nio::IntArrayBuffer** (p. 1416).

6.272.3.22 `virtual std::string decaf::nio::IntBuffer::toString () const` [virtual]

Returns:

a `std::string` describing this object

6.272.3.23 `static IntBuffer* decaf::nio::IntBuffer::wrap (std::vector< int > & buffer)` [static]

Wraps the passed STL int Vector in a **IntBuffer** (p. 1417). The new buffer will be backed by the given int array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new **IntBuffer** (p.1417) that is backed by *buffer*, caller owns.

6.272.3.24 `static IntBuffer* decaf::nio::IntBuffer::wrap (int *
array, std::size_t offset, std::size_t length) throw (
lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new **IntBuffer** (p.1417). The new buffer will be backed by the given int array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

array - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new **IntBuffer** (p.1417) that is backed by *buffer*, caller owns.

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/IntBuffer.h`

6.273 decaf::lang::Integer Class Reference

#include <src/main/decaf/lang/Integer.h> Inheritance diagram for decaf::lang::Integer:

Public Member Functions

- **Integer** (int value)
- **Integer** (const std::string &value) throw (exceptions::NumberFormatException)
- virtual ~**Integer** ()
- virtual int **compareTo** (const **Integer** &i) const
*Compares this **Integer** (p. 1428) instance with another.*
- bool **equals** (const **Integer** &i) const
- virtual bool **operator==** (const **Integer** &i) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Integer** &i) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual int **compareTo** (const int &i) const
*Compares this **Integer** (p. 1428) instance with another.*
- bool **equals** (const int &i) const
- virtual bool **operator==** (const int &i) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const int &i) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- std::string **toString** () const
- virtual double **doubleValue** () const
Answers the double value which the receiver represents.
- virtual float **floatValue** () const
Answers the float value which the receiver represents.
- virtual unsigned char **byteValue** () const
Answers the byte value which the receiver represents.
- virtual short **shortValue** () const
Answers the short value which the receiver represents.
- virtual int **intValue** () const
Answers the int value which the receiver represents.
- virtual long long **longValue** () const
Answers the long value which the receiver represents.

Static Public Member Functions

- static **Integer** **decode** (const std::string &value) throw (exceptions::NumberFormatException)
*Decodes a String into a **Integer** (p. 1428).*
- static int **reverseBytes** (int value)
Returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified int value.
- static int **reverse** (int value)
Returns the value obtained by reversing the order of the bits in the two's complement binary representation of the specified int value.
- static int **parseInt** (const std::string &s, int radix) throw (exceptions::NumberFormatException)
Parses the string argument as a signed int in the radix specified by the second argument.
- static int **parseInt** (const std::string &s) throw (exceptions::NumberFormatException)
Parses the string argument as a signed decimal int.
- static **Integer** **valueOf** (int value)
*Returns a **Integer** (p. 1428) instance representing the specified int value.*
- static **Integer** **valueOf** (const std::string &value) throw (exceptions::NumberFormatException)
*Returns a **Integer** (p. 1428) object holding the value given by the specified std::string.*
- static **Integer** **valueOf** (const std::string &value, int radix) throw (exceptions::NumberFormatException)
*Returns a **Integer** (p. 1428) object holding the value extracted from the specified std::string when parsed with the radix given by the second argument.*
- static int **bitCount** (int value)
Returns the number of one-bits in the two's complement binary representation of the specified int value.
- static std::string **toString** (int value)
Converts the int to a String representation.
- static std::string **toString** (int value, int radix)
Returns a string representation of the first argument in the radix specified by the second argument.
- static std::string **toHexString** (int value)
Returns a string representation of the integer argument as an unsigned integer in base 16.
- static std::string **toOctalString** (int value)
Returns a string representation of the integer argument as an unsigned integer in base 8.
- static std::string **toBinaryString** (int value)
Returns a string representation of the integer argument as an unsigned integer in base 2.

- static int **highestOneBit** (int value)
Returns an int value with at most a single one-bit, in the position of the highest-order ("leftmost") one-bit in the specified int value.
- static int **lowestOneBit** (int value)
Returns an int value with at most a single one-bit, in the position of the lowest-order ("rightmost") one-bit in the specified int value.
- static int **numberOfLeadingZeros** (int value)
Returns the number of zero bits preceding the highest-order ("leftmost") one-bit in the two's complement binary representation of the specified int value.
- static int **numberOfTrailingZeros** (int value)
Returns the number of zero bits following the lowest-order ("rightmost") one-bit in the two's complement binary representation of the specified int value.
- static int **rotateLeft** (int value, int distance)
Returns the value obtained by rotating the two's complement binary representation of the specified int value left by the specified number of bits.
- static int **rotateRight** (int value, int distance)
Returns the value obtained by rotating the two's complement binary representation of the specified int value right by the specified number of bits.
- static int **signum** (int value)
Returns the signum function of the specified int value.

Static Public Attributes

- static const int **SIZE** = 32
The size in bits of the primitive int type.
- static const int **MAX_VALUE** = (int)0x7FFFFFFF
The maximum value that the primitive type can hold.
- static const int **MIN_VALUE** = (int)0x80000000
The minimum value that the primitive type can hold.

6.273.1 Constructor & Destructor Documentation

6.273.1.1 decaf::lang::Integer::Integer (int value)

Parameters:

value The primitive value to wrap in an Integer (p. 1428) instance.

6.273.1.2 decaf::lang::Integer::Integer (const std::string & *value*) throw (exceptions::NumberFormatException)

Parameters:

value The base 10 encoded string to decode to an `Integer` (p. 1428) and wrap.

Exceptions:

NumberFormatException

6.273.1.3 virtual decaf::lang::Integer::~~Integer () [inline, virtual]

6.273.2 Member Function Documentation

6.273.2.1 static int decaf::lang::Integer::bitCount (int *value*) [static]

Returns the number of one-bits in the two's complement binary representation of the specified int value. This function is sometimes referred to as the population count.

Parameters:

value - the int to count

Returns:

the number of one-bits in the two's complement binary representation of the specified int value.

6.273.2.2 virtual unsigned char decaf::lang::Integer::byteValue () const [inline, virtual]

Answers the byte value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from `decaf::lang::Number` (p. 1954).

6.273.2.3 virtual int decaf::lang::Integer::compareTo (const int & *i*) const [virtual]

Compares this `Integer` (p. 1428) instance with another.

Parameters:

i - the `Integer` (p. 1428) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

Implements `decaf::lang::Comparable< int >` (p. 899).

6.273.2.4 `virtual int decaf::lang::Integer::compareTo (const Integer & i) const`
[virtual]

Compares this **Integer** (p.1428) instance with another.

Parameters:

i - the **Integer** (p.1428) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

6.273.2.5 `static Integer decaf::lang::Integer::decode (const std::string & value)`
`throw (exceptions::NumberFormatException)` [static]

Decodes a String into a **Integer** (p.1428). Accepts decimal, hexadecimal, and octal numbers given by the following grammar:

The sequence of characters following an (optional) negative sign and/or radix specifier ("0x", "0X", "#", or leading zero) is parsed as by the Integer.parseInt method with the indicated radix (10, 16, or 8). This sequence of characters must represent a positive value or a NumberFormatException will be thrown. The result is negated if first character of the specified String is the minus sign. No whitespace characters are permitted in the string.

Parameters:

value - The string to decode

Returns:

a **Integer** (p.1428) object containing the decoded value

Exceptions:

NumberFormatException if the string is not formatted correctly.

6.273.2.6 `virtual double decaf::lang::Integer::doubleValue () const` [inline, virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.273.2.7 `bool decaf::lang::Integer::equals (const int & i) const` [inline, virtual]**Parameters:**

i - the **Integer** (p.1428) object to compare against.

Returns:

true if the two **Integer** (p.1428) Objects have the same value.

Implements **decaf::lang::Comparable**< **int** > (p.900).

6.273.2.8 bool decaf::lang::Integer::equals (const Integer & i) const [inline]**Parameters:**

i - the **Integer** (p.1428) object to compare against.

Returns:

true if the two **Integer** (p.1428) Objects have the same value.

6.273.2.9 virtual float decaf::lang::Integer::floatValue () const [inline, virtual]

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.273.2.10 static int decaf::lang::Integer::highestOneBit (int value) [static]

Returns an int value with at most a single one-bit, in the position of the highest-order ("leftmost") one-bit in the specified int value. Returns zero if the specified value has no one-bits in its two's complement binary representation, that is, if it is equal to zero.

Parameters:

value - the int to be inspected

Returns:

an int value with a single one-bit, in the position of the highest-order one-bit in the specified value, or zero if the specified value is itself equal to zero.

6.273.2.11 virtual int decaf::lang::Integer::intValue () const [inline, virtual]

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.273.2.12 `virtual long long decaf::lang::Integer::longValue () const [inline, virtual]`

Answers the long value which the receiver represents.

Returns:

long the value of the receiver.

Implements **decaf::lang::Number** (p. 1955).

6.273.2.13 `static int decaf::lang::Integer::lowestOneBit (int value) [static]`

Returns an int value with at most a single one-bit, in the position of the lowest-order ("rightmost") one-bit in the specified int value. Returns zero if the specified value has no one-bits in its two's complement binary representation, that is, if it is equal to zero.

Parameters:

value - the int to be inspected

Returns:

an int value with a single one-bit, in the position of the lowest-order one-bit in the specified value, or zero if the specified value is itself equal to zero.

6.273.2.14 `static int decaf::lang::Integer::numberOfLeadingZeros (int value) [static]`

Returns the number of zero bits preceding the highest-order ("leftmost") one-bit in the two's complement binary representation of the specified int value. Returns 32 if the specified value has no one-bits in its two's complement representation, in other words if it is equal to zero.

Note that this method is closely related to the logarithm base 2. For all positive int values x:

$\ast \text{floor}(\log_2(x)) = 31 - \text{numberOfLeadingZeros}(x) \ast \text{ceil}(\log_2(x)) = 32 - \text{numberOfLeadingZeros}(x - 1)$

Parameters:

value - the int to be inspected

Returns:

the number of zero bits preceding the highest-order ("leftmost") one-bit in the two's complement binary representation of the specified int value, or 32 if the value is equal to zero.

6.273.2.15 `static int decaf::lang::Integer::numberOfTrailingZeros (int value) [static]`

Returns the number of zero bits following the lowest-order ("rightmost") one-bit in the two's complement binary representation of the specified int value. Returns 32 if the specified value has no one-bits in its two's complement representation, in other words if it is equal to zero.

Parameters:

value - the int to be inspected

Returns:

the number of zero bits following the lowest-order ("rightmost") one-bit in the two's complement binary representation of the specified int value, or 32 if the value is equal to zero.

6.273.2.16 virtual bool decaf::lang::Integer::operator< (const int & i) const
[inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

i - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable< int >** (p. 900).

6.273.2.17 virtual bool decaf::lang::Integer::operator< (const Integer & i) const
[inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

i - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.273.2.18 virtual bool decaf::lang::Integer::operator== (const int & i) const
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

i - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable< int >** (p. 901).

6.273.2.19 `virtual bool decaf::lang::Integer::operator==(const Integer & i) const`
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

i - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.273.2.20 `static int decaf::lang::Integer::parseInt (const std::string & s) throw (`
`exceptions::NumberFormatException) [static]`

Parses the string argument as a signed decimal int. The characters in the string must all be decimal digits, except that the first character may be an ASCII minus sign '-' to indicate a negative value. The resulting int value is returned, exactly as if the argument and the radix 10 were given as arguments to the `parseInt(const std::string, int)` method.

Parameters:

s - String to convert to a int

Returns:

the converted int value

Exceptions:

NumberFormatException if the string is not a int.

6.273.2.21 `static int decaf::lang::Integer::parseInt (const std::string & s, int radix)`
`throw (exceptions::NumberFormatException) [static]`

Parses the string argument as a signed int in the radix specified by the second argument. The characters in the string must all be digits, of the specified radix (as determined by whether **Character.digit(char, int)** (p. 804) returns a nonnegative value) except that the first character may be an ASCII minus sign '-' to indicate a negative value. The resulting byte value is returned.

An exception of type *NumberFormatException* is thrown if any of the following situations occurs:
* The first argument is null or is a string of length zero. * The radix is either smaller than **Character.MIN_RADIX** (p. 808) or larger than **Character.MAX_RADIX** (p. 807). * Any character of the string is not a digit of the specified radix, except that the first character may be a minus sign '-' provided that the string is longer than length 1. * The value represented by the string is not a value of type int.

Parameters:

s - the String containing the int representation to be parsed

radix - the radix to be used while parsing s

Returns:

the int represented by the string argument in the specified radix.

Exceptions:

NumberFormatException - If String does not contain a parsable int.

6.273.2.22 static int decaf::lang::Integer::reverse (int *value*) [static]

Returns the value obtained by reversing the order of the bits in the two's complement binary representation of the specified int value.

Parameters:

value - the value whose bits are to be reversed

Returns:

the reversed bits int.

6.273.2.23 static int decaf::lang::Integer::reverseBytes (int *value*) [static]

Returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified int value.

Parameters:

value - the int whose bytes we are to reverse

Returns:

the reversed int.

6.273.2.24 static int decaf::lang::Integer::rotateLeft (int *value*, int *distance*) [static]

Returns the value obtained by rotating the two's complement binary representation of the specified int value left by the specified number of bits. (Bits shifted out of the left hand, or high-order, side reenter on the right, or low-order.)

Note that left rotation with a negative distance is equivalent to right rotation: `rotateLeft(val, -distance) == rotateRight(val, distance)`. Note also that rotation by any multiple of 32 is a no-op, so all but the last five bits of the rotation distance can be ignored, even if the distance is negative: `rotateLeft(val, distance) == rotateLeft(val, distance & 0x1F)`.

Parameters:

value - the int to be inspected

distance - the number of bits to rotate

Returns:

the value obtained by rotating the two's complement binary representation of the specified int value left by the specified number of bits.

6.273.2.25 `static int decaf::lang::Integer::rotateRight (int value, int distance)`
[static]

Returns the value obtained by rotating the two's complement binary representation of the specified int value right by the specified number of bits. (Bits shifted out of the right hand, or low-order, side reenter on the left, or high-order.)

Note that right rotation with a negative distance is equivalent to left rotation: `rotateRight(val, -distance) == rotateLeft(val, distance)`. Note also that rotation by any multiple of 32 is a no-op, so all but the last five bits of the rotation distance can be ignored, even if the distance is negative: `rotateRight(val, distance) == rotateRight(val, distance & 0x1F)`.

Parameters:

value - the int to be inspected

distance - the number of bits to rotate

Returns:

the value obtained by rotating the two's complement binary representation of the specified int value right by the specified number of bits.

6.273.2.26 `virtual short decaf::lang::Integer::shortValue () const` [inline, virtual]

Answers the short value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from `decaf::lang::Number` (p.1956).

6.273.2.27 `static int decaf::lang::Integer::signum (int value)` [static]

Returns the signum function of the specified int value. (The return value is -1 if the specified value is negative; 0 if the specified value is zero; and 1 if the specified value is positive.)

Parameters:

value - the int to be inspected

Returns:

the signum function of the specified int value.

6.273.2.28 `static std::string decaf::lang::Integer::toBinaryString (int value)`
[static]

Returns a string representation of the integer argument as an unsigned integer in base 2. The unsigned integer value is the argument plus 2^{32} if the argument is negative; otherwise it is equal to the argument. This value is converted to a string of ASCII digits in binary (base 2) with no extra leading 0s. If the unsigned magnitude is zero, it is represented by a single zero character '0'; otherwise, the first character of the representation of the unsigned magnitude will not be the zero character.

The characters '0' and '1' are used as binary digits.

Parameters:

value - the int to be translated to a binary string

Returns:

the unsigned int value as a binary string

6.273.2.29 static std::string decaf::lang::Integer::toHexString (int *value*) [static]

Returns a string representation of the integer argument as an unsigned integer in base 16. The unsigned integer value is the argument plus 2^{32} if the argument is negative; otherwise, it is equal to the argument. This value is converted to a string of ASCII digits in hexadecimal (base 16) with no extra leading 0s. If the unsigned magnitude is zero, it is represented by a single zero character '0'; otherwise, the first character of the representation of the unsigned magnitude will not be the zero character. The following characters are used as hexadecimal digits:

0123456789abcdef

If uppercase letters are desired, the toUpperCase() method may be called on the result:

Parameters:

value - the int to be translated to an Octal string

Returns:

the unsigned int value as a Octal string

6.273.2.30 static std::string decaf::lang::Integer::toOctalString (int *value*) [static]

Returns a string representation of the integer argument as an unsigned integer in base 8. The unsigned integer value is the argument plus 2^{32} if the argument is negative; otherwise, it is equal to the argument. This value is converted to a string of ASCII digits in octal (base 8) with no extra leading 0s.

If the unsigned magnitude is zero, it is represented by a single zero character '0'; otherwise, the first character of the representation of the unsigned magnitude will not be the zero character. The following characters are used as octal digits:

01234567

Parameters:

value - the int to be translated to an Octal string

Returns:

the unsigned int value as a Octal string

6.273.2.31 static std::string decaf::lang::Integer::toString (int *value*, int *radix*) [static]

Returns a string representation of the first argument in the radix specified by the second argument. If the radix is smaller than **Character.MIN_RADIX** (p.808) or larger than **Character.MAX_RADIX** (p.807), then the radix 10 is used instead.

If the first argument is negative, the first element of the result is the ASCII minus character '-'. If the first argument is not negative, no sign character appears in the result.

The remaining characters of the result represent the magnitude of the first argument. If the magnitude is zero, it is represented by a single zero character '0'; otherwise, the first character of the representation of the magnitude will not be the zero character. The following ASCII characters are used as digits:

0123456789abcdefghijklmnopqrstuvwxyz

Parameters:

value - the int to convert to a string

radix - the radix to format the string in

Returns:

an int formatted to the string value of the radix given.

6.273.2.32 `static std::string decaf::lang::Integer::toString (int value) [static]`

Converts the int to a String representation.

Parameters:

value The int to convert to a `std::string` instance.

Returns:

string representation

6.273.2.33 `std::string decaf::lang::Integer::toString () const`

Returns:

this `Integer` (p. 1428) Object as a String Representation

6.273.2.34 `static Integer decaf::lang::Integer::valueOf (const std::string & value, int radix) throw (exceptions::NumberFormatException) [static]`

Returns a **Integer** (p. 1428) object holding the value extracted from the specified `std::string` when parsed with the radix given by the second argument. The first argument is interpreted as representing a signed int in the radix specified by the second argument, exactly as if the argument were given to the `parseInt(std::string, int)` method. The result is a **Integer** (p. 1428) object that represents the int value specified by the string.

Parameters:

value - `std::string` to parse as base (*radix*)

radix - base of the string to parse.

Returns:

new **Integer** (p. 1428) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a valid int.

6.273.2.35 static Integer decaf::lang::Integer::valueOf (const std::string & value)
throw (exceptions::NumberFormatException) [static]

Returns a **Integer** (p. 1428) object holding the value given by the specified std::string. The argument is interpreted as representing a signed decimal int, exactly as if the argument were given to the parseInt(std::string) method. The result is a **Integer** (p. 1428) object that represents the int value specified by the string.

Parameters:

value - std::string to parse as base 10

Returns:

new **Integer** (p. 1428) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a decimal int.

6.273.2.36 static Integer decaf::lang::Integer::valueOf (int value) [inline, static]

Returns a **Integer** (p. 1428) instance representing the specified int value.

Parameters:

value - the int to wrap

Returns:

the new **Integer** (p. 1428) object wrapping value.

6.273.3 Field Documentation

6.273.3.1 const int decaf::lang::Integer::MAX_VALUE = (int)0x7FFFFFFF [static]

The maximum value that the primitive type can hold.

6.273.3.2 const int decaf::lang::Integer::MIN_VALUE = (int)0x80000000 [static]

The minimum value that the primitive type can hold.

6.273.3.3 const int decaf::lang::Integer::SIZE = 32 [static]

The size in bits of the primitive int type.

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**Integer.h**

6.274 activemq::commands::IntegerResponse Class Reference

#include <src/main/activemq/commands/IntegerResponse.h> Inheritance diagram for activemq::commands::IntegerResponse:

Public Member Functions

- **IntegerResponse** ()
- virtual **~IntegerResponse** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **IntegerResponse * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual int **getResult** () const
- virtual void **setResult** (int result)

Static Public Attributes

- static const unsigned char **ID_INTEGERRESPONSE** = 34

Protected Member Functions

- **IntegerResponse** (const **IntegerResponse** &)
- **IntegerResponse & operator=** (const **IntegerResponse** &)

Protected Attributes

- int **result**

6.274.1 Constructor & Destructor Documentation

6.274.1.1 `activemq::commands::IntegerResponse::IntegerResponse (const IntegerResponse &) [inline, protected]`

6.274.1.2 `activemq::commands::IntegerResponse::IntegerResponse ()`

6.274.1.3 `virtual activemq::commands::IntegerResponse::~~IntegerResponse () [virtual]`

6.274.2 Member Function Documentation

6.274.2.1 `virtual IntegerResponse* activemq::commands::IntegerResponse::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::Response` (p. 2232).

6.274.2.2 `virtual void activemq::commands::IntegerResponse::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::Response` (p. 2232).

6.274.2.3 `virtual bool activemq::commands::IntegerResponse::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::Response` (p. 2232).

6.274.2.4 `virtual unsigned char activemq::commands::IntegerResponse::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Reimplemented from **activemq::commands::Response** (p. 2233).

6.274.2.5 `virtual int activemq::commands::IntegerResponse::getResult () const`
[virtual]

6.274.2.6 `IntegerResponse& activemq::commands::IntegerResponse::operator=`
`(const IntegerResponse &) [inline, protected]`

Reimplemented from **activemq::commands::Response** (p. 2233).

6.274.2.7 `virtual void activemq::commands::IntegerResponse::setResult (int result)`
[virtual]

6.274.2.8 `virtual std::string activemq::commands::IntegerResponse::toString ()`
`const [virtual]`

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::Response** (p. 2233).

6.274.3 Field Documentation

6.274.3.1 `const unsigned char activemq::commands::IntegerResponse::ID_-`
`INTEGERRESPONSE = 34 [static]`

6.274.3.2 `int activemq::commands::IntegerResponse::result [protected]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/IntegerResponse.h`

6.275 activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p.1445).

#include <src/main/activemq/wireformat/openwire/marshal/v2/IntegerResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller:

Public Member Functions

- **IntegerResponseMarshaller** ()
- virtual **~IntegerResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.275.1 Detailed Description

Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p.1445). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.275.2 Constructor & Destructor Documentation

6.275.2.1 `activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::IntegerResponseMarshaller()` [inline]

6.275.2.2 `virtual activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::~~IntegerResponseMarshaller()` [inline, virtual]

6.275.3 Member Function Documentation

6.275.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.275.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.275.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2242).

6.275.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2243).

6.275.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller` (p. 2243).

6.275.3.6 virtual void activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2244).

6.275.3.7 virtual void activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller** (p. 2245).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**IntegerResponseMarshaller.h**

6.276 activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p.1449).

#include <src/main/activemq/wireformat/openwire/marshal/v1/IntegerResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller:

Public Member Functions

- **IntegerResponseMarshaller** ()
- virtual **~IntegerResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.276.1 Detailed Description

Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p.1449). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.276.2 Constructor & Destructor Documentation

6.276.2.1 `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::IntegerResponseMarshaller()` [inline]

6.276.2.2 `virtual activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::~~IntegerResponseMarshaller()` [inline, virtual]

6.276.3 Member Function Documentation

6.276.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.276.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller` (p. 2252).

6.276.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2252).

6.276.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2253).

6.276.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2253).

6.276.3.6 virtual void activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2254).

6.276.3.7 virtual void activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller** (p. 2255).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**IntegerResponseMarshaller.h**

6.277 activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p.1453).

#include <src/main/activemq/wireformat/openwire/marshal/v3/IntegerResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller:

Public Member Functions

- **IntegerResponseMarshaller** ()
- virtual **~IntegerResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.277.1 Detailed Description

Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p.1453). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.277.2 Constructor & Destructor Documentation

6.277.2.1 `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::IntegerResponseMarshaller()` [inline]

6.277.2.2 `virtual activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::~~IntegerResponseMarshaller()` [inline, virtual]

6.277.3 Member Function Documentation

6.277.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.277.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.277.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2247).

6.277.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.277.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller` (p. 2248).

6.277.3.6 virtual void activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2249).

6.277.3.7 virtual void activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller** (p. 2250).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**IntegerResponseMarshaller.h**

6.278 activemq::transport::mock::InternalCommandListener Class Reference

Listens for Commands sent from the **MockTransport** (p. 1910).

#include <src/main/activemq/transport/mock/InternalCommandListener.h>Inheritance diagram for activemq::transport::mock::InternalCommandListener:

Public Member Functions

- **InternalCommandListener** ()
- virtual **~InternalCommandListener** ()
- void **setTransport** (**MockTransport** *transport)
- void **setResponseBuilder** (const **Pointer**< **ResponseBuilder** > &responseBuilder)
- virtual void **onCommand** (const **Pointer**< **Command** > &command)
Event handler for the receipt of a command.
- void **run** ()
Default implementation of the run method - does nothing.

6.278.1 Detailed Description

Listens for Commands sent from the **MockTransport** (p. 1910). This class processes all outbound **commands** (p. 59) and sends responses that are constructed by calling the Protocol provided **ResponseBuilder** (p. 2235) and getting a set of Commands to send back into the **MockTransport** (p. 1910) as incoming Commands and Responses.

6.278.2 Constructor & Destructor Documentation

6.278.2.1 **activemq::transport::mock::InternalCommandListener::InternalCommandListener** ()

6.278.2.2 **virtual**
activemq::transport::mock::InternalCommandListener::~~InternalCommandListener
 () [virtual]

6.278.3 Member Function Documentation

6.278.3.1 **virtual void** **activemq::transport::mock::InternalCommandListener::onCommand** (const **Pointer**< **Command** > & *command*) [virtual]

Event handler for the receipt of a command. The **transport** (p. 67) passes off all received **commands** (p. 59) to its listeners, the listener then owns the Object. If there is no registered listener the **Transport** (p. 2608) deletes the command upon receipt.

Parameters:

command the received command object.

Implements **activemq::transport::TransportListener** (p. 2624).

6.278.3.2 `void activemq::transport::mock::InternalCommandListener::run ()`
[virtual]

Default implementation of the run method - does nothing.

Reimplemented from **decaf::lang::Thread** (p. 2545).

6.278.3.3 `void activemq::transport::mock::InternalCommandListener::setResponseBuilder`
`(const Pointer< ResponseBuilder > & responseBuilder)` [inline]

6.278.3.4 `void activemq::transport::mock::InternalCommandListener::setTransport`
`(MockTransport * transport)` [inline]

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/mock/InternalCommandListener.h`

6.279 decaf::lang::exceptions::InterruptedException Class Reference

#include <src/main/decaf/lang/exceptions/InterruptedException.h> Inheritance diagram for decaf::lang::exceptions::InterruptedException:

Public Member Functions

- **InterruptedException** () throw ()
Default Constructor.
- **InterruptedException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **InterruptedException** (const **InterruptedException** &ex) throw ()
Copy Constructor.
- **InterruptedException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **InterruptedException** (const std::exception *cause) throw ()
Constructor.
- **InterruptedException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **InterruptedException** * **clone** () const
Clones this exception.
- virtual ~**InterruptedException** () throw ()

6.279.1 Constructor & Destructor Documentation

6.279.1.1 decaf::lang::exceptions::InterruptedException::InterruptedException () throw () [inline]

Default Constructor.

6.279.1.2 decaf::lang::exceptions::InterruptedException::InterruptedException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.279.1.3 `decaf::lang::exceptions::InterruptedException::InterruptedException` `(const InterruptedException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.279.1.4 `decaf::lang::exceptions::InterruptedException::InterruptedException` `(const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.279.1.5 `decaf::lang::exceptions::InterruptedException::InterruptedException` `(const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.279.1.6 `decaf::lang::exceptions::InterruptedException::InterruptedException` `(const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.279.1.7 virtual
 decaf::lang::exceptions::InterruptedException::~~InterruptedException ()
 throw () [inline, virtual]

6.279.2 Member Function Documentation

6.279.2.1 virtual InterruptedException* de-
 cafe::lang::exceptions::InterruptedException::clone () const
 [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**InterruptedException.h**

6.280 decaf::io::InterruptedIOException Class Reference

#include <src/main/decaf/io/InterruptedIOException.h> Inheritance diagram for decaf::io::InterruptedIOException:

Public Member Functions

- **InterruptedIOException** () throw ()
Default Constructor.
- **InterruptedIOException** (const lang::Exception &ex) throw ()
Copy Constructor.
- **InterruptedIOException** (const InterruptedIOException &ex) throw ()
Copy Constructor.
- **InterruptedIOException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **InterruptedIOException** (const std::exception *cause) throw ()
Constructor.
- **InterruptedIOException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor.
- virtual **InterruptedIOException** * clone () const
Clones this exception.
- virtual ~**InterruptedIOException** () throw ()

6.280.1 Constructor & Destructor Documentation

6.280.1.1 decaf::io::InterruptedIOException::InterruptedIOException () throw () [inline]

Default Constructor.

6.280.1.2 decaf::io::InterruptedIOException::InterruptedIOException (const lang::Exception & ex) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy

6.280.1.3 decaf::io::InterruptedIOException::InterruptedIOException (const InterruptedIOException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy, which is an instance of this type

6.280.1.4 decaf::io::InterruptedIOException::InterruptedIOException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.280.1.5 decaf::io::InterruptedIOException::InterruptedIOException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.280.1.6 decaf::io::InterruptedIOException::InterruptedIOException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor.

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.280.1.7 `virtual decaf::io::InterruptedIOException::~~InterruptedIOException ()
throw () [inline, virtual]`

6.280.2 Member Function Documentation

6.280.2.1 `virtual InterruptedIOException* decaf::io::InterruptedIOException::clone
() const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new exception that is a copy of this one.

Reimplemented from **decaf::io::IOException** (p. 1479).

Reimplemented in **decaf::net::SocketTimeoutException** (p. 2397).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/InterruptedIOException.h`

6.281 cms::InvalidClientIdException Class Reference

This exception must be thrown when a client attempts to set a connection's client ID to a value that is rejected by a provider.

#include <src/main/cms/InvalidClientIdException.h> Inheritance diagram for cms::InvalidClientIdException:

Public Member Functions

- **InvalidClientIdException** () throw ()
- **InvalidClientIdException** (const **InvalidClientIdException** &ex) throw ()
- **InvalidClientIdException** (const std::string &message, const std::exception *cause) throw ()
- **InvalidClientIdException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**InvalidClientIdException** () throw ()

6.281.1 Detailed Description

This exception must be thrown when a client attempts to set a connection's client ID to a value that is rejected by a provider.

Since:

1.3

6.281.2 Constructor & Destructor Documentation

- 6.281.2.1 **cms::InvalidClientIdException::InvalidClientIdException** () throw ()
- 6.281.2.2 **cms::InvalidClientIdException::InvalidClientIdException** (const **InvalidClientIdException** & *ex*) throw ()
- 6.281.2.3 **cms::InvalidClientIdException::InvalidClientIdException** (const std::string & *message*, const std::exception * *cause*) throw ()
- 6.281.2.4 **cms::InvalidClientIdException::InvalidClientIdException** (const std::string & *message*, const std::exception * *cause*, const std::vector< std::pair< std::string, int > > & *stackTrace*) throw ()
- 6.281.2.5 virtual **cms::InvalidClientIdException::~InvalidClientIdException** () throw () [virtual]

The documentation for this class was generated from the following file:

- src/main/cms/**InvalidClientIdException.h**

6.282 cms::InvalidDestinationException Class Reference

This exception must be thrown when a destination either is not understood by a provider or is no longer valid.

#include <src/main/cms/InvalidDestinationException.h> Inheritance diagram for cms::InvalidDestinationException:

Public Member Functions

- **InvalidDestinationException** () throw ()
- **InvalidDestinationException** (const **InvalidDestinationException** &ex) throw ()
- **InvalidDestinationException** (const std::string &message, const std::exception *cause) throw ()
- **InvalidDestinationException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**InvalidDestinationException** () throw ()

6.282.1 Detailed Description

This exception must be thrown when a destination either is not understood by a provider or is no longer valid.

Since:

1.3

6.282.2 Constructor & Destructor Documentation

- 6.282.2.1 **cms::InvalidDestinationException::InvalidDestinationException** () throw ()
- 6.282.2.2 **cms::InvalidDestinationException::InvalidDestinationException** (const **InvalidDestinationException** & *ex*) throw ()
- 6.282.2.3 **cms::InvalidDestinationException::InvalidDestinationException** (const std::string & *message*, const std::exception * *cause*) throw ()
- 6.282.2.4 **cms::InvalidDestinationException::InvalidDestinationException** (const std::string & *message*, const std::exception * *cause*, const std::vector< std::pair< std::string, int > > & *stackTrace*) throw ()
- 6.282.2.5 virtual **cms::InvalidDestinationException::~~InvalidDestinationException** () throw () [virtual]

The documentation for this class was generated from the following file:

- src/main/cms/**InvalidDestinationException.h**

6.283 decaf::security::InvalidKeyException Class Reference

#include <src/main/decaf/security/InvalidKeyException.h> Inheritance diagram for decaf::security::InvalidKeyException:

Public Member Functions

- **InvalidKeyException** () throw ()
Default Constructor.
- **InvalidKeyException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **InvalidKeyException** (const **InvalidKeyException** &ex) throw ()
Copy Constructor.
- **InvalidKeyException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **InvalidKeyException** (const std::exception *cause) throw ()
Constructor.
- **InvalidKeyException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **InvalidKeyException** * clone () const
Clones this exception.
- virtual ~**InvalidKeyException** () throw ()

6.283.1 Constructor & Destructor Documentation

6.283.1.1 decaf::security::InvalidKeyException::InvalidKeyException () throw () [inline]

Default Constructor.

6.283.1.2 decaf::security::InvalidKeyException::InvalidKeyException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.283.1.3 decaf::security::InvalidKeyException::InvalidKeyException (const InvalidKeyException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.283.1.4 decaf::security::InvalidKeyException::InvalidKeyException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.283.1.5 decaf::security::InvalidKeyException::InvalidKeyException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.283.1.6 decaf::security::InvalidKeyException::InvalidKeyException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.283.1.7 virtual decaf::security::InvalidKeyException::~~InvalidKeyException ()
throw () [inline, virtual]

6.283.2 Member Function Documentation

6.283.2.1 virtual InvalidKeyException* decaf::security::InvalidKeyException::clone
() const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from **decaf::security::KeyException** (p. 1574).

The documentation for this class was generated from the following file:

- src/main/decaf/security/**InvalidKeyException.h**

6.284 decaf::nio::InvalidMarkException Class Reference

#include <src/main/decaf/nio/InvalidMarkException.h> Inheritance diagram for decaf::nio::InvalidMarkException:

Public Member Functions

- **InvalidMarkException** () throw ()
Default Constructor.
- **InvalidMarkException** (const **lang::Exception** &ex) throw ()
Conversion Constructor from some other Exception.
- **InvalidMarkException** (const **InvalidMarkException** &ex) throw ()
Copy Constructor.
- **InvalidMarkException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **InvalidMarkException** (const std::exception *cause) throw ()
Constructor.
- **InvalidMarkException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **InvalidMarkException** * clone () const
Clones this exception.
- virtual ~**InvalidMarkException** () throw ()

6.284.1 Constructor & Destructor Documentation

6.284.1.1 decaf::nio::InvalidMarkException::InvalidMarkException () throw () [inline]

Default Constructor.

6.284.1.2 decaf::nio::InvalidMarkException::InvalidMarkException (const lang::Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex The Exception whose state data is to be copied into this Exception.

6.284.1.3 decaf::nio::InvalidMarkException::InvalidMarkException (const InvalidMarkException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex The Exception whose state data is to be copied into this Exception.

6.284.1.4 decaf::nio::InvalidMarkException::InvalidMarkException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.284.1.5 decaf::nio::InvalidMarkException::InvalidMarkException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.284.1.6 decaf::nio::InvalidMarkException::InvalidMarkException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.284.1.7 `virtual decaf::nio::InvalidMarkException::~~InvalidMarkException ()
throw () [inline, virtual]`

6.284.2 Member Function Documentation

6.284.2.1 `virtual InvalidMarkException* decaf::nio::InvalidMarkException::clone ()
const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A new Exception instance that is a copy of this Exception.

Reimplemented from `decaf::lang::exceptions::IllegalStateException` (p. 1402).

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/InvalidMarkException.h`

6.285 cms::InvalidSelectorException Class Reference

This exception must be thrown when a CMS client attempts to give a provider a message selector with invalid syntax.

#include <src/main/cms/InvalidSelectorException.h> Inheritance diagram for cms::InvalidSelectorException:

Public Member Functions

- **InvalidSelectorException** () throw ()
- **InvalidSelectorException** (const **InvalidSelectorException** &ex) throw ()
- **InvalidSelectorException** (const std::string &message, const std::exception *cause) throw ()
- **InvalidSelectorException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**InvalidSelectorException** () throw ()

6.285.1 Detailed Description

This exception must be thrown when a CMS client attempts to give a provider a message selector with invalid syntax.

Since:

1.3

6.285.2 Constructor & Destructor Documentation

- 6.285.2.1 **cms::InvalidSelectorException::InvalidSelectorException** () throw ()
- 6.285.2.2 **cms::InvalidSelectorException::InvalidSelectorException** (const **InvalidSelectorException** & *ex*) throw ()
- 6.285.2.3 **cms::InvalidSelectorException::InvalidSelectorException** (const std::string & *message*, const std::exception * *cause*) throw ()
- 6.285.2.4 **cms::InvalidSelectorException::InvalidSelectorException** (const std::string & *message*, const std::exception * *cause*, const std::vector< std::pair< std::string, int > > & *stackTrace*) throw ()
- 6.285.2.5 virtual **cms::InvalidSelectorException::~InvalidSelectorException** () throw () [virtual]

The documentation for this class was generated from the following file:

- src/main/cms/**InvalidSelectorException.h**

6.286 decaf::lang::exceptions::InvalidStateException Class Reference

#include <src/main/decaf/lang/exceptions/InvalidStateException.h> Inheritance diagram for decaf::lang::exceptions::InvalidStateException:

Public Member Functions

- **InvalidStateException** () throw ()
Default Constructor.
- **InvalidStateException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **InvalidStateException** (const **InvalidStateException** &ex) throw ()
Copy Constructor.
- **InvalidStateException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **InvalidStateException** (const std::exception *cause) throw ()
Constructor.
- **InvalidStateException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **InvalidStateException** * clone () const
Clones this exception.
- virtual ~**InvalidStateException** () throw ()

6.286.1 Constructor & Destructor Documentation

6.286.1.1 decaf::lang::exceptions::InvalidStateException::InvalidStateException () throw () [inline]

Default Constructor.

6.286.1.2 decaf::lang::exceptions::InvalidStateException::InvalidStateException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.286.1.3 decaf::lang::exceptions::InvalidStateException::InvalidStateException (const InvalidStateException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.286.1.4 decaf::lang::exceptions::InvalidStateException::InvalidStateException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.286.1.5 decaf::lang::exceptions::InvalidStateException::InvalidStateException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.286.1.6 decaf::lang::exceptions::InvalidStateException::InvalidStateException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.286.1.7 **virtual**
decaf::lang::exceptions::InvalidStateException::~InvalidStateException ()
throw () [inline, virtual]

6.286.2 Member Function Documentation

6.286.2.1 **virtual InvalidStateException* de-**
caf::lang::exceptions::InvalidStateException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**InvalidStateException.h**

6.287 decaf::io::IOException Class Reference

#include <src/main/decaf/io/IOException.h> Inheritance diagram for decaf::io::IOException:

Public Member Functions

- **IOException** () throw ()
Default Constructor.
- **IOException** (const lang::Exception &ex) throw ()
Copy Constructor.
- **IOException** (const IOException &ex) throw ()
Copy Constructor.
- **IOException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **IOException** (const std::exception *cause) throw ()
Constructor.
- **IOException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor.
- virtual **IOException** * clone () const
Clones this exception.
- virtual ~**IOException** () throw ()

6.287.1 Constructor & Destructor Documentation

6.287.1.1 decaf::io::IOException::IOException () throw () [inline]

Default Constructor.

6.287.1.2 decaf::io::IOException::IOException (const lang::Exception & ex) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy

6.287.1.3 `decaf::io::IOException::IOException (const IOException & ex) throw ()` [inline]

Copy Constructor.

Parameters:

ex the exception to copy, which is an instance of this type

6.287.1.4 `decaf::io::IOException::IOException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw ()` [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.287.1.5 `decaf::io::IOException::IOException (const std::exception * cause) throw ()` [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.287.1.6 `decaf::io::IOException::IOException (const char * file, const int lineNumber, const char * msg, ...) throw ()` [inline]

Constructor.

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.287.1.7 `virtual decaf::io::IOException::~~IOException () throw () [inline, virtual]`

6.287.2 Member Function Documentation

6.287.2.1 `virtual IOException* decaf::io::IOException::clone () const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new instance of an Exception that is a copy of this instance.

Reimplemented from `decaf::lang::Exception` (p. 1271).

Reimplemented in `decaf::io::EOFException` (p. 1267), `decaf::io::InterruptedIOException` (p. 1464), `decaf::io::UTFDataFormatException` (p. 2685), `decaf::net::BindException` (p. 565), `decaf::net::ConnectException` (p. 940), `decaf::net::HttpRetryException` (p. 1392), `decaf::net::MalformedURLException` (p. 1688), `decaf::net::NoRouteToHostException` (p. 1941), `decaf::net::PortUnreachableException` (p. 2039), `decaf::net::ProtocolException` (p. 2152), `decaf::net::SocketException` (p. 2380), `decaf::net::SocketTimeoutException` (p. 2397), `decaf::net::UnknownHostException` (p. 2631), and `decaf::net::UnknownServiceException` (p. 2634).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/IOException.h`

6.288 activemq::transport::IOTransport Class Reference

Implementation of the **Transport** (p. 2608) interface that performs marshaling of **commands** (p. 59) to IO streams.

#include <src/main/activemq/transport/IOTransport.h> Inheritance diagram for activemq::transport::IOTransport:

Public Member Functions

- **IOTransport** ()
Default Constructor.
- **IOTransport** (const **Pointer**< **wireformat::WireFormat** > &wireFormat)
*Create an instance of this **Transport** (p. 2608) and assign its **WireFormat** instance at creation time.*
- virtual ~**IOTransport** ()
- virtual void **oneway** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends a one-way command.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Not supported by this class - throws an exception.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Not supported by this class - throws an exception.
- virtual void **setWireFormat** (const **Pointer**< **wireformat::WireFormat** > &wireFormat)
*Sets the **WireFormat** instance to use.*
- virtual void **setTransportListener** (**TransportListener** *listener)
*Sets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).*
- virtual **TransportListener** * **getTransportListener** () const
*Gets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).*
- virtual void **setInputStream** (decaf::io::DataInputStream *is)
*Sets the input stream for in-coming **commands** (p. 59).*
- virtual void **setOutputStream** (decaf::io::DataOutputStream *os)
*Sets the output stream for out-going **commands** (p. 59).*
- virtual void **start** () throw (cms::CMSException)

Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59).

- virtual void **close** () throw (cms::CMSException)
Stops the polling thread and closes the streams.
- virtual void **run** ()
Runs the polling thread.
- virtual **Transport * narrow** (const std::type_info &typeId)
*Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.*
- virtual bool **isFaultTolerant** () const
*Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.*
- virtual bool **isConnected** () const
*Is the **Transport** (p. 2608) Connected to its Broker.*
- virtual bool **isClosed** () const
*Has the **Transport** (p. 2608) been shutdown and no longer usable.*
- virtual std::string **getRemoteAddress** () const
- virtual void **reconnect** (const decaf::net::URI &uri AMQCPP_UNUSED) throw (decaf::io::IOException)
reconnect to another location

6.288.1 Detailed Description

Implementation of the **Transport** (p. 2608) interface that performs marshaling of **commands** (p. 59) to IO streams. This class does not implement the request method, it only handles oneway messages. A thread polls on the input stream for in-coming **commands** (p. 59). When a command is received, the command listener is notified. The polling thread is not started until the start method is called. The close method will close the associated streams. Close can be called explicitly by the user, but is also called in the destructor. Once this object has been closed, it cannot be restarted.

6.288.2 Constructor & Destructor Documentation

6.288.2.1 activemq::transport::IOTransport::IOTransport ()

Default Constructor.

6.288.2.2 activemq::transport::IOTransport::IOTransport (const Pointer< wireformat::WireFormat > & wireFormat)

Create an instance of this **Transport** (p. 2608) and assign its WireFormat instance at creation time.

Parameters:

wireFormat Data encoder / decoder to use when reading and writing.

6.288.2.3 `virtual activemq::transport::IOTransport::~IOTransport ()` [virtual]

6.288.3 Member Function Documentation

6.288.3.1 `virtual void activemq::transport::IOTransport::close () throw (cms::CMSException)` [virtual]

Stops the polling thread and closes the streams. This can be called explicitly, but is also called in the destructor. Once this object has been closed, it cannot be restarted.

Exceptions:

CMSException if errors occur.

Implements `cms::Closeable` (p. 838).

6.288.3.2 `virtual std::string activemq::transport::IOTransport::getRemoteAddress () const` [inline, virtual]

Returns:

the remote address for this connection

Implements `activemq::transport::Transport` (p. 2609).

6.288.3.3 `virtual TransportListener* activemq::transport::IOTransport::getTransportListener () const` [inline, virtual]

Gets the observer of asynchronous `exceptions` (p. 62) from this `transport` (p. 67).

Returns:

The listener of `transport` (p. 67) events.

Implements `activemq::transport::Transport` (p. 2609).

6.288.3.4 `virtual bool activemq::transport::IOTransport::isClosed () const` [inline, virtual]

Has the `Transport` (p. 2608) been shutdown and no longer usable.

Returns:

true if the `Transport` (p. 2608)

Implements `activemq::transport::Transport` (p. 2609).

6.288.3.5 virtual bool activemq::transport::IOTransport::isConnected () const [inline, virtual]

Is the **Transport** (p. 2608) Connected to its Broker.

Returns:

true if a connection has been made.

Implements **activemq::transport::Transport** (p. 2610).

6.288.3.6 virtual bool activemq::transport::IOTransport::isFaultTolerant () const [inline, virtual]

Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.

Returns:

true if the **Transport** (p. 2608) is fault tolerant.

Implements **activemq::transport::Transport** (p. 2610).

6.288.3.7 virtual Transport* activemq::transport::IOTransport::narrow (const std::type_info & *typeId*) [inline, virtual]

Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.

Parameters:

typeId - The type_info of the Object we are searching for.

Returns:

the requested Object. or NULL if its not in this chain.

Implements **activemq::transport::Transport** (p. 2610).

6.288.3.8 virtual void activemq::transport::IOTransport::oneway (const Pointer< Command > & *command*) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Sends a one-way command. Does not wait for any response from the broker.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2610).

6.288.3.9 virtual void activemq::transport::IOTransport::reconnect
 (const decaf::net::URI &uri *AMQCPP_UNUSED*) throw (
 decaf::io::IOException) [inline, virtual]

reconnect to another location

Parameters:

uri

Exceptions:

IOException on failure of if not supported

6.288.3.10 virtual Pointer<Response> activemq::transport::IOTransport::request
 (const Pointer< Command > & *command*, unsigned
 int *timeout*) throw (decaf::io::IOException,
 decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Not supported by this class - throws an exception.

Parameters:

command the command to be sent.

timeout the time to wait for a response.

Returns:

the response to the command sent.

Exceptions:

UnsupportedOperationException.

Implements **activemq::transport::Transport** (p. 2611).

6.288.3.11 virtual Pointer<Response> activemq::transport::IOTransport::request
 (const Pointer< Command > & *command*)
 throw (decaf::io::IOException, de-
 caf::lang::exceptions::UnsupportedOperationException)
 [virtual]

Not supported by this class - throws an exception.

Parameters:

command the command to be sent.

Returns:

the response to the command sent.

Exceptions:

UnsupportedOperationException.

Implements **activemq::transport::Transport** (p. 2612).

6.288.3.12 virtual void activemq::transport::IOTransport::run () [virtual]

Runs the polling thread.

Implements **decaf::lang::Runnable** (p. 2256).

6.288.3.13 virtual void activemq::transport::IOTransport::setInputStream (decaf::io::DataInputStream * *is*) [inline, virtual]

Sets the input stream for in-coming **commands** (p. 59).

Parameters:

is The input stream.

6.288.3.14 virtual void activemq::transport::IOTransport::setOutputStream (decaf::io::DataOutputStream * *os*) [inline, virtual]

Sets the output stream for out-going **commands** (p. 59).

Parameters:

os The output stream.

6.288.3.15 virtual void activemq::transport::IOTransport::setTransportListener (TransportListener * *listener*) [inline, virtual]

Sets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).

Parameters:

listener the listener of **transport** (p. 67) events.

Implements **activemq::transport::Transport** (p. 2612).

6.288.3.16 virtual void activemq::transport::IOTransport::setWireFormat (const Pointer< wireformat::WireFormat > & *wireFormat*) [inline, virtual]

Sets the WireFormat instance to use.

Parameters:

wireFormat The WireFormat the object used to encode / decode **commands** (p. 59).

Implements **activemq::transport::Transport** (p. 2612).

6.288.3.17 virtual void activemq::transport::IOTransport::start () throw (cms::CMSException) [virtual]

Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59). If this object has been closed, throws an exception. Before calling start, the caller must set the IO streams and the reader and writer objects.

Exceptions:

CMSException if an error occurs or if this **transport** (p. 67) has already been closed.

Implements **cms::Startable** (p. 2413).

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/IOTransport.h`

6.289 decaf::lang::Iterable< E > Class Template Reference

Implementing this interface allows an object to be cast to an **Iterable** (p.1487) type for generic collections API calls.

#include <src/main/decaf/lang/Iterable.h> Inheritance diagram for decaf::lang::Iterable< E >:

Public Member Functions

- virtual **~Iterable** ()
- virtual **decaf::util::Iterator< E > * iterator** ()=0
- virtual **decaf::util::Iterator< E > * iterator** () const =0

6.289.1 Detailed Description

template<typename E> class decaf::lang::Iterable< E >

Implementing this interface allows an object to be cast to an **Iterable** (p.1487) type for generic collections API calls.

6.289.2 Constructor & Destructor Documentation

6.289.2.1 **template<typename E> virtual decaf::lang::Iterable< E >::~~Iterable** ()
[inline, virtual]

6.289.3 Member Function Documentation

6.289.3.1 **template<typename E> virtual decaf::util::Iterator<E>***
decaf::lang::Iterable< E >::iterator () const [pure virtual]

Implemented in **decaf::util::StlList< E >** (p.2425), **decaf::util::StlSet< E >** (p.2450), **decaf::util::StlList< CompositeTask * >** (p.2425), **decaf::util::StlList< URI >** (p.2425), **decaf::util::StlList< Pointer< DestinationInfo > >** (p.2425), **decaf::util::StlList< PrimitiveValueNode >** (p.2425), **decaf::util::StlList< Pointer< Command > >** (p.2425), **decaf::util::StlList< Pointer< BackupTransport > >** (p.2425), **decaf::util::StlSet< Pointer< Synchronization > >** (p.2450), and **decaf::util::StlSet< ActiveMQSession * >** (p.2450).

6.289.3.2 **template<typename E> virtual decaf::util::Iterator<E>***
decaf::lang::Iterable< E >::iterator () [pure virtual]

Returns:

an iterator over a set of elements of type T.

Implemented in **decaf::util::StlList< E >** (p.2425), **decaf::util::StlSet< E >** (p.2451), **decaf::util::StlList< CompositeTask * >** (p.2425), **decaf::util::StlList< URI >** (p.2425),

decaf::util::StlList< Pointer< DestinationInfo > > (p. 2425), **decaf::util::StlList< PrimitiveValueNode >** (p. 2425), **decaf::util::StlList< Pointer< Command > >** (p. 2425), **decaf::util::StlList< Pointer< BackupTransport > >** (p. 2425), **decaf::util::StlSet< Pointer< Synchronization > >** (p. 2451), and **decaf::util::StlSet< ActiveMQSession * >** (p. 2451).

Referenced by **decaf::util::AbstractCollection< Pointer< BackupTransport > >::clear()**, **decaf::util::AbstractCollection< Pointer< BackupTransport > >::contains()**, **decaf::util::AbstractCollection< Pointer< BackupTransport > >::copy()**, **decaf::util::AbstractCollection< Pointer< BackupTransport > >::operator=()**, **decaf::util::AbstractCollection< Pointer< BackupTransport > >::remove()**, **decaf::util::AbstractSet< ActiveMQSession * >::removeAll()**, **decaf::util::AbstractCollection< Pointer< BackupTransport > >::removeAll()**, **decaf::util::AbstractCollection< Pointer< BackupTransport > >::retainAll()**, and **decaf::util::AbstractCollection< Pointer< BackupTransport > >::toArray()**.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Iterable.h`

6.290 decaf::util::Iterator< T > Class Template Reference

Defines an object that can be used to iterate over the elements of a collection.

`#include <src/main/decaf/util/Iterator.h>` Inheritance diagram for `decaf::util::Iterator< T >`:

Public Member Functions

- virtual `~Iterator ()`
- virtual `T next ()=0 throw (lang::exceptions::NoSuchElementException)`
Returns the next element in the iteration.
- virtual `bool hasNext () const =0`
Returns true if the iteration has more elements.
- virtual `void remove ()=0 throw (lang::exceptions::IllegalStateException, lang::exceptions::UnsupportedOperationException)`
Removes from the underlying collection the last element returned by the iterator (optional operation).

6.290.1 Detailed Description

`template<typename T> class decaf::util::Iterator< T >`

Defines an object that can be used to iterate over the elements of a collection. The iterator provides a way to access and remove elements with well defined semantics.

6.290.2 Constructor & Destructor Documentation

6.290.2.1 `template<typename T> virtual decaf::util::Iterator< T >::~~Iterator ()`
`[inline, virtual]`

6.290.3 Member Function Documentation

6.290.3.1 `template<typename T> virtual bool decaf::util::Iterator< T >::hasNext () const` `[pure virtual]`

Returns true if the iteration has more elements. Returns false if the next call to `next` would result in an `NoSuchElementException` to be thrown.

6.290.3.2 `template<typename T> virtual T decaf::util::Iterator< T >::next ()`
`throw (lang::exceptions::NoSuchElementException)` `[pure virtual]`

Returns the next element in the iteration. Calling this method repeatedly until the `hasNext()` (p. 1489) method returns false will return each element in the underlying collection exactly once.

Returns:

next element in the iteration of elements

Exceptions:

NoSuchElementException - iteration has no more elements.

6.290.3.3 `template<typename T> virtual void decaf::util::Iterator< T
>::remove () throw (lang::exceptions::IllegalStateException,
lang::exceptions::UnsupportedOperationException) [pure virtual]`

Removes from the underlying collection the last element returned by the iterator (optional operation). This method can be called only once per call to next. The behavior of an iterator is unspecified if the underlying collection is modified while the iteration is in progress in any way other than by calling this method.

Exceptions:

UnsupportedOperationException - if the remove operation is not supported by this **Iterator** (p. 1489).

IllegalStateException - if the next method has not yet been called, or the remove method has already been called after the last call to the next method.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Iterator.h`

6.291 activemq::commands::JournalQueueAck Class Reference

#include <src/main/activemq/commands/JournalQueueAck.h> Inheritance diagram for activemq::commands::JournalQueueAck:

Public Member Functions

- **JournalQueueAck** ()
- virtual **~JournalQueueAck** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **JournalQueueAck * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual const **Pointer**< **MessageAck** > & **getMessageAck** () const
- virtual **Pointer**< **MessageAck** > & **getMessageAck** ()
- virtual void **setMessageAck** (const **Pointer**< **MessageAck** > &messageAck)

Static Public Attributes

- static const unsigned char **ID_JOURNALQUEUEACK** = 52

Protected Member Functions

- **JournalQueueAck** (const **JournalQueueAck** &)
- **JournalQueueAck** & **operator=** (const **JournalQueueAck** &)

Protected Attributes

- **Pointer**< **ActiveMQDestination** > **destination**
- **Pointer**< **MessageAck** > **messageAck**

6.291.1 Constructor & Destructor Documentation

- 6.291.1.1 `activemq::commands::JournalQueueAck::JournalQueueAck (const JournalQueueAck &) [inline, protected]`
- 6.291.1.2 `activemq::commands::JournalQueueAck::JournalQueueAck ()`
- 6.291.1.3 `virtual activemq::commands::JournalQueueAck::~~JournalQueueAck () [virtual]`

6.291.2 Member Function Documentation

- 6.291.2.1 `virtual JournalQueueAck* activemq::commands::JournalQueueAck::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

- 6.291.2.2 `virtual void activemq::commands::JournalQueueAck::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

- 6.291.2.3 `virtual bool activemq::commands::JournalQueueAck::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

- 6.291.2.4 `virtual unsigned char activemq::commands::JournalQueueAck::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new `DataStructure` (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p.1176).

- 6.291.2.5 **virtual** **Pointer**<**ActiveMQDestination**>& **activemq::commands::JournalQueueAck::getDestination** ()
[virtual]
- 6.291.2.6 **virtual const** **Pointer**<**ActiveMQDestination**>& **activemq::commands::JournalQueueAck::getDestination** () **const**
[virtual]
- 6.291.2.7 **virtual** **Pointer**<**MessageAck**>& **activemq::commands::JournalQueueAck::getMessageAck** ()
[virtual]
- 6.291.2.8 **virtual const** **Pointer**<**MessageAck**>& **activemq::commands::JournalQueueAck::getMessageAck** () **const**
[virtual]
- 6.291.2.9 **JournalQueueAck**& **activemq::commands::JournalQueueAck::operator=**
(**const JournalQueueAck** &) [inline, protected]
- 6.291.2.10 **virtual void** **activemq::commands::JournalQueueAck::setDestination**
(**const Pointer**< **ActiveMQDestination** > & *destination*) [virtual]
- 6.291.2.11 **virtual void** **activemq::commands::JournalQueueAck::setMessageAck**
(**const Pointer**< **MessageAck** > & *messageAck*) [virtual]
- 6.291.2.12 **virtual std::string** **activemq::commands::JournalQueueAck::toString** ()
const [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataStructure** (p.560).

6.291.3 Field Documentation

- 6.291.3.1 **Pointer**<**ActiveMQDestination**> **activemq::commands::JournalQueueAck::destination**
[protected]
- 6.291.3.2 **const unsigned char** **activemq::commands::JournalQueueAck::ID _-JOURNALQUEUEACK** = 52 [static]
- 6.291.3.3 **Pointer**<**MessageAck**> **activemq::commands::JournalQueueAck::messageAck**
[protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/`**JournalQueueAck.h**

6.292 activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p.1495).

#include <src/main/activemq/wireformat/openwire/marshal/v2/JournalQueueAckMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller:

Public Member Functions

- **JournalQueueAckMarshaller** ()
- virtual **~JournalQueueAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.292.1 Detailed Description

Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p.1495). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.292.2 Constructor & Destructor Documentation

6.292.2.1 `activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::JournalQueueAckMarshaller()` [inline]

6.292.2.2 `virtual activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::~~JournalQueueAckMarshaller()` [inline, virtual]

6.292.3 Member Function Documentation

6.292.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.292.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.292.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.292.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.292.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.292.3.6 virtual void activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.292.3.7 virtual void activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**JournalQueueAckMarshaller.h**

6.293 activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p.1499).

#include <src/main/activemq/wireformat/openwire/marshal/v1/JournalQueueAckMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller:

Public Member Functions

- **JournalQueueAckMarshaller** ()
- virtual **~JournalQueueAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.293.1 Detailed Description

Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p.1499). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.293.2 Constructor & Destructor Documentation

6.293.2.1 `activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::JournalQueueAckMarshaller()` [inline]

6.293.2.2 `virtual activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::~~JournalQueueAckMarshaller()` [inline, virtual]

6.293.3 Member Function Documentation

6.293.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.293.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.293.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.293.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.293.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.293.3.6 virtual void activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.293.3.7 virtual void activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**JournalQueueAckMarshaller.h**

6.294 activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p.1503).

#include <src/main/activemq/wireformat/openwire/marshal/v3/JournalQueueAckMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller:

Public Member Functions

- **JournalQueueAckMarshaller** ()
- virtual **~JournalQueueAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.294.1 Detailed Description

Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p.1503). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.294.2 Constructor & Destructor Documentation

6.294.2.1 `activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::JournalQueueAckMarshaller()` [inline]

6.294.2.2 `virtual activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::~~JournalQueueAckMarshaller()` [inline, virtual]

6.294.3 Member Function Documentation

6.294.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.294.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.294.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.294.3.4 virtual void **activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.294.3.5 virtual int **activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.294.3.6 virtual void activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.294.3.7 virtual void activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/JournalQueueAckMarshaller.h

6.295 activemq::commands::JournalTopicAck Class Reference

#include <src/main/activemq/commands/JournalTopicAck.h> Inheritance diagram for activemq::commands::JournalTopicAck:

Public Member Functions

- **JournalTopicAck** ()
- virtual **~JournalTopicAck** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **JournalTopicAck * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src) const
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual const **Pointer**< **MessageId** > & **getMessageId** () const
- virtual **Pointer**< **MessageId** > & **getMessageId** ()
- virtual void **setMessageId** (const **Pointer**< **MessageId** > &messageId)
- virtual long long **getMessageSequenceId** () const
- virtual void **setMessageSequenceId** (long long messageSequenceId)
- virtual const std::string & **getSubscriptionName** () const
- virtual std::string & **getSubscriptionName** ()
- virtual void **setSubscriptionName** (const std::string &subscriptionName)
- virtual const std::string & **getClientId** () const
- virtual std::string & **getClientId** ()
- virtual void **setClientId** (const std::string &clientId)
- virtual const **Pointer**< **TransactionId** > & **getTransactionId** () const
- virtual **Pointer**< **TransactionId** > & **getTransactionId** ()
- virtual void **setTransactionId** (const **Pointer**< **TransactionId** > &transactionId)

Static Public Attributes

- static const unsigned char **ID_JOURNALTOPICACK** = 50

Protected Member Functions

- **JournalTopicAck** (const **JournalTopicAck** &)
- **JournalTopicAck** & **operator=** (const **JournalTopicAck** &)

Protected Attributes

- **Pointer**< **ActiveMQDestination** > **destination**
- **Pointer**< **MessageId** > **messageId**
- long long **messageSequenceId**
- std::string **subscriptionName**
- std::string **clientId**
- **Pointer**< **TransactionId** > **transactionId**

6.295.1 Constructor & Destructor Documentation

- 6.295.1.1** **activemq::commands::JournalTopicAck::JournalTopicAck** (const **JournalTopicAck** &) [inline, protected]
- 6.295.1.2** **activemq::commands::JournalTopicAck::JournalTopicAck** ()
- 6.295.1.3** **virtual activemq::commands::JournalTopicAck::~~JournalTopicAck** () [virtual]

6.295.2 Member Function Documentation

- 6.295.2.1** **virtual JournalTopicAck* activemq::commands::JournalTopicAck::cloneDataStructure** () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

- 6.295.2.2** **virtual void activemq::commands::JournalTopicAck::copyDataStructure** (const **DataStructure** * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.295.2.3 virtual bool activemq::commands::JournalTopicAck::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.295.2.4 virtual std::string& activemq::commands::JournalTopicAck::getClientId () [virtual]

6.295.2.5 virtual const std::string& activemq::commands::JournalTopicAck::getClientId () const [virtual]

6.295.2.6 virtual unsigned char activemq::commands::JournalTopicAck::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.295.2.7 `virtual Pointer<ActiveMQDestination>& activemq::commands::JournalTopicAck::getDestination ()`
[virtual]
- 6.295.2.8 `virtual const Pointer<ActiveMQDestination>& activemq::commands::JournalTopicAck::getDestination () const`
[virtual]
- 6.295.2.9 `virtual Pointer<MessageId>& activemq::commands::JournalTopicAck::getMessageId ()`
[virtual]
- 6.295.2.10 `virtual const Pointer<MessageId>& activemq::commands::JournalTopicAck::getMessageId () const` [virtual]
- 6.295.2.11 `virtual long long activemq::commands::JournalTopicAck::getMessageSequenceId () const`
[virtual]
- 6.295.2.12 `virtual std::string& activemq::commands::JournalTopicAck::getSubscriptionName ()`
[virtual]
- 6.295.2.13 `virtual const std::string& activemq::commands::JournalTopicAck::getSubscriptionName () const`
[virtual]
- 6.295.2.14 `virtual Pointer<TransactionId>& activemq::commands::JournalTopicAck::getTransactionId ()`
[virtual]
- 6.295.2.15 `virtual const Pointer<TransactionId>& activemq::commands::JournalTopicAck::getTransactionId () const`
[virtual]
- 6.295.2.16 `JournalTopicAck& activemq::commands::JournalTopicAck::operator= (const JournalTopicAck &) [inline, protected]`
- 6.295.2.17 `virtual void activemq::commands::JournalTopicAck::setClientId (const std::string & clientId)` [virtual]
- 6.295.2.18 `virtual void activemq::commands::JournalTopicAck::setDestination (const Pointer< ActiveMQDestination > & destination)` [virtual]
- 6.295.2.19 `virtual void activemq::commands::JournalTopicAck::setMessageId (const Pointer< MessageId > & messageId)` [virtual]
- 6.295.2.20 `virtual void activemq::commands::JournalTopicAck::setMessageSequenceId (long long messageSequenceId)` [virtual]
- 6.295.2.21 `virtual void activemq::commands::JournalTopicAck::setSubscriptionName (const std::string & subscriptionName)` [virtual]
- 6.295.2.22 `virtual void activemq::commands::JournalTopicAck::setTransactionId (const Pointer< TransactionId > & transactionId)` [virtual]
- 6.295.2.23 `virtual std::string activemq::commands::JournalTopicAck::toString () const` [virtual]

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataStructure** (p. 560).

6.295.3 Field Documentation

6.295.3.1 `std::string activemq::commands::JournalTopicAck::clientId` [protected]

6.295.3.2 `Pointer<ActiveMQDestination> activemq::commands::JournalTopicAck::destination`
[protected]

6.295.3.3 `const unsigned char activemq::commands::JournalTopicAck::ID_ - JOURNALTOPICACK = 50` [static]

6.295.3.4 `Pointer<MessageId> activemq::commands::JournalTopicAck::messageId`
[protected]

6.295.3.5 `long long activemq::commands::JournalTopicAck::messageSequenceId`
[protected]

6.295.3.6 `std::string activemq::commands::JournalTopicAck::subscriptionName`
[protected]

6.295.3.7 `Pointer<TransactionId> activemq::commands::JournalTopicAck::transactionId`
[protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/JournalTopicAck.h`

6.296 activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p.1512).

#include <src/main/activemq/wireformat/openwire/marshal/v2/JournalTopicAckMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller:

Public Member Functions

- **JournalTopicAckMarshaller** ()
- virtual **~JournalTopicAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.296.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p.1512). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.296.2 Constructor & Destructor Documentation

6.296.2.1 `activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::JournalTopicAckMarshaller()` [inline]

6.296.2.2 `virtual activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::~~JournalTopicAckMarshaller()` [inline, virtual]

6.296.3 Member Function Documentation

6.296.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.296.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.296.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.296.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.296.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.296.3.6 virtual void activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.296.3.7 virtual void activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**JournalTopicAckMarshaller.h**

6.297 activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p.1516).

#include <src/main/activemq/wireformat/openwire/marshal/v3/JournalTopicAckMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller:

Public Member Functions

- **JournalTopicAckMarshaller** ()
- virtual **~JournalTopicAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.297.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p.1516). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.297.2 Constructor & Destructor Documentation

6.297.2.1 `activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::JournalTopicAckMarshaller()` [inline]

6.297.2.2 `virtual activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::~~JournalTopicAckMarshaller()` [inline, virtual]

6.297.3 Member Function Documentation

6.297.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.297.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.297.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.297.3.4 virtual void **activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - **BinaryReader** that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.297.3.5 virtual int **activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a **BooleanStream**.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - **BooleanStream** stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.297.3.6 virtual void activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.297.3.7 virtual void activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**JournalTopicAckMarshaller.h**

6.298 activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p.1520).

#include <src/main/activemq/wireformat/openwire/marshal/v1/JournalTopicAckMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller:

Public Member Functions

- **JournalTopicAckMarshaller** ()
- virtual **~JournalTopicAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.298.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p.1520). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.298.2 Constructor & Destructor Documentation

6.298.2.1 `activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::JournalTopicAckMarshaller()` [inline]

6.298.2.2 `virtual activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::~~JournalTopicAckMarshaller()` [inline, virtual]

6.298.3 Member Function Documentation

6.298.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.298.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.298.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.298.3.4 virtual void **activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - **BinaryReader** that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.298.3.5 virtual int **activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a **BooleanStream**.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - **BooleanStream** stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.298.3.6 virtual void activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.298.3.7 virtual void activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**JournalTopicAckMarshaller.h**

6.299 activemq::commands::JournalTrace Class Reference

#include <src/main/activemq/commands/JournalTrace.h> Inheritance diagram for activemq::commands::JournalTrace:

Public Member Functions

- **JournalTrace** ()
- virtual **~JournalTrace** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **JournalTrace * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const std::string & **getMessage** () const
- virtual std::string & **getMessage** ()
- virtual void **setMessage** (const std::string &message)

Static Public Attributes

- static const unsigned char **ID_JOURNALTRACE** = 53

Protected Member Functions

- **JournalTrace** (const **JournalTrace** &)
- **JournalTrace** & **operator=** (const **JournalTrace** &)

Protected Attributes

- std::string **message**

6.299.1 Constructor & Destructor Documentation

6.299.1.1 `activemq::commands::JournalTrace::JournalTrace (const JournalTrace &) [inline, protected]`

6.299.1.2 `activemq::commands::JournalTrace::JournalTrace ()`

6.299.1.3 `virtual activemq::commands::JournalTrace::~~JournalTrace () [virtual]`

6.299.2 Member Function Documentation

6.299.2.1 `virtual JournalTrace* activemq::commands::JournalTrace::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.299.2.2 `virtual void activemq::commands::JournalTrace::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.299.2.3 `virtual bool activemq::commands::JournalTrace::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

6.299.2.4 `virtual unsigned char activemq::commands::JournalTrace::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new `DataStructure` (p. 1174) type copy.

Implements `activemq::commands::DataStructure` (p. 1176).

- 6.299.2.5 `virtual std::string& activemq::commands::JournalTrace::getMessage ()`
[virtual]
- 6.299.2.6 `virtual const std::string& activemq::commands::JournalTrace::getMessage
() const` [virtual]
- 6.299.2.7 `JournalTrace& activemq::commands::JournalTrace::operator= (const
JournalTrace &)` [inline, protected]
- 6.299.2.8 `virtual void activemq::commands::JournalTrace::setMessage (const
std::string & message)` [virtual]
- 6.299.2.9 `virtual std::string activemq::commands::JournalTrace::toString () const`
[virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseDataStructure` (p.560).

6.299.3 Field Documentation

- 6.299.3.1 `const unsigned char activemq::commands::JournalTrace::ID_ -
JOURNALTRACE = 53` [static]
- 6.299.3.2 `std::string activemq::commands::JournalTrace::message` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/JournalTrace.h`

6.300 activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1527).

#include <src/main/activemq/wireformat/openwire/marshal/v2/JournalTraceMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller:

Public Member Functions

- **JournalTraceMarshaller** ()
- virtual **~JournalTraceMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.300.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1527). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.300.2 Constructor & Destructor Documentation

6.300.2.1 `activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::JournalTraceMarshaller()` [inline]

6.300.2.2 `virtual activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::~~JournalTraceMarshaller()` [inline, virtual]

6.300.3 Member Function Documentation

6.300.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.300.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaller.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.300.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.300.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - **BinaryReader** that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.300.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a **BooleanStream**.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - **BooleanStream** stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.300.3.6 virtual void activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.300.3.7 virtual void activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**JournalTraceMarshaller.h**

6.301 activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1531).

#include <src/main/activemq/wireformat/openwire/marshal/v3/JournalTraceMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller:

Public Member Functions

- **JournalTraceMarshaller** ()
- virtual **~JournalTraceMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.301.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1531). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.301.2 Constructor & Destructor Documentation

6.301.2.1 `activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::JournalTraceMarshaller()` [inline]

6.301.2.2 `virtual activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::~~JournalTraceMarshaller()` [inline, virtual]

6.301.3 Member Function Documentation

6.301.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.301.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.301.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.301.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.301.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.301.3.6 virtual void activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.301.3.7 virtual void activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**JournalTraceMarshaller.h**

6.302 activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1535).

#include <src/main/activemq/wireformat/openwire/marshal/v1/JournalTraceMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller:

Public Member Functions

- **JournalTraceMarshaller** ()
- virtual **~JournalTraceMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.302.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1535). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.302.2 Constructor & Destructor Documentation

6.302.2.1 `activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::JournalTraceMarshaller()` [inline]

6.302.2.2 `virtual activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::~~JournalTraceMarshaller()` [inline, virtual]

6.302.3 Member Function Documentation

6.302.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.302.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaller.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.302.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.302.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.302.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.302.3.6 virtual void activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.302.3.7 virtual void activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**JournalTraceMarshaller.h**

6.303 activemq::commands::JournalTransaction Class Reference

#include <src/main/activemq/commands/JournalTransaction.h> Inheritance diagram for activemq::commands::JournalTransaction:

Public Member Functions

- **JournalTransaction** ()
- virtual **~JournalTransaction** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **JournalTransaction * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **TransactionId** > & **getTransactionId** () const
- virtual **Pointer**< **TransactionId** > & **getTransactionId** ()
- virtual void **setTransactionId** (const **Pointer**< **TransactionId** > &transactionId)
- virtual unsigned char **getType** () const
- virtual void **setType** (unsigned char type)
- virtual bool **getWasPrepared** () const
- virtual void **setWasPrepared** (bool wasPrepared)

Static Public Attributes

- static const unsigned char **ID_JOURNALTRANSACTION** = 54

Protected Member Functions

- **JournalTransaction** (const **JournalTransaction** &)
- **JournalTransaction** & **operator=** (const **JournalTransaction** &)

Protected Attributes

- **Pointer**< TransactionId > **transactionId**
- unsigned char **type**
- bool **wasPrepared**

6.303.1 Constructor & Destructor Documentation

6.303.1.1 `activemq::commands::JournalTransaction::JournalTransaction (const JournalTransaction &) [inline, protected]`

6.303.1.2 `activemq::commands::JournalTransaction::JournalTransaction ()`

6.303.1.3 `virtual activemq::commands::JournalTransaction::~~JournalTransaction () [virtual]`

6.303.2 Member Function Documentation

6.303.2.1 `virtual JournalTransaction* activemq::commands::JournalTransaction::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.303.2.2 `virtual void activemq::commands::JournalTransaction::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.303.2.3 `virtual bool activemq::commands::JournalTransaction::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.303.2.4 virtual unsigned char activemq::commands::JournalTransaction::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

6.303.2.5 virtual Pointer<TransactionId>& activemq::commands::JournalTransaction::getTransactionId () [virtual]

6.303.2.6 virtual const Pointer<TransactionId>& activemq::commands::JournalTransaction::getTransactionId () const [virtual]

6.303.2.7 virtual unsigned char activemq::commands::JournalTransaction::getType () const [virtual]

6.303.2.8 virtual bool activemq::commands::JournalTransaction::getWasPrepared () const [virtual]

6.303.2.9 JournalTransaction& activemq::commands::JournalTransaction::operator= (const JournalTransaction &) [inline, protected]

6.303.2.10 virtual void activemq::commands::JournalTransaction::setTransactionId (const Pointer< TransactionId > & *transactionId*) [virtual]

6.303.2.11 virtual void activemq::commands::JournalTransaction::setType (unsigned char *type*) [virtual]

6.303.2.12 virtual void activemq::commands::JournalTransaction::setWasPrepared (bool *wasPrepared*) [virtual]

6.303.2.13 virtual std::string activemq::commands::JournalTransaction::toString () const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataStructure** (p. 560).

6.303.3 Field Documentation

- 6.303.3.1 `const unsigned char activemq::commands::JournalTransaction::ID - JOURNALTRANSACTION = 54` [static]
- 6.303.3.2 `Pointer<TransactionId> activemq::commands::JournalTransaction::transactionId` [protected]
- 6.303.3.3 `unsigned char activemq::commands::JournalTransaction::type` [protected]
- 6.303.3.4 `bool activemq::commands::JournalTransaction::wasPrepared` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/JournalTransaction.h`

6.304 activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p. 1543).

#include <src/main/activemq/wireformat/openwire/marshal/v2/JournalTransactionMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller:

Public Member Functions

- **JournalTransactionMarshaller** ()
- virtual **~JournalTransactionMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.304.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p.1543). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.304.2 Constructor & Destructor Documentation

6.304.2.1 `activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::JournalTrans`
`() [inline]`

6.304.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::~~JournalTran`
`() [inline, virtual]`

6.304.3 Member Function Documentation

6.304.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.304.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::getDataStructu`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.304.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure *`
`dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.304.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::looseUnmarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.304.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::tightMarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.304.3.6 virtual void activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.304.3.7 virtual void activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**JournalTransactionMarshaller.h**

6.305 activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p.1547).

#include <src/main/activemq/wireformat/openwire/marshal/v3/JournalTransactionMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller:

Public Member Functions

- **JournalTransactionMarshaller** ()
- virtual **~JournalTransactionMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.305.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p.1547). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.305.2 Constructor & Destructor Documentation

6.305.2.1 `activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::JournalTrans`
`() [inline]`

6.305.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::~~JournalTran`
`() [inline, virtual]`

6.305.3 Member Function Documentation

6.305.3.1 `virtual commands::DataStructure* ac-`
`tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::createObject`
`() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.305.3.2 `virtual unsigned char ac-`
`tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::getDataStructu`
`() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.305.3.3 `virtual void ac-`
`tivemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::looseMarshal`
`(OpenWireFormat * wireFormat, commands::DataStructure *`
`dataStructure, decaf::io::DataOutputStream * dataOut) throw (`
`decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.305.3.4 virtual void **activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::looseUnmarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.305.3.5 virtual int **activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::tightMarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.305.3.6 virtual void activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.305.3.7 virtual void activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**JournalTransactionMarshaller.h**

6.306 activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller Class Reference

Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p.1551).

#include <src/main/activemq/wireformat/openwire/marshal/v1/JournalTransactionMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller:

Public Member Functions

- **JournalTransactionMarshaller** ()
- virtual **~JournalTransactionMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.306.1 Detailed Description

Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p.1551). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.306.2 Constructor & Destructor Documentation

6.306.2.1 `activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::JournalTrans
() [inline]`

6.306.2.2 `virtual
activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::~~JournalTra
() [inline, virtual]`

6.306.3 Member Function Documentation

6.306.3.1 `virtual commands::DataStructure* ac-
tivemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::createObject
() const [virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.306.3.2 `virtual unsigned char ac-
tivemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::getDataStructu
() const [virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.306.3.3 `virtual void ac-
tivemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::looseMarshal
(OpenWireFormat * wireFormat, commands::DataStructure *
dataStructure, decaf::io::DataOutputStream * dataOut) throw (
decaf::io::IOException) [virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.306.3.4 virtual void **activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::looseUnmarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.306.3.5 virtual int **activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::tightMarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.306.3.6 virtual void activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.306.3.7 virtual void activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**JournalTransactionMarshaller.h**

6.307 activemq::commands::KeepAliveInfo Class Reference

#include <src/main/activemq/commands/KeepAliveInfo.h> Inheritance diagram for activemq::commands::KeepAliveInfo:

Public Member Functions

- **KeepAliveInfo** ()
- virtual **~KeepAliveInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **KeepAliveInfo** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual bool **isKeepAliveInfo** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID _KEEPALIVEINFO** = 10

Protected Member Functions

- **KeepAliveInfo** (const **KeepAliveInfo** &)
- **KeepAliveInfo** & **operator=** (const **KeepAliveInfo** &)

6.307.1 Constructor & Destructor Documentation

6.307.1.1 `activemq::commands::KeepAliveInfo::KeepAliveInfo (const KeepAliveInfo &) [inline, protected]`

6.307.1.2 `activemq::commands::KeepAliveInfo::KeepAliveInfo ()`

6.307.1.3 `virtual activemq::commands::KeepAliveInfo::~~KeepAliveInfo () [virtual]`

6.307.2 Member Function Documentation

6.307.2.1 `virtual KeepAliveInfo* activemq::commands::KeepAliveInfo::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.307.2.2 `virtual void activemq::commands::KeepAliveInfo::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.307.2.3 `virtual bool activemq::commands::KeepAliveInfo::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.307.2.4 `virtual unsigned char activemq::commands::KeepAliveInfo::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

6.307.2.5 `virtual bool activemq::commands::KeepAliveInfo::isKeepAliveInfo () const [inline, virtual]`

Returns:

an answer of true to the **isKeepAliveInfo()** (p. 1557) query.

Reimplemented from **activemq::commands::BaseCommand** (p. 510).

6.307.2.6 `KeepAliveInfo& activemq::commands::KeepAliveInfo::operator= (const KeepAliveInfo &) [inline, protected]`

6.307.2.7 `virtual std::string activemq::commands::KeepAliveInfo::toString () const [virtual]`

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.307.2.8 `virtual Pointer<Command> activemq::commands::KeepAliveInfo::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.307.3 Field Documentation

6.307.3.1 `const unsigned char activemq::commands::KeepAliveInfo::ID _ - KEEPALIVEINFO = 10 [static]`

The documentation for this class was generated from the following file:

- src/main/activemq/commands/**KeepAliveInfo.h**

6.308 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1558).

#include <src/main/activemq/wireformat/openwire/marshal/v3/KeepAliveInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller:

Public Member Functions

- **KeepAliveInfoMarshaller** ()
- virtual **~KeepAliveInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.308.1 Detailed Description

Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1558). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.308.2 Constructor & Destructor Documentation

6.308.2.1 `activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::KeepAliveInfoMarshaller()` [inline]

6.308.2.2 `virtual activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::~~KeepAliveInfoMarshaller()` [inline, virtual]

6.308.3 Member Function Documentation

6.308.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.308.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.308.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.308.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.308.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.308.3.6 virtual void activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.308.3.7 virtual void activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/KeepAliveInfoMarshaller.h

6.309 activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1562).

#include <src/main/activemq/wireformat/openwire/marshal/v2/KeepAliveInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller:

Public Member Functions

- **KeepAliveInfoMarshaller** ()
- virtual **~KeepAliveInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.309.1 Detailed Description

Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1562). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.309.2 Constructor & Destructor Documentation

6.309.2.1 `activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::KeepAliveInfoMarshaller()` `[inline]`

6.309.2.2 `virtual activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::~~KeepAliveInfoMarshaller()` `[inline, virtual]`

6.309.3 Member Function Documentation

6.309.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.309.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.309.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.309.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.309.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.309.3.6 virtual void activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.309.3.7 virtual void activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/KeepAliveInfoMarshaller.h

6.310 activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1566).

#include <src/main/activemq/wireformat/openwire/marshal/v1/KeepAliveInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller:

Public Member Functions

- **KeepAliveInfoMarshaller** ()
- virtual **~KeepAliveInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.310.1 Detailed Description

Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1566). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.310.2 Constructor & Destructor Documentation

6.310.2.1 `activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::KeepAliveInfoMarshaller()` [inline]

6.310.2.2 `virtual activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::~~KeepAliveInfoMarshaller()` [inline, virtual]

6.310.3 Member Function Documentation

6.310.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.310.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.310.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.310.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.310.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.310.3.6 virtual void activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.310.3.7 virtual void activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/KeepAliveInfoMarshaller.h

6.311 decaf::security::Key Class Reference

The **Key** (p. 1570) interface is the top-level interface for all keys.

#include <src/main/decaf/security/Key.h> Inheritance diagram for decaf::security::Key:

Public Member Functions

- virtual **~Key** ()
- virtual std::string **getAlgorithm** () const =0
Returns the standard algorithm name for this key.
- virtual void **getEncoded** (std::vector< unsigned char > &output) const =0
Provides the key in its primary encoding format, or nothing if this key does not support encoding.
- virtual std::string **getFormat** () const =0
Returns the name of the primary encoding format of this key, or an empty string if this key does not support encoding.

6.311.1 Detailed Description

The **Key** (p. 1570) interface is the top-level interface for all keys. It defines the functionality shared by all key objects. All keys have three characteristics:

An Algorithm

This is the key algorithm for that key. The key algorithm is usually an encryption or asymmetric operation algorithm (such as DSA or RSA), which will work with those algorithms and with related algorithms (such as MD5 with RSA, SHA-1 with RSA, Raw DSA, etc.) The name of the algorithm of a key is obtained using the getAlgorithm method.

An Encoded Form

This is an external encoded form for the key used when a standard representation of the key is needed outside the application, as when transmitting the key to some other party. The key is encoded according to a standard format (such as X.509 SubjectPublicKeyInfo or PKCS#8), and is returned using the getEncoded method. Note: The syntax of the ASN.1 type SubjectPublicKeyInfo is defined as follows:

```
SubjectPublicKeyInfo ::= SEQUENCE {
algorithm AlgorithmIdentifier,
subjectPublicKey BIT STRING }
AlgorithmIdentifier ::= SEQUENCE {
algorithm OBJECT IDENTIFIER,
parameters ANY DEFINED BY algorithm OPTIONAL }
```

For more information, see RFC 2459: Internet X.509 Public **Key** (p. 1570) Infrastructure Certificate and CRL Profile.

A Format

This is the name of the format of the encoded key. It is returned by the `getFormat` method.

6.311.2 Constructor & Destructor Documentation

6.311.2.1 `virtual decaf::security::Key::~~Key () [inline, virtual]`

6.311.3 Member Function Documentation

6.311.3.1 `virtual std::string decaf::security::Key::getAlgorithm () const [pure virtual]`

Returns the standard algorithm name for this key. For example, "DSA" would indicate that this key is a DSA key.

Returns:

the name of the algorithm associated with this key.

6.311.3.2 `virtual void decaf::security::Key::getEncoded (std::vector< unsigned char > & output) const [pure virtual]`

Provides the key in its primary encoding format, or nothing if this key does not support encoding.

Parameters:

output Receives the encoded key, or nothing if the key does not support encoding.

6.311.3.3 `virtual std::string decaf::security::Key::getFormat () const [pure virtual]`

Returns the name of the primary encoding format of this key, or an empty string if this key does not support encoding. The primary encoding format is named in terms of the appropriate ASN.1 data format, if an ASN.1 specification for this key exists. For example, the name of the ASN.1 data format for public keys is `SubjectPublicKeyInfo`, as defined by the X.509 standard; in this case, the returned format is "X.509". Similarly, the name of the ASN.1 data format for private keys is `PrivateKeyInfo`, as defined by the PKCS #8 standard; in this case, the returned format is "PKCS#8".

Returns:

the primary encoding format of the key.

The documentation for this class was generated from the following file:

- `src/main/decaf/security/Key.h`

6.312 decaf::security::KeyException Class Reference

`#include <src/main/decaf/security/KeyException.h>` Inheritance diagram for decaf::security::KeyException:

Public Member Functions

- **KeyException** () throw ()
Default Constructor.
- **KeyException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **KeyException** (const **KeyException** &ex) throw ()
Copy Constructor.
- **KeyException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **KeyException** (const std::exception *cause) throw ()
Constructor.
- **KeyException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **KeyException** * clone () const
Clones this exception.
- virtual ~**KeyException** () throw ()

6.312.1 Constructor & Destructor Documentation

6.312.1.1 decaf::security::KeyException::KeyException () throw () [inline]

Default Constructor.

6.312.1.2 decaf::security::KeyException::KeyException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.312.1.3 decaf::security::KeyException::KeyException (const KeyException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.312.1.4 decaf::security::KeyException::KeyException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.312.1.5 decaf::security::KeyException::KeyException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.312.1.6 decaf::security::KeyException::KeyException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.312.1.7 `virtual decaf::security::KeyException::~~KeyException () throw ()`
[inline, virtual]

6.312.2 Member Function Documentation

6.312.2.1 `virtual KeyException* decaf::security::KeyException::clone () const`
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from `decaf::security::GeneralSecurityException` (p. 1381).

Reimplemented in `decaf::security::InvalidKeyException` (p. 1469).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/KeyException.h`

6.313 activemq::commands::LastPartialCommand Class Reference

#include <src/main/activemq/commands/LastPartialCommand.h> Inheritance diagram for activemq::commands::LastPartialCommand:

Public Member Functions

- **LastPartialCommand** ()
- virtual **~LastPartialCommand** ()
- virtual unsigned char **getDataStructureType** () const

Get the unique identifier that this object and its own Marshaler share.

- virtual **LastPartialCommand * cloneDataStructure** () const

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

- virtual void **copyDataStructure** (const **DataStructure** *src)

Copy the contents of the passed object into this object's members, overwriting any existing data.

- virtual std::string **toString** () const

*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*

- virtual bool **equals** (const **DataStructure** *value) const

*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*

Static Public Attributes

- static const unsigned char **ID_LASTPARTIALCOMMAND** = 61

Protected Member Functions

- **LastPartialCommand** (const **LastPartialCommand** &)
- **LastPartialCommand** & **operator=** (const **LastPartialCommand** &)

6.313.1 Constructor & Destructor Documentation

6.313.1.1 `activemq::commands::LastPartialCommand::LastPartialCommand (const LastPartialCommand &) [inline, protected]`

6.313.1.2 `activemq::commands::LastPartialCommand::LastPartialCommand ()`

6.313.1.3 `virtual
activemq::commands::LastPartialCommand::~~LastPartialCommand ()
[virtual]`

6.313.2 Member Function Documentation

6.313.2.1 `virtual LastPartialCommand* activemq::commands::LastPartialCommand::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::PartialCommand` (p. 1996).

6.313.2.2 `virtual void activemq::commands::LastPartialCommand::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::PartialCommand` (p. 1996).

6.313.2.3 `virtual bool activemq::commands::LastPartialCommand::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

Reimplemented from `activemq::commands::PartialCommand` (p. 1996).

6.313.2.4 `virtual unsigned char activemq::commands::LastPartialCommand::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from **activemq::commands::PartialCommand** (p. 1997).

6.313.2.5 `LastPartialCommand& activemq::commands::LastPartialCommand::operator= (const LastPartialCommand &) [inline, protected]`

Reimplemented from **activemq::commands::PartialCommand** (p. 1997).

6.313.2.6 `virtual std::string activemq::commands::LastPartialCommand::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::PartialCommand** (p. 1997).

6.313.3 Field Documentation

6.313.3.1 `const unsigned char activemq::commands::LastPartialCommand::ID_LASTPARTIALCOMMAND = 61 [static]`

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/LastPartialCommand.h`

6.314 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1578).

#include <src/main/activemq/wireformat/openwire/marshal/v3/LastPartialCommandMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller:

Public Member Functions

- **LastPartialCommandMarshaller** ()
- virtual **~LastPartialCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.314.1 Detailed Description

Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1578).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.314.2 Constructor & Destructor Documentation

6.314.2.1 `activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::LastPartialCommandMarshaller()` [inline]

6.314.2.2 `virtual activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::~LastPartialCommandMarshaller()` [inline, virtual]

6.314.3 Member Function Documentation

6.314.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller` (p. 2004).

6.314.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller` (p. 2004).

6.314.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller` (p. 2004).

6.314.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller` (p. 2005).

6.314.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller` (p. 2005).

6.314.3.6 virtual void activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::tightMarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller** (p. 2006).

6.314.3.7 virtual void activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller** (p. 2006).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**LastPartialCommandMarshaller.h**

6.315 activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p.1582).

```
#include <src/main/activemq/wireformat/openwire/marshal/v1/LastPartialCommandMarshaller.h>
Inheritance diagram for activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller:
```

Public Member Functions

- **LastPartialCommandMarshaller** ()
- virtual **~LastPartialCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.315.1 Detailed Description

Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p.1582).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.315.2 Constructor & Destructor Documentation

6.315.2.1 `activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::LastPartialCommandMarshaller()` [inline]

6.315.2.2 `virtual activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::~~LastPartialCommandMarshaller()` [inline, virtual]

6.315.3 Member Function Documentation

6.315.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller` (p. 2008).

6.315.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaller.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller` (p. 2008).

6.315.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller` (p. 2008).

6.315.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller` (p. 2009).

6.315.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller` (p. 2009).

6.315.3.6 virtual void activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::tightMarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller** (p. 2010).

6.315.3.7 virtual void activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller** (p. 2010).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**LastPartialCommandMarshaller.h**

6.316 activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p.1586).

#include <src/main/activemq/wireformat/openwire/marshal/v2/LastPartialCommandMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller:

Public Member Functions

- **LastPartialCommandMarshaller** ()
- virtual **~LastPartialCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.316.1 Detailed Description

Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p.1586).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.316.2 Constructor & Destructor Documentation

6.316.2.1 `activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::LastPartialCommandMarshaller()` [inline]

6.316.2.2 `virtual activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::~LastPartialCommandMarshaller()` [inline, virtual]

6.316.3 Member Function Documentation

6.316.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller` (p. 2000).

6.316.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Reimplemented from `activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller` (p. 2000).

6.316.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller` (p. 2000).

6.316.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller` (p. 2001).

6.316.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller` (p. 2001).

6.316.3.6 virtual void activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::tightMarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller** (p. 2002).

6.316.3.7 virtual void activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller** (p. 2002).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**LastPartialCommandMarshaller.h**

6.317 std::less< decaf::lang::Pointer< T > > Struct Template Reference

An override of the less function object so that the Pointer objects can be stored in STL Maps, etc.

`#include <src/main/decaf/lang/Pointer.h>`Inheritance diagram for `std::less< decaf::lang::Pointer< T > >`:

Public Member Functions

- `bool operator() (const decaf::lang::Pointer< T > &left, const decaf::lang::Pointer< T > &right) const`

6.317.1 Detailed Description

`template<typename T> struct std::less< decaf::lang::Pointer< T > >`

An override of the less function object so that the Pointer objects can be stored in STL Maps, etc.

6.317.2 Member Function Documentation

6.317.2.1 `template<typename T > bool std::less< decaf::lang::Pointer< T > >::operator() (const decaf::lang::Pointer< T > & left, const decaf::lang::Pointer< T > & right) const` [inline]

References `decaf::lang::Pointer< T, REFCOUNTER >::get()`.

The documentation for this struct was generated from the following file:

- `src/main/decaf/lang/Pointer.h`

6.318 decaf::util::List< E > Class Template Reference

An ordered collection (also known as a sequence).

#include <src/main/decaf/util/List.h> Inheritance diagram for decaf::util::List< E >:

Public Member Functions

- virtual **~List** ()
- virtual **ListIterator**< E > * **listIterator** ()=0
- virtual **ListIterator**< E > * **listIterator** () const =0
- virtual **ListIterator**< E > * **listIterator** (std::size_t index)=0 throw (decaf::lang::exceptions::IndexOutOfBoundsException)
- virtual **ListIterator**< E > * **listIterator** (std::size_t index) const =0 throw (decaf::lang::exceptions::IndexOutOfBoundsException)
- virtual std::size_t **indexOf** (const E &value)=0 throw (decaf::lang::exceptions::NoSuchElementException)
Returns the index of the first occurrence of the specified element in this list, or -1 if this list does not contain the element.
- virtual std::size_t **lastIndexOf** (const E &value)=0 throw (decaf::lang::exceptions::NoSuchElementException)
Returns the index of the last occurrence of the specified element in this list, or -1 if this list does not contain the element.
- virtual E **get** (std::size_t index) const =0 throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Gets the element contained at position passed.
- virtual E **set** (std::size_t index, const E &element)=0 throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Replaces the element at the specified position in this list with the specified element.
- virtual void **add** (std::size_t index, const E &element)=0 throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException)
Inserts the specified element at the specified position in this list.
- virtual bool **addAll** (std::size_t index, const **Collection**< E > &source)=0 throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException)
Inserts all of the elements in the specified collection into this list at the specified position (optional operation).
- virtual E **remove** (std::size_t index)=0 throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException)
Removes the element at the specified position in this list.

6.318.1 Detailed Description

template<typename E> class decaf::util::List< E >

An ordered collection (also known as a sequence). The user of this interface has precise control over where in the list each element is inserted. The user can access elements by their integer index (position in the list), and search for elements in the list.

Unlike sets, lists typically allow duplicate elements. More formally, lists typically allow pairs of elements *e1* and *e2* such that *e1.equals(e2)*, and they typically allow multiple null elements if they allow null elements at all. It is not inconceivable that someone might wish to implement a list that prohibits duplicates, by throwing runtime exceptions when the user attempts to insert them, but we expect this usage to be rare.

6.318.2 Constructor & Destructor Documentation

6.318.2.1 **template<typename E> virtual decaf::util::List< E >::~~List ()** [inline, virtual]

6.318.3 Member Function Documentation

6.318.3.1 **template<typename E> virtual void decaf::util::List< E >::add (std::size_t *index*, const E & *element*) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException)** [pure virtual]

Inserts the specified element at the specified position in this list. Shifts the element currently at that position (if any) and any subsequent elements to the right (adds one to their indices).

Parameters:

index - index at which the specified element is to be inserted

element - element to be inserted

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

Implemented in **decaf::util::StlList< E >** (p. 2421), **decaf::util::StlList< CompositeTask * >** (p. 2421), **decaf::util::StlList< URI >** (p. 2421), **decaf::util::StlList< Pointer< DestinationInfo > >** (p. 2421), **decaf::util::StlList< PrimitiveValueNode >** (p. 2421), **decaf::util::StlList< Pointer< Command > >** (p. 2421), and **decaf::util::StlList< Pointer< BackupTransport > >** (p. 2421).

6.318.3.2 **template<typename E> virtual bool decaf::util::List< E >::addAll (std::size_t *index*, const Collection< E > & *source*) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException)** [pure virtual]

Inserts all of the elements in the specified collection into this list at the specified position (optional operation). Shifts the element currently at that position (if any) and any subsequent elements to

the right (increases their indices). The new elements will appear in this list in the order that they are returned by the specified collection's iterator. The behavior of this operation is undefined if the specified collection is modified while the operation is in progress. (Note that this will occur if the specified collection is this list, and it's nonempty.)

Parameters:

index The index at which to insert the first element from the specified collection
source The **Collection** (p. 871) containing elements to be added to this list

Returns:

true if this list changed as a result of the call

Exceptions:

IndexOutOfBoundsException - if the index is greater than size
UnsupportedOperationException - If the collection is non-modifiable.

Implemented in **decaf::util::StlList< E >** (p. 2422), **decaf::util::StlList< CompositeTask * >** (p. 2422), **decaf::util::StlList< URI >** (p. 2422), **decaf::util::StlList< Pointer< DestinationInfo > >** (p. 2422), **decaf::util::StlList< PrimitiveValueNode >** (p. 2422), **decaf::util::StlList< Pointer< Command > >** (p. 2422), and **decaf::util::StlList< Pointer< BackupTransport > >** (p. 2422).

6.318.3.3 `template<typename E> virtual E decaf::util::List< E >::get (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Gets the element contained at position passed.

Parameters:

index - position to get

Returns:

value at index

Implemented in **decaf::util::StlList< E >** (p. 2424), **decaf::util::StlList< CompositeTask * >** (p. 2424), **decaf::util::StlList< URI >** (p. 2424), **decaf::util::StlList< Pointer< DestinationInfo > >** (p. 2424), **decaf::util::StlList< PrimitiveValueNode >** (p. 2424), **decaf::util::StlList< Pointer< Command > >** (p. 2424), and **decaf::util::StlList< Pointer< BackupTransport > >** (p. 2424).

6.318.3.4 `template<typename E> virtual std::size_t decaf::util::List< E >::indexOf (const E & value) throw (decaf::lang::exceptions::NoSuchElementException) [pure virtual]`

Returns the index of the first occurrence of the specified element in this list, or -1 if this list does not contain the element. More formally, returns the lowest index i such that get(i) == value, or -1 if there is no such index.

Parameters:

value - element to search for

Returns:

the index of the first occurrence of the specified element in this list,

Exceptions:

NoSuchElementException if value is not in the list

Implemented in `decaf::util::StlList< E >` (p. 2424), `decaf::util::StlList< CompositeTask * >` (p. 2424), `decaf::util::StlList< URI >` (p. 2424), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2424), `decaf::util::StlList< PrimitiveValueNode >` (p. 2424), `decaf::util::StlList< Pointer< Command > >` (p. 2424), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2424).

6.318.3.5 `template<typename E> virtual size_t decaf::util::List< E >::lastIndexOf (const E & value) throw (decaf::lang::exceptions::NoSuchElementException) [pure virtual]`

Returns the index of the last occurrence of the specified element in this list, or -1 if this list does not contain the element. More formally, returns the highest index *i* such that `get(i) == value` or -1 if there is no such index.

Parameters:

value - element to search for

Returns:

the index of the last occurrence of the specified element in this list.

Exceptions:

NoSuchElementException if value is not in the list

Implemented in `decaf::util::StlList< E >` (p. 2425), `decaf::util::StlList< CompositeTask * >` (p. 2425), `decaf::util::StlList< URI >` (p. 2425), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2425), `decaf::util::StlList< PrimitiveValueNode >` (p. 2425), `decaf::util::StlList< Pointer< Command > >` (p. 2425), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2425).

6.318.3.6 `template<typename E> virtual ListIterator<E>* decaf::util::List< E >::listIterator (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Implemented in `decaf::util::StlList< E >` (p. 2425), `decaf::util::StlList< CompositeTask * >` (p. 2425), `decaf::util::StlList< URI >` (p. 2425), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2425), `decaf::util::StlList< PrimitiveValueNode >` (p. 2425), `decaf::util::StlList< Pointer< Command > >` (p. 2425), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2425).

6.318.3.7 `template<typename E> virtual ListIterator<E>*`
`decaf::util::List< E >::listIterator (std::size_t index) throw (`
`decaf::lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Parameters:

index index of first element to be returned from the list iterator (by a call to the next method).

Returns:

a list iterator of the elements in this list (in proper sequence), starting at the specified position in this list. The specified index indicates the first element that would be returned by an initial call to next. An initial call to previous would return the element with the specified index minus one.

Exceptions:

IndexOutOfBoundsException if the index is out of range (`index < 0 || index > size()` (p. 878))

Implemented in `decaf::util::StlList< E >` (p. 2426), `decaf::util::StlList< CompositeTask * >` (p. 2426), `decaf::util::StlList< URI >` (p. 2426), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2426), `decaf::util::StlList< PrimitiveValueNode >` (p. 2426), `decaf::util::StlList< Pointer< Command > >` (p. 2426), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2426).

6.318.3.8 `template<typename E> virtual ListIterator<E>*` `decaf::util::List< E`
`>::listIterator () const [pure virtual]`

Implemented in `decaf::util::StlList< E >` (p. 2426), `decaf::util::StlList< CompositeTask * >` (p. 2426), `decaf::util::StlList< URI >` (p. 2426), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2426), `decaf::util::StlList< PrimitiveValueNode >` (p. 2426), `decaf::util::StlList< Pointer< Command > >` (p. 2426), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2426).

6.318.3.9 `template<typename E> virtual ListIterator<E>*` `decaf::util::List< E`
`>::listIterator () [pure virtual]`

Returns:

a list iterator over the elements in this list (in proper sequence).

Implemented in `decaf::util::StlList< E >` (p. 2426), `decaf::util::StlList< CompositeTask * >` (p. 2426), `decaf::util::StlList< URI >` (p. 2426), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2426), `decaf::util::StlList< PrimitiveValueNode >` (p. 2426), `decaf::util::StlList< Pointer< Command > >` (p. 2426), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2426).

6.318.3.10 `template<typename E> virtual E decaf::util::List< E >::remove (std::size_t index) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Removes the element at the specified position in this list. Shifts any subsequent elements to the left (subtracts one from their indices). Returns the element that was removed from the list.

Parameters:

index - the index of the element to be removed

Returns:

the element previously at the specified position

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

Implemented in `decaf::util::StlList< E >` (p. 2426), `decaf::util::StlList< CompositeTask * >` (p. 2426), `decaf::util::StlList< URI >` (p. 2426), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2426), `decaf::util::StlList< PrimitiveValueNode >` (p. 2426), `decaf::util::StlList< Pointer< Command > >` (p. 2426), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2426).

6.318.3.11 `template<typename E> virtual E decaf::util::List< E >::set (std::size_t index, const E & element) throw (decaf::lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Replaces the element at the specified position in this list with the specified element.

Parameters:

index - index of the element to replace

element - element to be stored at the specified position

Returns:

the element previously at the specified position

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

Implemented in `decaf::util::StlList< E >` (p. 2427), `decaf::util::StlList< CompositeTask * >` (p. 2427), `decaf::util::StlList< URI >` (p. 2427), `decaf::util::StlList< Pointer< DestinationInfo > >` (p. 2427), `decaf::util::StlList< PrimitiveValueNode >` (p. 2427), `decaf::util::StlList< Pointer< Command > >` (p. 2427), and `decaf::util::StlList< Pointer< BackupTransport > >` (p. 2427).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/List.h`

6.319 decaf::util::ListIterator< E > Class Template Reference

An iterator for lists that allows the programmer to traverse the list in either direction, modify the list during iteration, and obtain the iterator's current position in the list.

```
#include <src/main/decaf/util/ListIterator.h> Inheritance diagram for
decaf::util::ListIterator< E >:
```

Public Member Functions

- virtual **~ListIterator** ()
- virtual void **add** (const E &e)=0 throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IllegalArgumentException)
Inserts the specified element into the list (optional operation).
- virtual void **set** (const E &e)=0 throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IllegalArgumentException, decaf::lang::exceptions::IllegalStateException)
Replaces the last element returned by next or previous with the specified element (optional operation).
- virtual bool **hasPrevious** () const =0
Returns true if this list iterator has more elements when traversing the list in the reverse direction.
- virtual E **previous** ()=0
Returns the previous element in the list.
- virtual int **nextIndex** () const =0
Returns the index of the element that would be returned by a subsequent call to next.
- virtual int **previousIndex** () const =0
Returns the index of the element that would be returned by a subsequent call to previous.

6.319.1 Detailed Description

```
template<typename E> class decaf::util::ListIterator< E >
```

An iterator for lists that allows the programmer to traverse the list in either direction, modify the list during iteration, and obtain the iterator's current position in the list. Note that the **remove()** (p. 1490) and **set(Object)** methods are not defined in terms of the cursor position; they are defined to operate on the last element returned by a call to **next()** (p. 1489) or **previous()** (p. 1599).

6.319.2 Constructor & Destructor Documentation

6.319.2.1 `template<typename E > virtual decaf::util::ListIterator< E >::~~ListIterator () [inline, virtual]`

6.319.3 Member Function Documentation

6.319.3.1 `template<typename E > virtual void decaf::util::ListIterator< E >::add (const E & e) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IllegalArgumentException) [pure virtual]`

Inserts the specified element into the list (optional operation). The element is inserted immediately before the next element that would be returned by next, if any, and after the next element that would be returned by previous, if any. (If the list contains no elements, the new element becomes the sole element on the list.) The new element is inserted before the implicit cursor: a subsequent call to next would be unaffected, and a subsequent call to previous would return the new element. (This call increases by one the value that would be returned by a call to nextIndex or previousIndex.)

Parameters:

e - the element to insert.

Exceptions:

UnsupportedOperationException - if the add method is not supported by this list iterator.

IllegalArgumentException - if some aspect of this element prevents it from being added to this list.

6.319.3.2 `template<typename E > virtual bool decaf::util::ListIterator< E >::hasPrevious () const [pure virtual]`

Returns true if this list iterator has more elements when traversing the list in the reverse direction. (In other words, returns true if previous would return an element rather than throwing an exception.)

Returns:

true if the list iterator has more elements when traversing the list in the reverse direction.

6.319.3.3 `template<typename E > virtual int decaf::util::ListIterator< E >::nextIndex () const [pure virtual]`

Returns the index of the element that would be returned by a subsequent call to next. (Returns list size if the list iterator is at the end of the list.)

Returns:

the index of the element that would be returned by a subsequent call to next, or list size if list iterator is at end of list.

6.319.3.4 `template<typename E > virtual E decaf::util::ListIterator< E >::previous
() [pure virtual]`

Returns the previous element in the list. This method may be called repeatedly to iterate through the list backwards, or intermixed with calls to next to go back and forth. (Note that alternating calls to next and previous will return the same element repeatedly.)

Returns:

the previous element in the list.

Exceptions:

NoSuchElementException - if the iteration has no previous element.

6.319.3.5 `template<typename E > virtual int decaf::util::ListIterator< E
>::previousIndex () const [pure virtual]`

Returns the index of the element that would be returned by a subsequent call to previous. (Returns -1 if the list iterator is at the beginning of the list.)

Returns:

the index of the element that would be returned by a subsequent call to previous, or -1 if list iterator is at beginning of list.

6.319.3.6 `template<typename E > virtual void
decaf::util::ListIterator< E >::set (const E & e) throw (
decaf::lang::exceptions::UnsupportedOperationException,
decaf::lang::exceptions::IllegalArgumentException,
decaf::lang::exceptions::IllegalStateException) [pure virtual]`

Replaces the last element returned by next or previous with the specified element (optional operation). This call can be made only if neither **ListIterator.remove** (p. 1490) nor **ListIterator.add** (p. 1598) have been called after the last call to next or previous.

Parameters:

e - the element with which to replace the last element returned by next or previous.

Exceptions:

UnsupportedOperationException - if the add method is not supported by this list iterator.

IllegalArgumentException - if some aspect of this element prevents it from being added to this list.

IllegalStateException - if neither next nor previous have been called, or remove or add have been called after the last call to next or previous.

The documentation for this class was generated from the following file:

- src/main/decaf/util/**ListIterator.h**

6.320 activemq::commands::LocalTransactionId Class Reference

#include <src/main/activemq/commands/LocalTransactionId.h> Inheritance diagram for activemq::commands::LocalTransactionId:

Public Types

- typedef decaf::lang::PointerComparator< LocalTransactionId > COMPARATOR

Public Member Functions

- LocalTransactionId ()
- LocalTransactionId (const LocalTransactionId &other)
- virtual ~LocalTransactionId ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual LocalTransactionId * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const DataStructure *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
Returns a string containing the information for this DataStructure (p. 1174) such as its type and value of its elements.
- virtual bool **equals** (const DataStructure *value) const
Compares the DataStructure (p. 1174) passed in to this one, and returns if they are equivalent.
- virtual long long **getValue** () const
- virtual void **setValue** (long long value)
- virtual const Pointer< ConnectionId > & **getConnectionId** () const
- virtual Pointer< ConnectionId > & **getConnectionId** ()
- virtual void **setConnectionId** (const Pointer< ConnectionId > &connectionId)
- virtual int **compareTo** (const LocalTransactionId &value) const
- virtual bool **equals** (const LocalTransactionId &value) const
- virtual bool **operator==** (const LocalTransactionId &value) const
- virtual bool **operator<** (const LocalTransactionId &value) const
- LocalTransactionId & **operator=** (const LocalTransactionId &other)

Static Public Attributes

- static const unsigned char **ID_LOCALTRANSACTIONID** = 111

Protected Attributes

- long long **value**
- **Pointer< ConnectionId > connectionId**

6.320.1 Member Typedef Documentation

- 6.320.1.1** `typedef decaf::lang::PointerComparator<LocalTransactionId>
activemq::commands::LocalTransactionId::COMPARATOR`

Reimplemented from `activemq::commands::TransactionId` (p. 2573).

6.320.2 Constructor & Destructor Documentation

- 6.320.2.1** `activemq::commands::LocalTransactionId::LocalTransactionId ()`
- 6.320.2.2** `activemq::commands::LocalTransactionId::LocalTransactionId (const
LocalTransactionId & other)`
- 6.320.2.3** `virtual activemq::commands::LocalTransactionId::~~LocalTransactionId ()
[virtual]`

6.320.3 Member Function Documentation

- 6.320.3.1** `virtual LocalTransactionId* ac-
tivemq::commands::LocalTransactionId::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from `activemq::commands::TransactionId` (p. 2574).

- 6.320.3.2** `virtual int activemq::commands::LocalTransactionId::compareTo (const
LocalTransactionId & value) const [virtual]`

Reimplemented from `activemq::commands::TransactionId` (p. 2574).

- 6.320.3.3** `virtual void activemq::commands::LocalTransactionId::copyDataStructure
(const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::TransactionId` (p. 2574).

6.320.3.4 `virtual bool activemq::commands::LocalTransactionId::equals (const LocalTransactionId & value) const` [virtual]

Reimplemented from `activemq::commands::TransactionId` (p. 2574).

6.320.3.5 `virtual bool activemq::commands::LocalTransactionId::equals (const DataStructure * value) const` [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.320.3.6 `virtual Pointer<ConnectionId>& activemq::commands::LocalTransactionId::getConnectionId ()` [virtual]

6.320.3.7 `virtual const Pointer<ConnectionId>& activemq::commands::LocalTransactionId::getConnectionId () const` [virtual]

6.320.3.8 `virtual unsigned char activemq::commands::LocalTransactionId::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.320.3.9 `virtual long long activemq::commands::LocalTransactionId::getValue () const` [virtual]

6.320.3.10 `virtual bool activemq::commands::LocalTransactionId::operator< (const LocalTransactionId & value) const` [virtual]

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.320.3.11 `LocalTransactionId& activemq::commands::LocalTransactionId::operator= (const LocalTransactionId & other)`

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.320.3.12 `virtual bool activemq::commands::LocalTransactionId::operator==(const LocalTransactionId & value) const` [virtual]

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.320.3.13 `virtual void activemq::commands::LocalTransactionId::setConnectionId(const Pointer< ConnectionId > & connectionId)` [virtual]

6.320.3.14 `virtual void activemq::commands::LocalTransactionId::setValue (long long value)` [virtual]

6.320.3.15 `virtual std::string activemq::commands::LocalTransactionId::toString () const` [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.320.4 Field Documentation

6.320.4.1 `Pointer<ConnectionId> activemq::commands::LocalTransactionId::connectionId` [protected]

6.320.4.2 `const unsigned char activemq::commands::LocalTransactionId::ID_LOCALTRANSACTIONID = 111` [static]

6.320.4.3 `long long activemq::commands::LocalTransactionId::value` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/LocalTransactionId.h`

6.321 activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p.1604).

#include <src/main/activemq/wireformat/openwire/marshal/v2/LocalTransactionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller:

Public Member Functions

- **LocalTransactionIdMarshaller** ()
- virtual **~LocalTransactionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.321.1 Detailed Description

Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p.1604). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.321.2 Constructor & Destructor Documentation

6.321.2.1 `activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::LocalTransactionIdMarshaller()` [inline]

6.321.2.2 `virtual activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::~~LocalTransactionIdMarshaller()` [inline, virtual]

6.321.3 Member Function Documentation

6.321.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.321.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.321.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller` (p. 2586).

6.321.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller` (p. 2586).

6.321.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller` (p. 2587).

6.321.3.6 virtual void activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller** (p. 2587).

6.321.3.7 virtual void activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller** (p. 2588).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**LocalTransactionIdMarshaller.h**

6.322 activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p.1608).

#include <src/main/activemq/wireformat/openwire/marshal/v3/LocalTransactionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller:

Public Member Functions

- **LocalTransactionIdMarshaller** ()
- virtual **~LocalTransactionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.322.1 Detailed Description

Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p.1608). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.322.2 Constructor & Destructor Documentation

6.322.2.1 `activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::LocalTransactionIdMarshaller()` [inline]

6.322.2.2 `virtual activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::~LocalTransactionIdMarshaller()` [inline, virtual]

6.322.3 Member Function Documentation

6.322.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.322.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.322.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2582).

6.322.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2582).

6.322.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2583).

6.322.3.6 virtual void activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller** (p. 2583).

6.322.3.7 virtual void activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller** (p. 2584).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**LocalTransactionIdMarshaller.h**

6.323 activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p.1612).

#include <src/main/activemq/wireformat/openwire/marshal/v1/LocalTransactionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller:

Public Member Functions

- **LocalTransactionIdMarshaller** ()
- virtual **~LocalTransactionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.323.1 Detailed Description

Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p.1612). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.323.2 Constructor & Destructor Documentation

6.323.2.1 `activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::LocalTransactionIdMarshaller()` [inline]

6.323.2.2 `virtual activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::~~LocalTransactionIdMarshaller()` [inline, virtual]

6.323.3 Member Function Documentation

6.323.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.323.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.323.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller` (p. 2578).

6.323.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller` (p. 2578).

6.323.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller` (p. 2579).

6.323.3.6 virtual void activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller** (p. 2579).

6.323.3.7 virtual void activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller** (p. 2580).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**LocalTransactionIdMarshaller.h**

6.324 decaf::util::concurrent::Lock Class Reference

A wrapper class around a given synchronization mechanism that provides automatic release upon destruction.

```
#include <src/main/decaf/util/concurrent/Lock.h>
```

Public Member Functions

- **Lock** (**Synchronizable** *object, const bool initiallyLocked=true)
*Constructor - initializes the object member and **locks** (p. 119) the object if desired.*
- virtual ~**Lock** ()
Destructor - Unlocks the object if it is locked.
- void **lock** ()
Locks the object.
- void **unlock** ()
Unlocks the object.
- bool **isLocked** () const
Indicates whether or not the object is locked.

6.324.1 Detailed Description

A wrapper class around a given synchronization mechanism that provides automatic release upon destruction.

Author:

Nathan Mittler

6.324.2 Constructor & Destructor Documentation

6.324.2.1 decaf::util::concurrent::Lock::Lock (**Synchronizable** * *object*, const bool *initiallyLocked* = true) [inline]

Constructor - initializes the object member and **locks** (p. 119) the object if desired.

Parameters:

object The sync object to control

initiallyLocked If true, the object will automatically be locked.

References DECAF_CATCH_RETHROW, DECAF_CATCHALL_THROW, and lock().

6.324.2.2 virtual decaf::util::concurrent::Lock::~~Lock () [inline, virtual]

Destructor - Unlocks the object if it is locked.

References DECAF_CATCH_RETHROW, DECAF_CATCHALL_THROW, and decaf::util::concurrent::Synchronizable::unlock().

6.324.3 Member Function Documentation

6.324.3.1 bool decaf::util::concurrent::Lock::isLocked () const [inline]

Indicates whether or not the object is locked.

Returns:

true if the object is locked, otherwise false.

6.324.3.2 void decaf::util::concurrent::Lock::lock () [inline]

Locks the object.

References DECAF_CATCH_RETHROW, DECAF_CATCHALL_THROW, and decaf::util::concurrent::Synchronizable::lock().

Referenced by Lock().

6.324.3.3 void decaf::util::concurrent::Lock::unlock () [inline]

Unlocks the object.

References DECAF_CATCH_RETHROW, DECAF_CATCHALL_THROW, and decaf::util::concurrent::Synchronizable::unlock().

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/**Lock.h**

6.325 decaf::util::concurrent::locks::Lock Class Reference

Lock (p. 1618) implementations provide more extensive locking operations than can be obtained using synchronized statements.

```
#include <src/main/decaf/util/concurrent/locks/Lock.h>
```

Public Member Functions

- virtual **~Lock** ()
- virtual void **lock** ()=0
Acquires the lock.
- virtual void **lockInterruptibly** ()=0 throw (decaf::lang::exceptions::InterruptedException)
Acquires the lock unless the current thread is interrupted.
- virtual bool **tryLock** ()=0
Acquires the lock only if it is free at the time of invocation.
- virtual bool **tryLock** (long long time, const **TimeUnit** &unit)=0 throw (decaf::lang::exceptions::InterruptedException)
Acquires the lock if it is free within the given waiting time and the current thread has not been interrupted.
- virtual void **unlock** ()=0
Releases the lock.
- virtual **Condition** * **newCondition** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException)
*Returns a new **Condition** (p. 932) instance that is bound to this **Lock** (p. 1618) instance.*

6.325.1 Detailed Description

Lock (p. 1618) implementations provide more extensive locking operations than can be obtained using synchronized statements. They allow more flexible structuring, may have quite different properties, and may support multiple associated **Condition** (p. 932) objects.

A lock is a tool for controlling access to a shared resource by multiple threads. Commonly, a lock provides exclusive access to a shared resource: only one thread at a time can acquire the lock and all access to the shared resource requires that the lock be acquired first. However, some **locks** (p. 119) may allow **concurrent** (p. 116) access to a shared resource, such as the read lock of a **ReadWriteLock** (p. 2170).

While the scoping mechanism for synchronized statements makes it much easier easier to program with monitor **locks** (p. 119), and helps avoid many common programming errors involving **locks** (p. 119), there are occasions where you need to work with **locks** (p. 119) in a more flexible way. For example, some algorithms for traversing concurrently accessed data structures require the use of "hand-over-hand" or "chain locking": you acquire the lock of node A, then node B, then release A and acquire C, then release B and acquire D and so on. Implementations of the **Lock**

(p. 1618) interface enable the use of such techniques by allowing a lock to be acquired and released in different scopes, and allowing multiple **locks** (p. 119) to be acquired and released in any order.

With this increased flexibility comes additional responsibility. The absence of block-structured locking removes the automatic release of **locks** (p. 119) that occurs with synchronized statements. In most cases, the following idiom should be used:

```
Lock (p. 1618) l = ...; l.lock(); try { // access the resource protected by this lock } catch(...) { l.unlock(); }
```

When locking and unlocking occur in different scopes, care must be taken to ensure that all code that is executed while the lock is held is protected by try-catch ensure that the lock is released when necessary.

Lock (p. 1618) implementations provide additional functionality over the use of synchronized methods and statements by providing a non-blocking attempt to acquire a lock (**tryLock()** (p. 1621)), an attempt to acquire the lock that can be interrupted (**lockInterruptibly()** (p. 1620), and an attempt to acquire the lock that can timeout (**tryLock(long, TimeUnit)**).

Note that **Lock** (p. 1618) instances are just normal objects and can themselves be used as the target in a synchronized statement.

The three forms of lock acquisition (interruptible, non-interruptible, and timed) may differ in their performance characteristics, ordering guarantees, or other implementation qualities. Further, the ability to interrupt the ongoing acquisition of a lock may not be available in a given **Lock** (p. 1618) class. Consequently, an implementation is not required to define exactly the same guarantees or semantics for all three forms of lock acquisition, nor is it required to support interruption of an ongoing lock acquisition. An implementation is required to clearly document the semantics and guarantees provided by each of the locking methods. It must also obey the interruption semantics as defined in this interface, to the extent that interruption of lock acquisition is supported: which is either totally, or only on method entry.

As interruption generally implies cancellation, and checks for interruption are often infrequent, an implementation can favor responding to an interrupt over normal method return. This is true even if it can be shown that the interrupt occurred after another action may have unblocked the thread. An implementation should document this behavior.

Since:

1.0

6.325.2 Constructor & Destructor Documentation

6.325.2.1 `virtual decaf::util::concurrent::locks::Lock::~~Lock () [inline, virtual]`

6.325.3 Member Function Documentation

6.325.3.1 `virtual void decaf::util::concurrent::locks::Lock::lock () [pure virtual]`

Acquires the lock. If the lock is not available then the current thread becomes disabled for thread scheduling purposes and lies dormant until the lock has been acquired.

Implementation Considerations

A **Lock** (p. 1618) implementation may be able to detect erroneous use of the lock, such as an invocation that would cause deadlock, and may throw an (unchecked) exception in such circumstances. The circumstances and the exception type must be documented by that **Lock** (p. 1618) implementation.

6.325.3.2 **virtual void decaf::util::concurrent::locks::Lock::lockInterruptibly ()** **throw (decaf::lang::exceptions::InterruptedException)** [pure virtual]

Acquires the lock unless the current thread is interrupted. Acquires the lock if it is available and returns immediately.

If the lock is not available then the current thread becomes disabled for thread scheduling purposes and lies dormant until one of two things happens:

* The lock is acquired by the current thread; or * Some other thread interrupts the current thread, and interruption of lock acquisition is supported.

If the current thread:

* has its interrupted status set on entry to this method; or * is interrupted while acquiring the lock, and interruption of lock acquisition is supported,

then InterruptedException is thrown and the current thread's interrupted status is cleared.

Implementation Considerations

The ability to interrupt a lock acquisition in some implementations may not be possible, and if possible may be an expensive operation. The programmer should be aware that this may be the case. An implementation should document when this is the case.

An implementation can favor responding to an interrupt over normal method return.

A **Lock** (p.1618) implementation may be able to detect erroneous use of the lock, such as an invocation that would cause deadlock, and may throw an (unchecked) exception in such circumstances. The circumstances and the exception type must be documented by that **Lock** (p.1618) implementation.

Exceptions:

InterruptedException if the current thread is interrupted while acquiring the lock (and interruption of lock acquisition is supported).

6.325.3.3 **virtual Condition* decaf::util::concurrent::locks::Lock::newCondition ()** **throw (decaf::lang::exceptions::UnsupportedOperationException)** [pure virtual]

Returns a new **Condition** (p.932) instance that is bound to this **Lock** (p.1618) instance. Before waiting on the condition the lock must be held by the current thread. A call to **Condition.await()** (p.934) will atomically release the lock before waiting and re-acquire the lock before the wait returns.

Implementation Considerations

The exact operation of the **Condition** (p.932) instance depends on the **Lock** (p.1618) implementation and must be documented by that implementation.

Returns:

A new **Condition** (p.932) instance for this **Lock** (p.1618) instance the caller must delete the returned **Condition** (p.932) object when done with it.

Exceptions:

UnsupportedOperationException if this **Lock** (p.1618) implementation does not support conditions

6.325.3.4 virtual bool decaf::util::concurrent::locks::Lock::tryLock (long long *time*, const TimeUnit & *unit*) throw (decaf::lang::exceptions::InterruptedException) [pure virtual]

Acquires the lock if it is free within the given waiting time and the current thread has not been interrupted. If the lock is available this method returns immediately with the value true. If the lock is not available then the current thread becomes disabled for thread scheduling purposes and lies dormant until one of three things happens:

- * The lock is acquired by the current thread; or
- * Some other thread interrupts the current thread, and interruption of lock acquisition is supported; or
- * The specified waiting time elapses

If the lock is acquired then the value true is returned.

If the current thread:

- * has its interrupted status set on entry to this method; or
- * is interrupted while acquiring the lock, and interruption of lock acquisition is supported,

then InterruptedException is thrown and the current thread's interrupted status is cleared.

If the specified waiting time elapses then the value false is returned. If the time is less than or equal to zero, the method will not wait at all.

Implementation Considerations

The ability to interrupt a lock acquisition in some implementations may not be possible, and if possible may be an expensive operation. The programmer should be aware that this may be the case. An implementation should document when this is the case.

An implementation can favor responding to an interrupt over normal method return, or reporting a timeout.

A **Lock** (p.1618) implementation may be able to detect erroneous use of the lock, such as an invocation that would cause deadlock, and may throw an (unchecked) exception in such circumstances. The circumstances and the exception type must be documented by that **Lock** (p.1618) implementation.

Parameters:

time the maximum time to wait for the lock

unit the time unit of the time argument

Returns:

true if the lock was acquired and false if the waiting time elapsed before the lock was acquired

Exceptions:

InterruptedException if the current thread is interrupted while acquiring the lock (and interruption of lock acquisition is supported)

6.325.3.5 virtual bool decaf::util::concurrent::locks::Lock::tryLock () [pure virtual]

Acquires the lock only if it is free at the time of invocation. Acquires the lock if it is available and returns immediately with the value true. If the lock is not available then this method will return immediately with the value false.

A typical usage idiom for this method would be:

```
Lock (p. 1618) lock = ...; if (lock.tryLock()) { try { // manipulate protected state } catch(...) {  
lock.unlock(); } } else { // perform alternative actions }
```

This usage ensures that the lock is unlocked if it was acquired, and doesn't try to unlock if the lock was not acquired.

Returns:

true if the lock was acquired and false otherwise

6.325.3.6 virtual void decaf::util::concurrent::locks::Lock::unlock () [pure virtual]

Releases the lock. Implementation Considerations

A **Lock** (p. 1618) implementation will usually impose restrictions on which thread can release a lock (typically only the holder of the lock can release it) and may throw an exception if the restriction is violated. Any restrictions and the exception type must be documented by that **Lock** (p. 1618) implementation.

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/locks/**Lock.h**

6.326 decaf::util::logging::Logger Class Reference

```
#include <src/main/decaf/util/logging/Logger.h>
```

Public Member Functions

- **Logger** (const std::string &name, **Logger** *parent)
*Creates a new instance of the **Logger** (p. 1623) with the given name and assign it the given parent logger.*
- virtual ~**Logger** ()
- virtual const std::string & **getName** () const
*Gets the name of this **Logger** (p. 1623).*
- virtual void **addHandler** (**Handler** *handler) throw (lang::exceptions::IllegalArgumentException)
*Add a log **Handler** (p. 1382) to receive **logging** (p. 120) messages.*
- virtual void **removeHandler** (**Handler** *handler)
*Removes the specified **Handler** (p. 1382) and destroys it.*
- virtual void **setFilter** (**Filter** *filter)
Gets a vector containing all the handlers that this class has been assigned to use.
- virtual const **Filter** * **getFilter** () const
*Gets the **Filter** (p. 1314) object that this class is using.*
- virtual **Level** **getLevel** () const
*Get the log Level that has been specified for this **Logger** (p. 1623).*
- virtual void **setLevel** (**Level** level)
***Set** (p. 2320) the log level specifying which message levels will be logged by this logger.*
- virtual bool **getUseParentHandlers** () const
Discover whether or not this logger is sending its output to its parent logger.
- virtual void **setUseParentHandlers** (bool value)
*pecify whether or not this logger should send its output to it's parent **Logger** (p. 1623).*
- virtual void **entry** (const std::string &blockName, const std::string &file, const int line)
Logs an Block Enter message.
- virtual void **exit** (const std::string &blockName, const std::string &file, const int line)
Logs an Block Exit message.
- virtual void **debug** (const std::string &file, const int line, const std::string functionName, const std::string &message)
Log a Debug Level Log.

- virtual void **info** (const std::string &file, const int line, const std::string functionName, const std::string &message)
Log a info Level Log.
- virtual void **warn** (const std::string &file, const int line, const std::string functionName, const std::string &message)
Log a warn Level Log.
- virtual void **error** (const std::string &file, const int line, const std::string functionName, const std::string &message)
Log a error Level Log.
- virtual void **fatal** (const std::string &file, const int line, const std::string functionName, const std::string &message)
Log a fatal Level Log.
- virtual bool **isLoggable** (**Level** level) const
Log a Throw Message.
- virtual void **log** (**LogRecord** &record)
*Log a **LogRecord** (p. 1645).*
- virtual void **log** (**Level** level, const std::string &message)
Log a message, with no arguments.
- virtual void **log** (**Level** level, const std::string &file, const int line, const std::string &message,...)
Log a message, with the list of params that is formatted into the message string.
- virtual void **log** (**Level** level, const std::string &file, const int line, const std::string &message, **lang::Exception** &ex)
Log a message, with associated Throwable information.

Static Public Member Functions

- static **Logger** * **getAnonymousLogger** ()
Creates an anonymous logger.
- static **Logger** * **getLogger** (const std::string &name)
Find or create a logger for a named subsystem.

6.326.1 Constructor & Destructor Documentation

6.326.1.1 decaf::util::logging::Logger::Logger (const std::string & name, Logger * parent)

Creates a new instance of the **Logger** (p. 1623) with the given name and assign it the given parent logger. The logger will be initially configured with a null Level and with useParentHandlers true.

Parameters:

name - A name for the logger. This should be a dot-separated name and should normally be based on the package name or class name of the subsystem, such as java.net or javax.swing. It may be null for anonymous Loggers.

parent logger that is this one's parent

6.326.1.2 virtual decaf::util::logging::Logger::~~Logger () [virtual]**6.326.2 Member Function Documentation****6.326.2.1 virtual void decaf::util::logging::Logger::addHandler (Handler * *handler*) throw (lang::exceptions::IllegalArgumentException) [virtual]**

Add a log **Handler** (p.1382) to receive **logging** (p.120) messages. By default, Loggers also send their output to their parent logger. Typically the root **Logger** (p.1623) is configured with a set of Handlers that essentially act as default handlers for all loggers.

Parameters:

handler A Logging **Handler** (p.1382)

Exceptions:

IllegalArgumentException

6.326.2.2 virtual void decaf::util::logging::Logger::debug (const std::string & *file*, const int *line*, const std::string *functionName*, const std::string & *message*) [virtual]

Log a Debug Level Log. If the logger is currently enabled for the DEBUG message level then the given message is forwarded to all the registered output **Handler** (p.1382) objects.

Parameters:

file the file name where the log was generated

line the line number where the log was generated

functionName name of the function that logged this

message the message to log

6.326.2.3 virtual void decaf::util::logging::Logger::entry (const std::string & *blockName*, const std::string & *file*, const int *line*) [virtual]

Logs an Block Enter message. This is a convenience method that is used to tag a block enter, a log record with the class name function name and the string Entering is logged at the DEBUG log level.

Parameters:

blockName source block name

file source file name

line source line name

6.326.2.4 virtual void decaf::util::logging::Logger::error (const std::string & *file*, const int *line*, const std::string *functionName*, const std::string & *message*) [virtual]

Log a error Level Log. If the logger is currently enabled for the error message level then the given message is forwarded to all the registered output **Handler** (p.1382) objects.

Parameters:

file the file name where the log was generated
line the line number where the log was generated
functionName name of the function that logged this
message the message to log

6.326.2.5 virtual void decaf::util::logging::Logger::exit (const std::string & *blockName*, const std::string & *file*, const int *line*) [virtual]

Logs an Block Exit message. This is a convenience method that is used to tag a block exit, a log record with the class name function name and the string Exiting is logged at the DEBUG log level.

Parameters:

blockName source block name
file source file name
line source line name

6.326.2.6 virtual void decaf::util::logging::Logger::fatal (const std::string & *file*, const int *line*, const std::string *functionName*, const std::string & *message*) [virtual]

Log a fatal Level Log. If the logger is currently enabled for the fatal message level then the given message is forwarded to all the registered output **Handler** (p.1382) objects.

Parameters:

file the file name where the log was generated
line the line number where the log was generated
functionName name of the function that logged this
message the message to log

6.326.2.7 static Logger* decaf::util::logging::Logger::getAnonymousLogger () [static]

Creates an anonymous logger. The newly created **Logger** (p.1623) is not registered in the **Log-Manager** (p.1640) namespace. There will be no access checks on updates to the logger. Even although the new logger is anonymous, it is configured to have the root logger ("") as its parent. This means that by default it inherits its effective level and handlers from the root logger.

The caller is responsible for destroying the returned logger.

Returns:

Newly created anonymous logger

6.326.2.8 virtual const Filter* decaf::util::logging::Logger::getFilter () const
[inline, virtual]

Gets the **Filter** (p. 1314) object that this class is using.

Returns:

the **Filter** (p. 1314) in use, can be null

6.326.2.9 virtual Level decaf::util::logging::Logger::getLevel () const [inline, virtual]

Get the log Level that has been specified for this **Logger** (p. 1623). The result may be the Null level, which means that this logger's effective level will be inherited from its parent.

Returns:

the level that is currently set

6.326.2.10 static Logger* decaf::util::logging::Logger::getLogger (const std::string & name) [static]

Find or create a logger for a named subsystem. If a logger has already been created with the given name it is returned. Otherwise a new logger is created.

If a new logger is created its log level will be configured based on the **LogManager** (p. 1640) and it will be configured to also send **logging** (p. 120) output to its parent loggers Handlers. It will be registered in the **LogManager** (p. 1640) global namespace.

Parameters:

name - A name for the logger. This should be a dot-separated name and should normally be based on the package name or class name of the subsystem, such as **cms** (p. 91) or **activemq.core.ActiveMQConnection** (p. 190)

Returns:

a suitable logger.

6.326.2.11 virtual const std::string& decaf::util::logging::Logger::getName () const
[inline, virtual]

Gets the name of this **Logger** (p. 1623).

Returns:

logger name

6.326.2.12 `virtual bool decaf::util::logging::Logger::getUseParentHandlers () const`
`[inline, virtual]`

Discover whether or not this logger is sending its output to its parent logger.

Returns:

true if using Parent Handlers

6.326.2.13 `virtual void decaf::util::logging::Logger::info (const std::string & file,
const int line, const std::string functionName, const std::string &
message) [virtual]`

Log a info Level Log. If the logger is currently enabled for the info message level then the given message is forwarded to all the registered output **Handler** (p.1382) objects.

Parameters:

file the file name where the log was generated
line the line number where the log was generated
functionName name of the function that logged this
message the message to log

6.326.2.14 `virtual bool decaf::util::logging::Logger::isLoggable (Level level) const`
`[virtual]`

Log a Throw Message. If the logger is currently enabled for the Throwing message level then the given message is forwarded to all the registered output **Handler** (p.1382) objects.

Parameters:

file the file name where the log was generated
line the line number where the log was generated
functionName name of the function that logged this
message the message to log `virtual void throwing(const std::string& file, const int line,
const std::string functionName, const std::string& message);` Check if a message of the
given level would actually be logged by this logger. This check is based on the Loggers
effective level, which may be inherited from its parent.
level - a message **logging** (p.120) level

Returns:

true if the given message level is currently being logged.

6.326.2.15 `virtual void decaf::util::logging::Logger::log (Level level, const
std::string & file, const int line, const std::string & message,
lang::Exception & ex) [virtual]`

Log a message, with associated Throwable information. If the logger is currently enabled for the given message level then the given arguments are stored in a **LogRecord** (p.1645) which is

forwarded to all registered output handlers. Note that the thrown argument is stored in the **LogRecord** (p. 1645) thrown property, rather than the **LogRecord** (p. 1645) parameters property. Thus is it processed specially by output Formatters and is not treated as a formatting parameter to the **LogRecord** (p. 1645) message property.

Parameters:

level the Level to log at.
file File that the message was logged in.
line the line number where the message was logged at.
message the message to log.
ex the Exception to log

6.326.2.16 virtual void decaf::util::logging::Logger::log (Level *level*, const std::string & *file*, const int *line*, const std::string & *message*, ...) [virtual]

Log a message, with the list of params that is formatted into the message string. If the logger is currently enabled for the given message level then the given message is forwarded to all the registered output **Handler** (p. 1382) objects

Parameters:

level the Level to log at
file the message to log
line the line in the file
... variable length argument to format the message string.

6.326.2.17 virtual void decaf::util::logging::Logger::log (Level *level*, const std::string & *message*) [virtual]

Log a message, with no arguments. If the logger is currently enabled for the given message level then the given message is forwarded to all the registered output **Handler** (p. 1382) objects

Parameters:

level the Level to log at
message the message to log

6.326.2.18 virtual void decaf::util::logging::Logger::log (LogRecord & *record*) [virtual]

Log a **LogRecord** (p. 1645). All the other **logging** (p. 120) methods in this class call through this method to actually perform any **logging** (p. 120). Subclasses can override this single method to capture all log activity.

Parameters:

record - the **LogRecord** (p. 1645) to be published

6.326.2.19 `virtual void decaf::util::logging::Logger::removeHandler (Handler * handler)` [virtual]

Removes the specified **Handler** (p. 1382) and destroys it. Returns silently if the given **Handler** (p. 1382) is not found.

Parameters:

handler The **Handler** (p. 1382) to remove

6.326.2.20 `virtual void decaf::util::logging::Logger::setFilter (Filter * filter)` [virtual]

Gets a vector containing all the handlers that this class has been assigned to use.

Returns:

a list of handlers that are used by this logger **Set** (p. 2320) a filter to control output on this **Logger** (p. 1623).

After passing the initial "level" check, the **Logger** (p. 1623) will call this **Filter** (p. 1314) to check if a log record should really be published.

The caller releases ownership of this filter to this logger

Parameters:

filter to use, can be null

6.326.2.21 `virtual void decaf::util::logging::Logger::setLevel (Level level)` [inline, virtual]

Set (p. 2320) the log level specifying which message levels will be logged by this logger. Message levels lower than this value will be discarded. The level value Level.OFF can be used to turn off **logging** (p. 120).

If the new level is the Null Level, it means that this node should inherit its level from its nearest ancestor with a specific (non-null) level value.

Parameters:

level new Level value

6.326.2.22 `virtual void decaf::util::logging::Logger::setUseParentHandlers (bool value)` [inline, virtual]

pecify whether or not this logger should send its output to it's parent **Logger** (p. 1623). This means that any LogRecords will also be written to the parent's Handlers, and potentially to its parent, recursively up the namespace.

Parameters:

value True is output is to be written to the parent

6.326.2.23 `virtual void decaf::util::logging::Logger::warn (const std::string & file,
const int line, const std::string functionName, const std::string &
message)` [virtual]

Log a warn Level Log. If the logger is currently enabled for the warn message level then the given message is forwarded to all the registered output **Handler** (p. 1382) objects.

Parameters:

file the file name where the log was generated
line the line number where the log was generated
functionName name of the function that logged this
message the message to log

The documentation for this class was generated from the following file:

- `src/main/decaf/util/logging/Logger.h`

6.327 decaf::util::logging::LoggerHierarchy Class Reference

```
#include <src/main/decaf/util/logging/LoggerHierarchy.h>
```

Public Member Functions

- **LoggerHierarchy** ()
- virtual **~LoggerHierarchy** ()

6.327.1 Constructor & Destructor Documentation

6.327.1.1 decaf::util::logging::LoggerHierarchy::LoggerHierarchy ()

6.327.1.2 virtual decaf::util::logging::LoggerHierarchy::~~LoggerHierarchy ()
[virtual]

The documentation for this class was generated from the following file:

- `src/main/decaf/util/logging/LoggerHierarchy.h`

6.328 activemq::io::LoggingInputStream Class Reference

#include <src/main/activemq/io/LoggingInputStream.h> Inheritance diagram for activemq::io::LoggingInputStream:

Public Member Functions

- **LoggingInputStream** (decaf::io::InputStream *inputStream, bool own=false)
Creates a DataInputStream that uses the specified underlying InputStream.
- virtual ~**LoggingInputStream** ()
- virtual unsigned char **read** () throw (decaf::io::IOException)
Reads a single byte from the buffer.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)
Reads an array of bytes from the buffer.

6.328.1 Constructor & Destructor Documentation

6.328.1.1 activemq::io::LoggingInputStream::LoggingInputStream (decaf::io::InputStream * inputStream, bool own = false)

Creates a DataInputStream that uses the specified underlying InputStream.

Parameters:

- inputStream* the InputStream instance to wrap.
own indicates if this class owns the wrapped string defaults to false.

6.328.1.2 virtual activemq::io::LoggingInputStream::~~LoggingInputStream () [virtual]

6.328.2 Member Function Documentation

6.328.2.1 virtual int activemq::io::LoggingInputStream::read (unsigned char * buffer, std::size_t offset, std::size_t bufferSize) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException) [virtual]

Reads an array of bytes from the buffer. Blocks until the requested number of bytes are available.

Parameters:

- buffer* (out) the target buffer.
offset the position in the buffer to start at
bufferSize the size of the output buffer.

Returns:

The number of bytes read or -1 if EOF is detected

Exceptions:

IOException thrown if an error occurs.

NullPointerException if buffer is null

Reimplemented from **decaf::io::FilterInputStream** (p.1319).

6.328.2.2 **virtual unsigned char activemq::io::LoggingInputStream::read () throw (decaf::io::IOException)** [virtual]

Reads a single byte from the buffer. Blocks until data is available.

Returns:

The next byte.

Exceptions:

IOException thrown if an error occurs.

Reimplemented from **decaf::io::FilterInputStream** (p.1319).

The documentation for this class was generated from the following file:

- `src/main/activemq/io/LoggingInputStream.h`

6.329 activemq::io::LoggingOutputStream Class Reference

OutputStream filter that just logs the data being written.

#include <src/main/activemq/io/LoggingOutputStream.h>Inheritance diagram for activemq::io::LoggingOutputStream:

Public Member Functions

- **LoggingOutputStream** (OutputStream *next, bool own=false)
Constructor.
- virtual ~**LoggingOutputStream** ()
- virtual void **write** (unsigned char c) throw (decaf::io::IOException)
Writes a single byte to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset, std::size_t len) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.

6.329.1 Detailed Description

OutputStream filter that just logs the data being written.

6.329.2 Constructor & Destructor Documentation

6.329.2.1 activemq::io::LoggingOutputStream::LoggingOutputStream (OutputStream * next, bool own = false)

Constructor.

Parameters:

- next* The OutputStream to wrap an write logs to.
- own* If true, this object will control the lifetime of the output stream that it encapsulates.

6.329.2.2 virtual activemq::io::LoggingOutputStream::~~LoggingOutputStream () [virtual]

6.329.3 Member Function Documentation

6.329.3.1 virtual void activemq::io::LoggingOutputStream::write (const unsigned char * buffer, std::size_t offset, std::size_t len) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException) [virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The array of bytes to write.
offset the position in the buffer to start at
len The number of bytes from the buffer to be written.

Exceptions:

IOException thrown if an error occurs.
NullPointerException if buffer is null.

Reimplemented from **decaf::io::FilterOutputStream** (p. 1326).

6.329.3.2 `virtual void activemq::io::LoggingOutputStream::write (unsigned char c)
throw (decaf::io::IOException) [virtual]`

Writes a single byte to the output stream.

Parameters:

c the byte.

Exceptions:

IOException thrown if an error occurs.

Reimplemented from **decaf::io::FilterOutputStream** (p. 1327).

The documentation for this class was generated from the following file:

- `src/main/activemq/io/LoggingOutputStream.h`

6.330 activemq::transport::logging::LoggingTransport Class Reference

A **transport** (p. 67) filter that logs **commands** (p. 59) as they are sent/received.

#include <src/main/activemq/transport/logging/LoggingTransport.h> Inheritance diagram for activemq::transport::logging::LoggingTransport:

Public Member Functions

- **LoggingTransport** (const **Pointer**< **Transport** > &next)

Constructor.

- virtual ~**LoggingTransport** ()
- virtual void **onCommand** (const **Pointer**< **Command** > &command)

Event handler for the receipt of a command.

- virtual void **oneway** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)

Sends a one-way command.

- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)

Not supported by this class - throws an exception.

- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)

Not supported by this class - throws an exception.

6.330.1 Detailed Description

A **transport** (p. 67) filter that logs **commands** (p. 59) as they are sent/received.

6.330.2 Constructor & Destructor Documentation

6.330.2.1 activemq::transport::logging::LoggingTransport::LoggingTransport (const **Pointer**< **Transport** > & next)

Constructor.

Parameters:

next - the next **Transport** (p. 2608) in the chain

6.330.2.2 `virtual`
`activemq::transport::logging::LoggingTransport::~~LoggingTransport ()`
`[inline, virtual]`

6.330.3 Member Function Documentation

6.330.3.1 `virtual void activemq::transport::logging::LoggingTransport::onCommand`
`(const Pointer< Command > & command) [virtual]`

Event handler for the receipt of a command.

Parameters:

command - the received command object.

Reimplemented from `activemq::transport::TransportFilter` (p. 2620).

6.330.3.2 `virtual void activemq::transport::logging::LoggingTransport::oneway`
`(const Pointer< Command > & command) throw (decaf::io::IOException,`
`decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends a one-way command. Does not wait for any response from the broker.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this `transport` (p. 67).

Reimplemented from `activemq::transport::TransportFilter` (p. 2620).

6.330.3.3 `virtual Pointer<Response> ac-`
`tivemq::transport::logging::LoggingTransport::request`
`(const Pointer< Command > & command, un-`
`signed int timeout) throw (decaf::io::IOException,`
`decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Not supported by this class - throws an exception.

Parameters:

command the command that is sent as a request

timeout the time to wait for a response.

Exceptions:

UnsupportedOperationException.

Reimplemented from `activemq::transport::TransportFilter` (p. 2621).

6.330.3.4 virtual Pointer<Response> activemq::transport::logging::LoggingTransport::request (const Pointer< Command > & *command*) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Not supported by this class - throws an exception.

Parameters:

command the command that is sent as a request

Exceptions:

UnsupportedOperationException.

Reimplemented from **activemq::transport::TransportFilter** (p. 2622).

The documentation for this class was generated from the following file:

- src/main/activemq/transport/logging/**LoggingTransport.h**

6.331 decaf::util::logging::LogManager Class Reference

There is a single global **LogManager** (p.1640) object that is used to maintain a set of shared state about Loggers and log services.

```
#include <src/main/decaf/util/logging/LogManager.h>
```

Public Member Functions

- virtual **~LogManager** ()
- virtual void **setProperties** (const **util::Properties** &properties)
*Sets the **Properties** (p. 2140) this **LogManager** (p. 1640) should use to configure its loggers.*
- virtual const **util::Properties** & **getProperties** () const
*Gets a reference to the Logging **Properties** (p. 2140) used by this logger.*
- virtual std::string **getProperty** (const std::string &name)
*Gets the value of a named property of this **LogManager** (p. 1640).*
- virtual void **addPropertyChangeListener** (PropertyChangeListener *listener)
*Adds a change listener for **LogManager** (p. 1640) **Properties** (p. 2140), adding the same instance of a change event listener does nothing.*
- virtual void **removePropertyChangeListener** (PropertyChangeListener *listener)
*Removes a properties change listener from the **LogManager** (p. 1640).*
- virtual **Logger** * **getLogger** (const std::string &name)
*Retrieves or creates a new **Logger** (p. 1623) using the name specified a new logger inherits the configuration of the logger's parent if there is no configuration data for the logger.*
- virtual int **getLoggerNames** (const std::vector< std::string > &names)
*Gets a list of known **Logger** (p. 1623) Names from this Manager.*

Static Public Member Functions

- static **LogManager** * **getInstance** ()
Get the singleton instance.
- static void **returnInstance** ()
Returns a Checked out instance of this Manager.
- static void **destroy** ()
*Forcefully Delete the Instance of this **LogManager** (p. 1640) even if there are outstanding references.*

Protected Member Functions

- **LogManager** ()
Constructor, hidden to protect against direct instantiation.
- **LogManager** (const **LogManager** &manager)
Copy Constructo.
- void **operator=** (const **LogManager** &manager)
Assignment operator.

6.331.1 Detailed Description

There is a single global **LogManager** (p.1640) object that is used to maintain a set of shared state about Loggers and log services. This **LogManager** (p.1640) object:

* Manages a hierarchical namespace of **Logger** (p.1623) objects. All named Loggers are stored in this namespace. * Manages a set of **logging** (p.120) control properties. These are simple key-value pairs that can be used by Handlers and other **logging** (p.120) objects to configure themselves.

The global **LogManager** (p.1640) object can be retrieved using `LogManager.getLogManager()`. The **LogManager** (p.1640) object is created during class initialization and cannot subsequently be changed.

TODO By default, the **LogManager** (p.1640) reads its initial configuration from a properties file "lib/logging.properties" in the JRE directory. If you edit that property file you can change the default **logging** (p.120) configuration for all uses of that JRE.

In addition, the **LogManager** (p.1640) uses two optional system properties that allow more control over reading the initial configuration:

* "decaf.logger.config.class" * "decaf.logger.config.file"

These two properties may be set via the Preferences API, or as command line property definitions to the "java" command, or as system property definitions passed to `JNI_CreateJavaVM`.

If the "java.util.logging.config.class" property is set, then the property value is treated as a class name. The given class will be loaded, an object will be instantiated, and that object's constructor is responsible for reading in the initial configuration. (That object may use other system properties to control its configuration.) The alternate configuration class can use `readConfiguration(InputStream)` to define properties in the **LogManager** (p.1640).

If "java.util.logging.config.class" property is not set, then the "java.util.logging.config.file" system property can be used to specify a properties file (in `java.util.Properties` format). The initial **logging** (p.120) configuration will be read from this file.

If neither of these properties is defined then, as described above, the **LogManager** (p.1640) will read its initial configuration from a properties file "lib/logging.properties" in the JRE directory.

The properties for loggers and Handlers will have names starting with the dot-separated name for the handler or logger. ***TODO***

The global **logging** (p.120) properties may include:

* A property "handlers". This defines a whitespace separated list of class names for handler classes to load and register as handlers on the root **Logger** (p.1623) (the **Logger** (p.1623) named ""). Each class name must be for a **Handler** (p.1382) class which has a default constructor. Note that

these Handlers may be created lazily, when they are first used. * A property "<logger>.handlers". This defines a whitespace or comma separated list of class names for handlers classes to load and register as handlers to the specified logger. Each class name must be for a **Handler** (p. 1382) class which has a default constructor. Note that these Handlers may be created lazily, when they are first used. * A property "<logger>.useParentHandlers". This defines a boolean value. By default every logger calls its parent in addition to handling the **logging** (p. 120) message itself, this often result in messages being handled by the root logger as well. When setting this property to false a **Handler** (p. 1382) needs to be configured for this logger otherwise no **logging** (p. 120) messages are delivered. * A property "config". This property is intended to allow arbitrary configuration code to be run. The property defines a whitespace separated list of class names. A new instance will be created for each named class. The default constructor of each class may execute arbitrary code to update the **logging** (p. 120) configuration, such as setting logger levels, adding handlers, adding filters, etc.

Loggers are organized into a naming hierarchy based on their dot separated names. Thus "a.b.c" is a child of "a.b", but "a.b1" and a.b2 are peers.

All properties whose names end with ".level" are assumed to define log levels for Loggers. Thus "foo.level" defines a log level for the logger called "foo" and (recursively) for any of its children in the naming hierarchy. Log Levels are applied in the order they are defined in the properties file. Thus level settings for child nodes in the tree should come after settings for their parents. The property name ".level" can be used to set the level for the root of the tree.

All methods on the **LogManager** (p. 1640) object are multi-thread safe.

6.331.2 Constructor & Destructor Documentation

6.331.2.1 `virtual decaf::util::logging::LogManager::~LogManager ()` [virtual]

6.331.2.2 `decaf::util::logging::LogManager::LogManager ()` [inline, protected]

Constructor, hidden to protect against direct instantiation.

6.331.2.3 `decaf::util::logging::LogManager::LogManager (const LogManager & manager)` [protected]

Copy Constructo.

Parameters:

manager the Manager to copy

6.331.3 Member Function Documentation

6.331.3.1 `virtual void decaf::util::logging::LogManager::addPropertyChangeListener (PropertyChangeListener * listener)` [virtual]

Adds a change listener for **LogManager** (p. 1640) **Properties** (p. 2140), adding the same instance of a change event listener does nothing.

Parameters:

listener a PropertyChangeListener

6.331.3.2 static void decaf::util::logging::LogManager::destroy () [static]

Forcefully Delete the Instance of this **LogManager** (p. 1640) even if there are outstanding references.

6.331.3.3 static LogManager* decaf::util::logging::LogManager::getInstance () [static]

Get the singleton instance.

Returns:

Pointer to an instance of the Log Manager

6.331.3.4 virtual Logger* decaf::util::logging::LogManager::getLogger (const std::string & name) [virtual]

Retrieves or creates a new **Logger** (p. 1623) using the name specified a new logger inherits the configuration of the logger's parent if there is no configuration data for the logger.

Parameters:

name The name of the **Logger** (p. 1623).

6.331.3.5 virtual int decaf::util::logging::LogManager::getLoggerNames (const std::vector< std::string > & names) [virtual]

Gets a list of known **Logger** (p. 1623) Names from this Manager.

Parameters:

names STL Vector to hold string logger names

Returns:

names count of how many loggers were inserted

6.331.3.6 virtual const util::Properties& decaf::util::logging::LogManager::getProperties () const [inline, virtual]

Gets a reference to the Logging **Properties** (p. 2140) used by this logger.

Returns:

The **Logger** (p. 1623) **Properties** (p. 2140) Pointer

6.331.3.7 virtual std::string decaf::util::logging::LogManager::getProperty (const std::string & name) [inline, virtual]

Gets the value of a named property of this **LogManager** (p. 1640).

Parameters:

name of the Property to retrieve

Returns:

the value of the property

References `decaf::util::Properties::getProperty()`.

6.331.3.8 `void decaf::util::logging::LogManager::operator= (const LogManager & manager)` [protected]

Assignment operator.

Parameters:

manager the manager to assign from

6.331.3.9 `virtual void decaf::util::logging::LogManager::removePropertyChangeListener (PropertyChangeListener * listener)` [virtual]

Removes a properties change listener from the **LogManager** (p. 1640).

Parameters:

listener a PropertyChangeListener

6.331.3.10 `static void decaf::util::logging::LogManager::returnInstance ()` [static]

Returns a Checked out instance of this Manager.

6.331.3.11 `virtual void decaf::util::logging::LogManager::setProperties (const util::Properties & properties)` [virtual]

Sets the **Properties** (p. 2140) this **LogManager** (p. 1640) should use to configure its loggers. Once set a properties change event is fired.

Parameters:

properties Pointer to read the configuration from

The documentation for this class was generated from the following file:

- `src/main/decaf/util/logging/LogManager.h`

6.332 decaf::util::logging::LogRecord Class Reference

```
#include <src/main/decaf/util/logging/LogRecord.h>
```

Public Member Functions

- **LogRecord** ()
- virtual **~LogRecord** ()
- **Level** **getLevel** () const
Get Level of this log record.
- void **setLevel** (**Level** value)
Set (p. 2320) the Level of this Log Record.
- const std::string & **getLoggerName** () const
Gets the Source Logger's Name.
- void **setLoggerName** (const std::string &loggerName)
Sets the Source Logger's Name.
- const std::string & **getSourceFile** () const
Gets the Source Log File name.
- void **setSourceFile** (const std::string &sourceFile)
Sets the Source Log File Name.
- unsigned long **getSourceLine** () const
Gets the Source Log line number.
- void **setSourceLine** (long sourceLine)
Sets the Source Log line number.
- const std::string & **getMessage** () const
Gets the Message to be Logged.
- void **setMessage** (const std::string &message)
Sets the Message to be Logged.
- const std::string & **getSourceFunction** () const
Gets the name of the function where this log was logged.
- void **setSourceFunction** (const std::string &functionName)
Sets the name of the function where this log was logged.
- unsigned long **getTimestamp** () const
Gets the time in mills that this message was logged.
- void **setTimestamp** (long timeStamp)
Sets the time in mills that this message was logged.

- unsigned long **getTreadId** () const
Gets the Thread Id where this Log was created.
- void **setTreadId** (long threadId)
Sets the Thread Id where this Log was created.

6.332.1 Constructor & Destructor Documentation

6.332.1.1 `decaf::util::logging::LogRecord::LogRecord ()` [inline]

6.332.1.2 `virtual decaf::util::logging::LogRecord::~~LogRecord ()` [inline, virtual]

6.332.2 Member Function Documentation

6.332.2.1 `Level decaf::util::logging::LogRecord::getLevel () const` [inline]

Get Level of this log record.

Returns:

Level enumeration value.

6.332.2.2 `const std::string& decaf::util::logging::LogRecord::getLoggerName () const` [inline]

Gets the Source Logger's Name.

Returns:

the source loggers name

6.332.2.3 `const std::string& decaf::util::logging::LogRecord::getMessage () const` [inline]

Gets the Message to be Logged.

Returns:

the source logger's message

Referenced by `decaf::util::logging::SimpleFormatter::formatMessage()`.

6.332.2.4 `const std::string& decaf::util::logging::LogRecord::getSourceFile () const` [inline]

Gets the Source Log File name.

Returns:

the source loggers name

6.332.2.5 `const std::string& decaf::util::logging::LogRecord::getSourceFunction () const [inline]`

Gets the name of the function where this log was logged.

Returns:

the source logger's message

6.332.2.6 `unsigned long decaf::util::logging::LogRecord::getSourceLine () const [inline]`

Gets the Source Log line number.

Returns:

the source loggers line number

6.332.2.7 `unsigned long decaf::util::logging::LogRecord::getTimestamp () const [inline]`

Gets the time in mills that this message was logged.

Returns:

UTC time in milliseconds

6.332.2.8 `unsigned long decaf::util::logging::LogRecord::getTreadId () const [inline]`

Gets the Thread Id where this Log was created.

Returns:

the source loggers line number

6.332.2.9 `void decaf::util::logging::LogRecord::setLevel (Level value) [inline]`

Set (p. 2320) the Level of this Log Record.

Parameters:

value Level Enumeration Value

6.332.2.10 `void decaf::util::logging::LogRecord::setLoggerName (const std::string & loggerName) [inline]`

Sets the Source Logger's Name.

Parameters:

loggerName the source loggers name

6.332.2.11 `void decaf::util::logging::LogRecord::setMessage (const std::string & message) [inline]`

Sets the Message to be Logged.

Parameters:

message the source loggers message

6.332.2.12 `void decaf::util::logging::LogRecord::setSourceFile (const std::string & sourceFile) [inline]`

Sets the Source Log File Name.

Parameters:

sourceFile the source loggers name

6.332.2.13 `void decaf::util::logging::LogRecord::setSourceFunction (const std::string & functionName) [inline]`

Sets the name of the function where this log was logged.

Parameters:

functionName the source of the log

6.332.2.14 `void decaf::util::logging::LogRecord::setSourceLine (long sourceLine) [inline]`

Sets the Source Log line number.

Parameters:

sourceLine the source logger's line number

6.332.2.15 `void decaf::util::logging::LogRecord::setTimestamp (long timeStamp) [inline]`

Sets the time in mills that this message was logged.

Parameters:

timeStamp UTC Time in Milliseconds.

6.332.2.16 `void decaf::util::logging::LogRecord::setTreadId (long threadId) [inline]`

Sets the Thread Id where this Log was created.

Parameters:

threadId the source logger's line number

The documentation for this class was generated from the following file:

- src/main/decaf/util/logging/**LogRecord.h**

6.333 decaf::util::logging::LogWriter Class Reference

```
#include <src/main/decaf/util/logging/LogWriter.h>
```

Public Member Functions

- **LogWriter** ()
- virtual **~LogWriter** ()
- virtual void **log** (const std::string &file, const int line, const std::string &prefix, const std::string &message)
Writes a message to the output destination.
- virtual void **log** (const std::string &message)
Writes a message to the output destination.

Static Public Member Functions

- static **LogWriter & getInstance** ()
Get the singleton instance.
- static void **returnInstance** ()
Returns a Checked out instance of this Writer.
- static void **destroy** ()
*Forcefully Delete the Instance of this **LogWriter** (p. 1650) even if there are outstanding references.*

6.333.1 Constructor & Destructor Documentation

6.333.1.1 decaf::util::logging::LogWriter::LogWriter ()

6.333.1.2 virtual decaf::util::logging::LogWriter::~~LogWriter () [virtual]

6.333.2 Member Function Documentation

6.333.2.1 static void decaf::util::logging::LogWriter::destroy () [static]

Forcefully Delete the Instance of this **LogWriter** (p. 1650) even if there are outstanding references.

6.333.2.2 static LogWriter& decaf::util::logging::LogWriter::getInstance ()
[static]

Get the singleton instance.

6.333.2.3 virtual void decaf::util::logging::LogWriter::log (const std::string & *message*) [virtual]

Writes a message to the output destination.

Parameters:

message

6.333.2.4 virtual void decaf::util::logging::LogWriter::log (const std::string & *file*, const int *line*, const std::string & *prefix*, const std::string & *message*) [virtual]

Writes a message to the output destination.

Parameters:

file

line

prefix

message

6.333.2.5 static void decaf::util::logging::LogWriter::returnInstance () [static]

Returns a Checked out instance of this Writer.

The documentation for this class was generated from the following file:

- src/main/decaf/util/logging/**LogWriter.h**

6.334 decaf::lang::Long Class Reference

#include <src/main/decaf/lang/Long.h> Inheritance diagram for decaf::lang::Long:

Public Member Functions

- **Long** (long long value)
- **Long** (const std::string &value) throw (exceptions::NumberFormatException)
- virtual ~**Long** ()
- virtual int **compareTo** (const **Long** &l) const
*Compares this **Long** (p. 1652) instance with another.*
- bool **equals** (const **Long** &l) const
- virtual bool **operator==** (const **Long** &l) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Long** &l) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual int **compareTo** (const long long &l) const
*Compares this **Long** (p. 1652) instance with another.*
- bool **equals** (const long long &l) const
- virtual bool **operator==** (const long long &l) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const long long &l) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- std::string **toString** () const
- virtual double **doubleValue** () const
Answers the double value which the receiver represents.
- virtual float **floatValue** () const
Answers the float value which the receiver represents.
- virtual unsigned char **byteValue** () const
Answers the byte value which the receiver represents.
- virtual short **shortValue** () const
Answers the short value which the receiver represents.
- virtual int **intValue** () const
Answers the int value which the receiver represents.
- virtual long long **longValue** () const
Answers the long value which the receiver represents.

Static Public Member Functions

- static int **bitCount** (long long value)
Returns the number of one-bits in the two's complement binary representation of the specified int value.
- static **Long decode** (const std::string &value) throw (exceptions::NumberFormatException)
*Decodes a String into a **Long** (p. 1652).*
- static long long **highestOneBit** (long long value)
Returns an long long value with at most a single one-bit, in the position of the highest-order ("leftmost") one-bit in the specified int value.
- static long long **lowestOneBit** (long long value)
Returns an long long value with at most a single one-bit, in the position of the lowest-order ("rightmost") one-bit in the specified int value.
- static int **numberOfLeadingZeros** (long long value)
Returns the number of zero bits preceding the highest-order ("leftmost") one-bit in the two's complement binary representation of the specified long long value.
- static int **numberOfTrailingZeros** (long long value)
Returns the number of zero bits following the lowest-order ("rightmost") one-bit in the two's complement binary representation of the specified long long value.
- static long long **parseLong** (const std::string &value) throw (exceptions::NumberFormatException)
Parses the string argument as a signed decimal long.
- static long long **parseLong** (const std::string &value, int radix) throw (exceptions::NumberFormatException)
*Returns a **Long** (p. 1652) object holding the value extracted from the specified string when parsed with the radix given by the second argument.*
- static long long **reverseBytes** (long long value)
Returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified long long value.
- static long long **reverse** (long long value)
Returns the value obtained by reversing the order of the bits in the two's complement binary representation of the specified long long value.
- static long long **rotateLeft** (long long value, int distance)
Returns the value obtained by rotating the two's complement binary representation of the specified value left by the specified number of bits.
- static long long **rotateRight** (long long value, int distance)
Returns the value obtained by rotating the two's complement binary representation of the specified value right by the specified number of bits.
- static int **signum** (long long value)

Returns the signum function of the specified value.

- static std::string **toString** (long long value)

Converts the long to a String representation.

- static std::string **toString** (long long value, int radix)
- static std::string **toHexString** (long long value)

Returns a string representation of the integer argument as an unsigned integer in base 16.

- static std::string **toOctalString** (long long value)

Returns a string representation of the long long argument as an unsigned long long in base 8.

- static std::string **toBinaryString** (long long value)

Returns a string representation of the long long argument as an unsigned long long in base 2.

- static **Long** **valueOf** (long long value)

*Returns a **Long** (p. 1652) instance representing the specified int value.*

- static **Long** **valueOf** (const std::string &value) throw (exceptions::NumberFormatException)

*Returns a **Long** (p. 1652) object holding the value given by the specified std::string.*

- static **Long** **valueOf** (const std::string &value, int radix) throw (exceptions::NumberFormatException)

*Returns a **Long** (p. 1652) object holding the value extracted from the specified std::string when parsed with the radix given by the second argument.*

Static Public Attributes

- static const int **SIZE** = 64

The size in bits of the primitive long long type.

- static const long long **MAX_VALUE** = (long long)0x7FFFFFFFFFFFFFFFFFLL

The maximum value that the primitive type can hold.

- static const long long **MIN_VALUE** = (long long)0x8000000000000000LL

The minimum value that the primitive type can hold.

6.334.1 Constructor & Destructor Documentation

6.334.1.1 decaf::lang::Long::Long (long long value)

Parameters:

value - the primitive long long to wrap

6.334.1.2 decaf::lang::Long::Long (const std::string & *value*) throw (exceptions::NumberFormatException)

Parameters:

value - the long long formatted string to wrap

Exceptions:

NumberFormatException

6.334.1.3 virtual decaf::lang::Long::~~Long () [inline, virtual]

6.334.2 Member Function Documentation

6.334.2.1 static int decaf::lang::Long::bitCount (long long *value*) [static]

Returns the number of one-bits in the two's complement binary representation of the specified int value. This function is sometimes referred to as the population count.

Parameters:

value - the long long to count

Returns:

the number of one-bits in the two's complement binary representation of the specified long long value.

6.334.2.2 virtual unsigned char decaf::lang::Long::byteValue () const [inline, virtual]

Answers the byte value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from **decaf::lang::Number** (p. 1954).

6.334.2.3 virtual int decaf::lang::Long::compareTo (const long long & *l*) const [virtual]

Compares this **Long** (p. 1652) instance with another.

Parameters:

l - the **Integer** (p. 1428) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

Implements **decaf::lang::Comparable**< long long > (p. 899).

6.334.2.4 `virtual int decaf::lang::Long::compareTo (const Long & l) const` [virtual]

Compares this **Long** (p. 1652) instance with another.

Parameters:

l - the **Long** (p. 1652) instance to be compared

Returns:

zero if this object represents the same integer value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

6.334.2.5 `static Long decaf::lang::Long::decode (const std::string & value) throw (exceptions::NumberFormatException)` [static]

Decodes a String into a **Long** (p. 1652). Accepts decimal, hexadecimal, and octal numbers given by the following grammar:

The sequence of characters following an (optional) negative sign and/or radix specifier ("0x", "0X", "#", or leading zero) is parsed as by the Integer.parseInt method with the indicated radix (10, 16, or 8). This sequence of characters must represent a positive value or a NumberFormatException will be thrown. The result is negated if first character of the specified String is the minus sign. No whitespace characters are permitted in the string.

Parameters:

value - The string to decode

Returns:

a **Long** (p. 1652) object containing the decoded value

Exceptions:

NumberFormatException if the string is not formatted correctly.

6.334.2.6 `virtual double decaf::lang::Long::doubleValue () const` [inline, virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implements `decaf::lang::Number` (p. 1955).

6.334.2.7 `bool decaf::lang::Long::equals (const long long & l) const` [inline, virtual]

Parameters:

l - the **Long** (p. 1652) object to compare against.

Returns:

true if the two **Integer** (p.1428) Objects have the same value.

Implements **decaf::lang::Comparable**< **long long** > (p.900).

6.334.2.8 bool decaf::lang::Long::equals (const Long & l) const [inline]**Parameters:**

l - the **Long** (p.1652) object to compare against.

Returns:

true if the two **Integer** (p.1428) Objects have the same value.

6.334.2.9 virtual float decaf::lang::Long::floatValue () const [inline, virtual]

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.334.2.10 static long long decaf::lang::Long::highestOneBit (long long value) [static]

Returns an long long value with at most a single one-bit, in the position of the highest-order ("leftmost") one-bit in the specified int value. Returns zero if the specified value has no one-bits in its two's complement binary representation, that is, if it is equal to zero.

Parameters:

value - the long long to be inspected

Returns:

an long long value with a single one-bit, in the position of the highest-order one-bit in the specified value, or zero if the specified value is itself equal to zero.

6.334.2.11 virtual int decaf::lang::Long::intValue () const [inline, virtual]

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.334.2.12 `virtual long long decaf::lang::Long::longValue () const [inline, virtual]`

Answers the long value which the receiver represents.

Returns:

long the value of the receiver.

Implements `decaf::lang::Number` (p.1955).

6.334.2.13 `static long long decaf::lang::Long::lowestOneBit (long long value) [static]`

Returns an long long value with at most a single one-bit, in the position of the lowest-order ("rightmost") one-bit in the specified int value. Returns zero if the specified value has no one-bits in its two's complement binary representation, that is, if it is equal to zero.

Parameters:

value - the long long to be inspected

Returns:

an long long value with a single one-bit, in the position of the lowest-order one-bit in the specified value, or zero if the specified value is itself equal to zero.

6.334.2.14 `static int decaf::lang::Long::numberOfLeadingZeros (long long value) [static]`

Returns the number of zero bits preceding the highest-order ("leftmost") one-bit in the two's complement binary representation of the specified long long value. Returns 64 if the specified value has no one-bits in its two's complement representation, in other words if it is equal to zero.

Note that this method is closely related to the logarithm base 2. For all positive int values x:

$\ast \text{floor}(\log_2(x)) = 63 - \text{numberOfLeadingZeros}(x) \ast \text{ceil}(\log_2(x)) = 64 - \text{numberOfLeadingZeros}(x) - 1$

Parameters:

value - the long long to be inspected

Returns:

the number of zero bits preceding the highest-order ("leftmost") one-bit in the two's complement binary representation of the specified long long value, or 64 if the value is equal to zero.

6.334.2.15 `static int decaf::lang::Long::numberOfTrailingZeros (long long value) [static]`

Returns the number of zero bits following the lowest-order ("rightmost") one-bit in the two's complement binary representation of the specified long long value. Returns 64 if the specified value has no one-bits in its two's complement representation, in other words if it is equal to zero.

Parameters:

value - the int to be inspected

Returns:

the number of zero bits following the lowest-order ("rightmost") one-bit in the two's complement binary representation of the specified long long value, or 64 if the value is equal to zero.

6.334.2.16 `virtual bool decaf::lang::Long::operator< (const long long & l) const`
[inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

l - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements `decaf::lang::Comparable< long long >` (p. 900).

6.334.2.17 `virtual bool decaf::lang::Long::operator< (const Long & l) const`
[inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

l - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.334.2.18 `virtual bool decaf::lang::Long::operator== (const long long & l) const`
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

l - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements `decaf::lang::Comparable< long long >` (p. 901).

6.334.2.19 `virtual bool decaf::lang::Long::operator== (const Long & l) const`
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

l - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.334.2.20 `static long long decaf::lang::Long::parseLong (const std::string & value,`
`int radix) throw (exceptions::NumberFormatException)` [static]

Returns a **Long** (p. 1652) object holding the value extracted from the specified string when parsed with the radix given by the second argument. The first argument is interpreted as representing a signed long in the radix specified by the second argument, exactly as if the arguments were given to the `parseLong(std::string, int)` method. The result is a **Long** (p. 1652) object that represents the long long value specified by the string.

Parameters:

value - String to parse

radix - the base encoding of the string

Returns:

long long value

Exceptions:

NumberFormatException on invalid string value

6.334.2.21 `static long long decaf::lang::Long::parseLong (const std::string & value)`
`throw (exceptions::NumberFormatException)` [static]

Parses the string argument as a signed decimal long. The characters in the string must all be decimal digits, except that the first character may be an ASCII minus sign '-' to indicate a negative value. The resulting long value is returned, exactly as if the argument and the radix 10 were given as arguments to the `parseLong(java.lang.String, int)` method.

Note that the characters LL or ULL are not permitted to appear at the end of this string as would normally be permitted in a C++ program.

Parameters:

value - String to parse

Returns:

long long value

Exceptions:

NumberFormatException on invalid string value

6.334.2.22 static long long decaf::lang::Long::reverse (long long *value*) [static]

Returns the value obtained by reversing the order of the bits in the two's complement binary representation of the specified long long value.

Parameters:

value - the value whose bits are to be reversed

Returns:

the reversed bits long long.

6.334.2.23 static long long decaf::lang::Long::reverseBytes (long long *value*) [static]

Returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified long long value.

Parameters:

value - the long long whose bytes we are to reverse

Returns:

the reversed long long.

6.334.2.24 static long long decaf::lang::Long::rotateLeft (long long *value*, int *distance*) [static]

Returns the value obtained by rotating the two's complement binary representation of the specified value left by the specified number of bits. (Bits shifted out of the left hand, or high-order, side reenter on the right, or low-order.)

Note that left rotation with a negative distance is equivalent to right rotation: rotateLeft(val, -distance) == rotateRight(val, distance). Note also that rotation by any multiple of 32 is a no-op, so all but the last five bits of the rotation distance can be ignored, even if the distance is negative: rotateLeft(val, distance) == rotateLeft(val, distance & 0x1F).

Parameters:

value - the long long to be inspected

distance - the number of bits to rotate

Returns:

the value obtained by rotating the two's complement binary representation of the specified value left by the specified number of bits.

6.334.2.25 static long long decaf::lang::Long::rotateRight (long long *value*, int *distance*) [static]

Returns the value obtained by rotating the two's complement binary representation of the specified value right by the specified number of bits. (Bits shifted out of the right hand, or low-order, side reenter on the left, or high-order.)

Note that right rotation with a negative distance is equivalent to left rotation: `rotateRight(val, -distance) == rotateLeft(val, distance)`. Note also that rotation by any multiple of 32 is a no-op, so all but the last five bits of the rotation distance can be ignored, even if the distance is negative: `rotateRight(val, distance) == rotateRight(val, distance & 0x1F)`.

Parameters:

value - the long long to be inspected
distance - the number of bits to rotate

Returns:

the value obtained by rotating the two's complement binary representation of the specified value right by the specified number of bits.

6.334.2.26 `virtual short decaf::lang::Long::shortValue () const [inline, virtual]`

Answers the short value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from `decaf::lang::Number` (p.1956).

6.334.2.27 `static int decaf::lang::Long::signum (long long value) [static]`

Returns the signum function of the specified value. (The return value is -1 if the specified value is negative; 0 if the specified value is zero; and 1 if the specified value is positive.)

Parameters:

value - the long long to be inspected

Returns:

the signum function of the specified long long value.

6.334.2.28 `static std::string decaf::lang::Long::toBinaryString (long long value) [static]`

Returns a string representation of the long long argument as an unsigned long long in base 2. The unsigned long long value is the argument plus 2^{32} if the argument is negative; otherwise it is equal to the argument. This value is converted to a string of ASCII digits in binary (base 2) with no extra leading 0s. If the unsigned magnitude is zero, it is represented by a single zero character '0'; otherwise, the first character of the representation of the unsigned magnitude will not be the zero character. The characters '0' and '1' are used as binary digits.

Parameters:

value - the long long to be translated to a binary string

Returns:

the unsigned long long value as a binary string

6.334.2.29 `static std::string decaf::lang::Long::toHexString (long long value)`
 [static]

Returns a string representation of the integer argument as an unsigned integer in base 16. The unsigned integer value is the argument plus 2^{32} if the argument is negative; otherwise, it is equal to the argument. This value is converted to a string of ASCII digits in hexadecimal (base 16) with no extra leading 0s. If the unsigned magnitude is zero, it is represented by a single zero character '0'; otherwise, the first character of the representation of the unsigned magnitude will not be the zero character. The following characters are used as hexadecimal digits:

0123456789abcdef

If uppercase letters are desired, the `toUpperCase()` method may be called on the result:

Parameters:

value - the long long to be translated to an Octal string

Returns:

the unsigned long long value as a Octal string

6.334.2.30 `static std::string decaf::lang::Long::toOctalString (long long value)`
 [static]

Returns a string representation of the long long argument as an unsigned long long in base 8. The unsigned long long value is the argument plus 2^{32} if the argument is negative; otherwise, it is equal to the argument. This value is converted to a string of ASCII digits in octal (base 8) with no extra leading 0s.

If the unsigned magnitude is zero, it is represented by a single zero character '0'; otherwise, the first character of the representation of the unsigned magnitude will not be the zero character. The following characters are used as octal digits:

01234567

Parameters:

value - the long long to be translated to an Octal string

Returns:

the unsigned long long value as a Octal string

6.334.2.31 `static std::string decaf::lang::Long::toString (long long value, int radix)`
 [static]**6.334.2.32** `static std::string decaf::lang::Long::toString (long long value)` [static]

Converts the long to a String representation.

Parameters:

value The long to convert to a std::string.

Returns:

string representation

6.334.2.33 `std::string decaf::lang::Long::toString () const`**Returns:**

this **Long** (p.1652) Object as a String Representation

6.334.2.34 `static Long decaf::lang::Long::valueOf (const std::string & value, int radix) throw (exceptions::NumberFormatException) [static]`

Returns a **Long** (p.1652) object holding the value extracted from the specified `std::string` when parsed with the radix given by the second argument. The first argument is interpreted as representing a signed long long in the radix specified by the second argument, exactly as if the argument were given to the `parseLong(std::string, int)` method. The result is a **Long** (p.1652) object that represents the long long value specified by the string.

Parameters:

value - `std::string` to parse as base (radix)

radix - base of the string to parse.

Returns:

new **Long** (p.1652) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a valid long long.

6.334.2.35 `static Long decaf::lang::Long::valueOf (const std::string & value) throw (exceptions::NumberFormatException) [static]`

Returns a **Long** (p.1652) object holding the value given by the specified `std::string`. The argument is interpreted as representing a signed decimal long long, exactly as if the argument were given to the `parseLong(std::string)` method. The result is a **Integer** (p.1428) object that represents the long long value specified by the string.

Parameters:

value - `std::string` to parse as base 10

Returns:

new **Long** (p.1652) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a decimal long long.

6.334.2.36 `static Long decaf::lang::Long::valueOf (long long value) [inline, static]`

Returns a **Long** (p.1652) instance representing the specified `int` value.

Parameters:

value - the long long to wrap

Returns:

the new **Integer** (p. 1428) object wrapping value.

6.334.3 Field Documentation

6.334.3.1 `const long long decaf::lang::Long::MAX_VALUE = (long long)0x7FFFFFFFFFFFFFFFFLL [static]`

The maximum value that the primitive type can hold.

6.334.3.2 `const long long decaf::lang::Long::MIN_VALUE = (long long)0x8000000000000000LL [static]`

The minimum value that the primitive type can hold.

6.334.3.3 `const int decaf::lang::Long::SIZE = 64 [static]`

The size in bits of the primitive long long type.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Long.h`

6.335 decaf::internal::nio::LongArrayBuffer Class Reference

#include <src/main/decaf/internal/nio/LongArrayBuffer.h> Inheritance diagram for decaf::internal::nio::LongArrayBuffer:

Public Member Functions

- **LongArrayBuffer** (std::size_t capacity, bool readOnly=false)
*Creates a **IntArrayBuffer** (p. 1410) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*
- **LongArrayBuffer** (long long *array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::NullPointerException)
*Creates a **LongArrayBuffer** (p. 1666) object that wraps the given array.*
- **LongArrayBuffer** (ByteArrayPerspective &array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
*Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset.*
- **LongArrayBuffer** (const LongArrayBuffer &other)
*Create a **LongArrayBuffer** (p. 1666) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.*
- virtual ~**LongArrayBuffer** ()
- virtual long long * **array** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the long long array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual LongBuffer * **asReadOnlyBuffer** () const
Creates a new, read-only long long buffer that shares this buffer's content.
- virtual LongBuffer & **compact** () throw (decaf::nio::ReadOnlyBufferException)
Compacts this buffer.
- virtual LongBuffer * **duplicate** ()
Creates a new long long buffer that shares this buffer's content.
- virtual long long **get** () throw (decaf::nio::BufferUnderflowException)
Relative get method.
- virtual long long **get** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Absolute get method.

- virtual bool **hasArray** () const
Tells whether or not this buffer is backed by an accessible long long array.
- virtual bool **isReadOnly** () const
Tells whether or not this buffer is read-only.
- virtual LongBuffer & **put** (long long value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the current position, and then increments the position.
- virtual LongBuffer & **put** (std::size_t index, long long value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the given index.
- virtual LongBuffer * **slice** () const
Creates a new LongBuffer whose content is a shared subsequence of this buffer's content.

Protected Member Functions

- virtual void **setReadOnly** (bool value)
*Sets this **ByteBuffer** (p. 694) as Read-Only.*

6.335.1 Constructor & Destructor Documentation

6.335.1.1 decaf::internal::nio::LongArrayBuffer::LongArrayBuffer (std::size_t capacity, bool readOnly = false)

Creates a **IntArrayBuffer** (p. 1410) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

6.335.1.2 decaf::internal::nio::LongArrayBuffer::LongArrayBuffer (long long * array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::NullPointerException)

Creates a **LongArrayBuffer** (p. 1666) object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

offset - the position that is this buffers start pos.

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

Exceptions:

NullPointerException if buffer is NULL

6.335.1.3 `decaf::internal::nio::LongArrayBuffer::LongArrayBuffer (ByteArrayPerspective & array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)`

Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset. The capacity and limit of the new **LongArrayBuffer** (p. 1666) will be that of the remaining capacity of the passed buffer.

Parameters:

array - the **ByteArrayPerspective** (p. 729) to wrap

offset - the offset into array where the buffer starts

capacity - the length of the array we are wrapping or limit.

readOnly - is this a readOnly buffer.

Exceptions:

IndexOutOfBoundsException if offset is greater than array capacity.

6.335.1.4 `decaf::internal::nio::LongArrayBuffer::LongArrayBuffer (const LongArrayBuffer & other)`

Create a **LongArrayBuffer** (p. 1666) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.

Parameters:

other - the **LongArrayBuffer** (p. 1666) this one is to mirror.

6.335.1.5 `virtual decaf::internal::nio::LongArrayBuffer::~~LongArrayBuffer () [virtual]`

6.335.2 Member Function Documentation

6.335.2.1 `virtual long long* decaf::internal::nio::LongArrayBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the long long array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this Buffer

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::LongBuffer** (p. 1677).

6.335.2.2 `virtual std::size_t decaf::internal::nio::LongArrayBuffer::arrayOffset
() throw (decaf::lang::exceptions::UnsupportedOperationException,
decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::LongBuffer** (p. 1677).

6.335.2.3 `virtual LongBuffer* de-
caf::internal::nio::LongArrayBuffer::asReadOnlyBuffer ()
const [virtual]`

Creates a new, read-only long long buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only long long buffer which the caller then owns.

Implements **decaf::nio::LongBuffer** (p. 1677).

6.335.2.4 `virtual LongBuffer& decaf::internal::nio::LongArrayBuffer::compact ()
throw (decaf::nio::ReadOnlyBufferException) [virtual]`

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index `p = position()` (p. 631) is copied

to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index **limit()** (p. 631) - 1 is copied to index $n = \text{limit}() - 1 - p$. The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this LongBuffer

Exceptions:

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::LongBuffer** (p. 1678).

6.335.2.5 virtual LongBuffer* decaf::internal::nio::LongArrayBuffer::duplicate ()
[virtual]

Creates a new long long buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new long long Buffer which the caller owns.

Implements **decaf::nio::LongBuffer** (p. 1678).

6.335.2.6 virtual long long decaf::internal::nio::LongArrayBuffer::get (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)
[virtual]

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the Buffer where the long long is to be read

Returns:

the long long that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::LongBuffer** (p. 1680).

6.335.2.7 virtual long long decaf::internal::nio::LongArrayBuffer::get () throw (decaf::nio::BufferUnderflowException) [virtual]

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the long long at the current position

Exceptions:

BufferUnderflowException if there no more data to return

Implements **decaf::nio::LongBuffer** (p. 1680).

6.335.2.8 virtual bool decaf::internal::nio::LongArrayBuffer::hasArray () const [inline, virtual]

Tells whether or not this buffer is backed by an accessible long long array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implements **decaf::nio::LongBuffer** (p. 1680).

6.335.2.9 virtual bool decaf::internal::nio::LongArrayBuffer::isReadOnly () const [inline, virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::Buffer** (p. 630).

6.335.2.10 virtual LongBuffer& decaf::internal::nio::LongArrayBuffer::put (std::size_t *index*, long long *value*) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes the given doubles into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the doubles to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::LongBuffer** (p. 1681).

6.335.2.11 **virtual LongBuffer& decaf::internal::nio::LongArrayBuffer::put (long long *value*) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)** [virtual]

Writes the given doubles into this buffer at the current position, and then increments the position.

Parameters:

value - the doubles value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::LongBuffer** (p. 1681).

6.335.2.12 **virtual void decaf::internal::nio::LongArrayBuffer::setReadOnly (bool *value*)** [inline, protected, virtual]

Sets this **ByteBuffer** (p. 694) as Read-Only.

Parameters:

value - true if this buffer is to be read-only.

6.335.2.13 **virtual LongBuffer* decaf::internal::nio::LongArrayBuffer::slice () const** [virtual]

Creates a new **LongBuffer** whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **LongBuffer** which the caller owns.

Implements **decaf::nio::LongBuffer** (p. 1683).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/nio/LongArrayBuffer.h`

6.336 decaf::nio::LongBuffer Class Reference

This class defines four categories of operations upon long long buffers:.

```
#include <src/main/decaf/nio/LongBuffer.h>
Inheritance diagram for decaf::nio::LongBuffer:
```

Public Member Functions

- virtual **~LongBuffer** ()
- virtual std::string **toString** () const
- virtual long long * **array** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the long long array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual **LongBuffer** * **asReadOnlyBuffer** () const =0
Creates a new, read-only long long buffer that shares this buffer's content.
- virtual **LongBuffer** & **compact** ()=0 throw (ReadOnlyBufferException)
Compacts this buffer.
- virtual **LongBuffer** * **duplicate** ()=0
Creates a new long long buffer that shares this buffer's content.
- virtual long long **get** ()=0 throw (BufferUnderflowException)
Relative get method.
- virtual long long **get** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- **LongBuffer** & **get** (std::vector< long long > buffer) throw (BufferUnderflowException)
Relative bulk get method.
- **LongBuffer** & **get** (long long *buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)
Relative bulk get method.
- virtual bool **hasArray** () const =0
Tells whether or not this buffer is backed by an accessible long long array.
- **LongBuffer** & **put** (**LongBuffer** &src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)
This method transfers the long longs remaining in the given source buffer long longo this buffer.

- **LongBuffer** & **put** (const long long *buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)

This method transfers long longs long longo this buffer from the given source array.

- **LongBuffer** & **put** (std::vector< long long > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)

This method transfers the entire content of the given source long longs array long longo this buffer.

- virtual **LongBuffer** & **put** (long long value)=0 throw (BufferOverflowException, ReadOnlyBufferException)

Writes the given long longs long longo this buffer at the current position, and then increments the position.

- virtual **LongBuffer** & **put** (std::size_t index, long long value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)

Writes the given long longs long longo this buffer at the given index.

- virtual **LongBuffer** * **slice** () const =0

*Creates a new **LongBuffer** (p. 1674) whose content is a shared subsequence of this buffer's content.*

- virtual int **compareTo** (const **LongBuffer** &value) const

Compares this object with the specified object for order.

- virtual bool **equals** (const **LongBuffer** &value) const

- virtual bool **operator==** (const **LongBuffer** &value) const

Compares equality between this object and the one passed.

- virtual bool **operator<** (const **LongBuffer** &value) const

Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static **LongBuffer** * **allocate** (std::size_t capacity)

Allocates a new Double buffer.

- static **LongBuffer** * **wrap** (long long *array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)

*Wraps the passed buffer with a new **LongBuffer** (p. 1674).*

- static **LongBuffer** * **wrap** (std::vector< long long > &buffer)

*Wraps the passed STL long long Vector in a **LongBuffer** (p. 1674).*

Protected Member Functions

- **LongBuffer** (std::size_t capacity)

*Creates a **LongBuffer** (p. 1674) object that has its backing array allocated long longernally and is then owned and deleted when this object is deleted.*

6.336.1 Detailed Description

This class defines four categories of operations upon long long buffers:.

- o Absolute and relative get and put methods that read and write single long longs;
- o Relative bulk get methods that transfer contiguous sequences of long longs from this buffer long longo an array;
- and o Relative bulk put methods that transfer contiguous sequences of long longs from a long long array or some other long long buffer long longo this buffer
- o Methods for compacting, duplicating, and slicing a long long buffer.

Double buffers can be created either by allocation, which allocates space for the buffer's content, by wrapping an existing long long array long longo a buffer, or by creating a view of an existing byte buffer

Methods in this class that do not otherwise have a value to return are specified to return the buffer upon which they are invoked. This allows method invocations to be chained.

6.336.2 Constructor & Destructor Documentation

6.336.2.1 decaf::nio::LongBuffer::LongBuffer (std::size_t capacity) [protected]

Creates a **LongBuffer** (p. 1674) object that has its backing array allocated long longernally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size and limit of the **Buffer** (p. 627) in doubles

6.336.2.2 virtual decaf::nio::LongBuffer::~~LongBuffer () [inline, virtual]

6.336.3 Member Function Documentation

6.336.3.1 static LongBuffer* decaf::nio::LongBuffer::allocate (std::size_t capacity) [static]

Allocates a new Double buffer. The new buffer's position will be zero, its limit will be its capacity, and its mark will be undefined. It will have a backing array, and its array offset will be zero.

Parameters:

capacity - The size of the Double buffer in long longs

Returns:

the **LongBuffer** (p. 1674) that was allocated, caller owns.

6.336.3.2 virtual long long* decaf::nio::LongBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the long long array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the hasArray method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this **Buffer** (p. 627)

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1668).

6.336.3.3 virtual std::size_t decaf::nio::LongBuffer::arrayOffset () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the hasArray method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset long longo the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1669).

6.336.3.4 virtual LongBuffer* decaf::nio::LongBuffer::asReadOnlyBuffer () const [pure virtual]

Creates a new, read-only long long buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the duplicate method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only long long buffer which the caller then owns.

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1669).

6.336.3.5 **virtual LongBuffer& decaf::nio::LongBuffer::compact () throw (ReadOnlyBufferException) [pure virtual]**

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \text{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index $\text{limit}()$ (p. 631) - 1 is copied to index $n = \text{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **LongBuffer** (p. 1674)

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1669).

6.336.3.6 **virtual int decaf::nio::LongBuffer::compareTo (const LongBuffer & value) const [virtual]**

Compares this object with the specified object for order. Returns a negative long longeger, zero, or a positive long longeger as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the Object to be compared.

Returns:

a negative long longeger, zero, or a positive long longeger as this object is less than, equal to, or greater than the specified object.

6.336.3.7 **virtual LongBuffer* decaf::nio::LongBuffer::duplicate () [pure virtual]**

Creates a new long long buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new long long **Buffer** (p. 627) which the caller owns.

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1670).

6.336.3.8 virtual bool decaf::nio::LongBuffer::equals (const LongBuffer & *value*) const [virtual]

Returns:

true if this value is considered equal to the passed value.

6.336.3.9 LongBuffer& decaf::nio::LongBuffer::get (long long * *buffer*, std::size_t *offset*, std::size_t *length*) throw (BufferUnderflowException, lang::exceptions::NullPointerException)

Relative bulk get method. This method transfers long longs from this buffer long longo the given destination array. If there are fewer long longs remaining in the buffer than are required to satisfy the request, that is, if *length* > **remaining()** (p. 632), then no bytes are transferred and a **BufferUnderflowException** (p. 661) is thrown.

Otherwise, this method copies *length* long longs from this buffer long longo the given array, starting at the current position of this buffer and at the given *offset* in the array. The position of this buffer is then incremented by *length*.

Parameters:

buffer - long longer to an allocated buffer to fill

offset - position in the buffer to start filling

length - amount of data to put in the passed buffer

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* long longs remaining in this buffer

NullPolong longerException if the passed buffer is null.

6.336.3.10 LongBuffer& decaf::nio::LongBuffer::get (std::vector< long long > *buffer*) throw (BufferUnderflowException)

Relative bulk get method. This method transfers values from this buffer long longo the given destination vector. An invocation of this method of the form *src.get(a)* behaves in exactly the same way as the invocation. The vector must be sized to the amount of data that is to be read, that is to say, the caller should call *buffer.resize(N)* before calling this get method.

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* long longs remaining in this buffer

6.336.3.11 `virtual long long decaf::nio::LongBuffer::get (std::size_t index) const
throw (lang::exceptions::IndexOutOfBoundsException) [pure
virtual]`

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the **Buffer** (p. 627) where the long long is to be read

Returns:

the long long that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1670).

6.336.3.12 `virtual long long decaf::nio::LongBuffer::get () throw (
BufferUnderflowException) [pure virtual]`

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the long long at the current position

Exceptions:

BufferUnderflowException (p. 661) if there no more data to return

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1671).

6.336.3.13 `virtual bool decaf::nio::LongBuffer::hasArray () const [pure virtual]`

Tells whether or not this buffer is backed by an accessible long long array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1671).

6.336.3.14 `virtual bool decaf::nio::LongBuffer::operator< (const LongBuffer &
value) const [virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.336.3.15 `virtual bool decaf::nio::LongBuffer::operator==(const LongBuffer &value) const` [virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.336.3.16 `virtual LongBuffer& decaf::nio::LongBuffer::put (std::size_t index, long long value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes the given long longs long longo this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the long longs to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1671).

6.336.3.17 `virtual LongBuffer& decaf::nio::LongBuffer::put (long long value) throw (BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes the given long longs long longo this buffer at the current position, and then increments the position.

Parameters:

value - the long longs value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1672).

6.336.3.18 **LongBuffer& decaf::nio::LongBuffer::put (std::vector< long long > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)**

This method transfers the entire content of the given source long longs array long longo this buffer. This is the same as calling `put(&buffer[0], 0, buffer.size()`

Parameters:

buffer - The buffer whose contents are copied to this **LongBuffer** (p. 1674)

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.336.3.19 **LongBuffer& decaf::nio::LongBuffer::put (const long long * buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)**

This method transfers long longs long longo this buffer from the given source array. If there are more long longs to be copied from the array than remain in this buffer, that is, if `length > remaining()` (p. 632), then no long longs are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `length` bytes from the given array long longo this buffer, starting at the given offset in the array and at the current position of this buffer. The position of this buffer is then incremented by `length`.

Parameters:

buffer- The array from which long longs are to be read

offset- The offset within the array of the first long long to be read;

length - The number of long longs to be read from the given array

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

NullPointerException if the passed buffer is null.

6.336.3.20 LongBuffer& decaf::nio::LongBuffer::put (LongBuffer & src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)

This method transfers the long longs remaining in the given source buffer long longo this buffer. If there are more long longs remaining in the source buffer than in this buffer, that is, if `src.remaining() > remaining()` (p. 632), then no long longs are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `n = src.remaining()` long longs from the given buffer long longo this buffer, starting at each buffer's current position. The positions of both buffers are then incremented by `n`.

Parameters:

src - the buffer to take long longs from an place in this one.

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer for the remaining long longs in the source buffer

IllegalArgumentException - If the source buffer is this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.336.3.21 virtual LongBuffer* decaf::nio::LongBuffer::slice () const [pure virtual]

Creates a new **LongBuffer** (p. 1674) whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **LongBuffer** (p. 1674) which the caller owns.

Implemented in **decaf::internal::nio::LongArrayBuffer** (p. 1672).

6.336.3.22 virtual std::string decaf::nio::LongBuffer::toString () const [virtual]

Returns:

a std::string describing this object

6.336.3.23 static LongBuffer* decaf::nio::LongBuffer::wrap (std::vector< long long > & *buffer*) [static]

Wraps the passed STL long long Vector in a **LongBuffer** (p. 1674). The new buffer will be backed by the given long long array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be buffer.size(), its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling vector.resize(N).

Returns:

a new **LongBuffer** (p. 1674) that is backed by buffer, caller owns.

6.336.3.24 static LongBuffer* decaf::nio::LongBuffer::wrap (long long * *array*, std::size_t *offset*, std::size_t *length*) throw (lang::exceptions::NullPointerException) [static]

Wraps the passed buffer with a new **LongBuffer** (p. 1674). The new buffer will be backed by the given long long array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be array.length, its position will be offset, its limit will be offset + length, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

array - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new **LongBuffer** (p. 1674) that is backed by buffer, caller owns.

The documentation for this class was generated from the following file:

- src/main/decaf/nio/**LongBuffer.h**

6.337 activemq::util::LongSequenceGenerator Class Reference

This class is used to generate a sequence of long long values that are incremented each time a new value is requested.

```
#include <src/main/activemq/util/LongSequenceGenerator.h>
```

Public Member Functions

- **LongSequenceGenerator** ()
- virtual **~LongSequenceGenerator** ()
- long long **getNextSequenceId** ()
- long long **getLastSequenceId** ()

6.337.1 Detailed Description

This class is used to generate a sequence of long long values that are incremented each time a new value is requested. This class is thread safe so the ids can be requested in different **threads** (p. 66) safely.

6.337.2 Constructor & Destructor Documentation

6.337.2.1 **activemq::util::LongSequenceGenerator::LongSequenceGenerator** ()

6.337.2.2 **virtual**
activemq::util::LongSequenceGenerator::~~LongSequenceGenerator ()
[inline, virtual]

6.337.3 Member Function Documentation

6.337.3.1 **long long activemq::util::LongSequenceGenerator::getLastSequenceId** ()

Returns:

the last id that was generated.

6.337.3.2 **long long activemq::util::LongSequenceGenerator::getNextSequenceId** ()

Returns:

the next id in the sequence.

The documentation for this class was generated from the following file:

- `src/main/activemq/util/LongSequenceGenerator.h`

6.338 decaf::net::MalformedURLException Class Reference

#include <src/main/decaf/net/MalformedURLException.h> Inheritance diagram for decaf::net::MalformedURLException:

Public Member Functions

- **MalformedURLException** () throw ()
Default Constructor.
- **MalformedURLException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **MalformedURLException** (const **MalformedURLException** &ex) throw ()
Copy Constructor.
- **MalformedURLException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **MalformedURLException** (const std::exception *cause) throw ()
Constructor.
- **MalformedURLException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **MalformedURLException** * clone () const
Clones this exception.
- virtual ~**MalformedURLException** () throw ()

6.338.1 Constructor & Destructor Documentation

6.338.1.1 decaf::net::MalformedURLException::MalformedURLException () throw () [inline]

Default Constructor.

6.338.1.2 decaf::net::MalformedURLException::MalformedURLException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.338.1.3 decaf::net::MalformedURLException::MalformedURLException (const MalformedURLException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.338.1.4 decaf::net::MalformedURLException::MalformedURLException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.338.1.5 decaf::net::MalformedURLException::MalformedURLException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.338.1.6 decaf::net::MalformedURLException::MalformedURLException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.338.1.7 `virtual decaf::net::MalformedURLException::~~MalformedURLException
() throw () [inline, virtual]`

6.338.2 Member Function Documentation

6.338.2.1 `virtual MalformedURLException* de-
caf::net::MalformedURLException::clone () const
[inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::io::IOException** (p. 1479).

The documentation for this class was generated from the following file:

- `src/main/decaf/net/MalformedURLException.h`

6.339 decaf::util::Map< K, V, COMPARATOR > Class Template Reference

Map (p.1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map.

#include <src/main/decaf/util/Map.h> Inheritance diagram for decaf::util::Map< K, V, COMPARATOR >:

Data Structures

- class **Entry**

Public Member Functions

- **Map** ()
Default constructor - does nothing.
- virtual ~**Map** ()
- virtual bool **equals** (const **Map** &source) const =0
Comparison, equality is dependent on the method of determining if the element are equal.
- virtual void **copy** (const **Map** &source)=0
Copies the content of the source map into this map.
- virtual void **clear** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException)
Removes all keys and values from this map.
- virtual bool **containsKey** (const K &key) const =0
Indicates whether or this map contains a value for the given key.
- virtual bool **containsValue** (const V &value) const =0
Indicates whether or this map contains a value for the given value, i.e.
- virtual bool **isEmpty** () const =0
- virtual std::size_t **size** () const =0
- virtual V & **get** (const K &key)=0 throw (lang::exceptions::NoSuchElementException)
*Gets the value mapped to the specified key in the **Map** (p.1689).*
- virtual const V & **get** (const K &key) const =0 throw (lang::exceptions::NoSuchElementException)
*Gets the value mapped to the specified key in the **Map** (p.1689).*
- virtual void **put** (const K &key, const V &value)=0 throw (decaf::lang::exceptions::UnsupportedOperationException)
Sets the value for the specified key.

- virtual void **putAll** (const **Map**< K, V, COMPARATOR > &other)=0 throw (decaf::lang::exceptions::UnsupportedOperationException)

*Stores a copy of the Mappings contained in the other **Map** (p. 1689) in this one.*

- virtual V **remove** (const K &key)=0 throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)

Removes the value (key/value pair) for the specified key from the map, returns a copy of the value that was mapped to the key.

- virtual std::vector< K > **keySet** () const =0

*Returns a **Set** (p. 2320) view of the mappings contained in this map.*

- virtual std::vector< V > **values** () const =0

6.339.1 Detailed Description

```
template<typename K, typename V, typename COMPARATOR = std::less<K>>
class decaf::util::Map< K, V, COMPARATOR >
```

Map (p. 1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map.

6.339.2 Constructor & Destructor Documentation

6.339.2.1 template<typename K, typename V, typename COMPARATOR = std::less<K>> decaf::util::Map< K, V, COMPARATOR >::Map () [inline]

Default constructor - does nothing.

6.339.2.2 template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual decaf::util::Map< K, V, COMPARATOR >::~~Map () [inline, virtual]

6.339.3 Member Function Documentation

6.339.3.1 template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::Map< K, V, COMPARATOR >::clear () throw (decaf::lang::exceptions::UnsupportedOperationException) [pure virtual]

Removes all keys and values from this map.

Exceptions:

UnsupportedOperationException if this map is unmodifiable.

Implemented in decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > (p. 922), decaf::util::StlMap< K, V, COMPARATOR >

(p. 2433), decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 922), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2433), decaf::util::StlMap< std::string, WireFormatFactory * > (p. 2433), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2433), decaf::util::StlMap< std::string, cms::Queue * > (p. 2433), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2433), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, TransportFactory * > (p. 2433), decaf::util::StlMap< int, Pointer< Command > > (p. 2433), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, CachedProducer * > (p. 2433), and decaf::util::StlMap< std::string, cms::Topic * > (p. 2433).

6.339.3.2 template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::Map< K, V, COMPARATOR >::containsKey (const K & *key*) const [pure virtual]

Indicates whether or this map contains a value for the given key.

Parameters:

key The key to look up.

Returns:

true if this map contains the value, otherwise false.

Implemented in decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > (p. 922), decaf::util::StlMap< K, V, COMPARATOR > (p. 2433), decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 922), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 922), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2433), decaf::util::StlMap< std::string,

WireFormatFactory * > (p. 2433), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2433), decaf::util::StlMap< std::string, cms::Queue * > (p. 2433), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2433), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, TransportFactory * > (p. 2433), decaf::util::StlMap< int, Pointer< Command > > (p. 2433), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, CachedProducer * > (p. 2433), and decaf::util::StlMap< std::string, cms::Topic * > (p. 2433).

6.339.3.3 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual bool decaf::util::Map< K, V, COMPARATOR
>::containsValue (const V & value) const [pure virtual]`

Indicates whether or this map contains a value for the given value, i.e. they are equal, this is done by operator== so the types must pass equivalence testing in this manner.

Parameters:

value The Value to look up.

Returns:

true if this map contains the value, otherwise false.

Implemented in decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > (p. 923), decaf::util::StlMap< K, V, COMPARATOR > (p. 2433), decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR > (p. 923), decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR > (p. 923), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR > (p. 923), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR > (p. 923), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 923), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 923), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2433), decaf::util::StlMap< std::string, WireFormatFactory * > (p. 2433), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2433), decaf::util::StlMap< std::string, cms::Queue * > (p. 2433), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2433), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, TransportFactory * > (p. 2433), decaf::util::StlMap< int, Pointer< Command > > (p. 2433), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2433), decaf::util::StlMap< std::string, CachedProducer * > (p. 2433), and decaf::util::StlMap< std::string, cms::Topic * > (p. 2433).

6.339.3.4 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual void decaf::util::Map< K, V, COMPARATOR
>::copy (const Map< K, V, COMPARATOR > & source) [pure
virtual]`

Copies the content of the source map into this map. Erases all existing data in this map.

Parameters:

source The source object to copy from.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 923), and `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2434).

6.339.3.5 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual bool decaf::util::Map< K, V, COMPARATOR
>::equals (const Map< K, V, COMPARATOR > & source) const [pure
virtual]`

Comparison, equality is dependent on the method of determining if the element are equal.

Parameters:

source - **Map** (p. 1689) to compare to this one.

Returns:

true if the **Map** (p. 1689) passed is equal in value to this one.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 924), and `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2434).

6.339.3.6 `template<typename K, typename V, typename COMPARATOR
= std::less<K>> virtual const V& decaf::util::Map< K,
V, COMPARATOR >::get (const K & key) const throw (
lang::exceptions::NoSuchElementException) [pure virtual]`

Gets the value mapped to the specified key in the **Map** (p. 1689). If there is no element in the map whose key is equivalent to the key provided then a `NoSuchElementException` is thrown.

Parameters:

key The search key.

Returns:

A {const} reference to the value for the given key.

Exceptions:

NoSuchElementException if the key requests doesn't exist in the **Map** (p. 1689).

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COM-
PARATOR >` (p. 924), `decaf::util::StlMap< K, V, COMPARATOR >`

> (p. 925), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 925), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 925), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2435), decaf::util::StlMap< std::string, WireFormatFactory * > (p. 2435), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2435), decaf::util::StlMap< std::string, cms::Queue * > (p. 2435), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2435), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2435), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2435), decaf::util::StlMap< std::string, TransportFactory * > (p. 2435), decaf::util::StlMap< int, Pointer< Command > > (p. 2435), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2435), decaf::util::StlMap< std::string, CachedProducer * > (p. 2435), and decaf::util::StlMap< std::string, cms::Topic * > (p. 2435).

Referenced by decaf::util::StlMap< std::string, cms::Topic * >::equals(), and decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::equals().

6.339.3.8 template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::Map< K, V, COMPARATOR >::isEmpty() const [pure virtual]

Returns:

if the **Map** (p. 1689) contains any element or not, TRUE or FALSE

Implemented in decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > (p. 925), decaf::util::StlMap< K, V, COMPARATOR > (p. 2435), decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR > (p. 925), decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR > (p. 925), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR > (p. 925), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR > (p. 925), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 925), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 925), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2435), decaf::util::StlMap< std::string, WireFormatFactory * > (p. 2435), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2435), decaf::util::StlMap< std::string, cms::Queue * > (p. 2435), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2435), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2435), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2435), decaf::util::StlMap< std::string, TransportFactory * > (p. 2435), decaf::util::StlMap< int, Pointer< Command > > (p. 2435), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2435), decaf::util::StlMap< std::string, CachedProducer * > (p. 2435), and

`decaf::util::StlMap< std::string, cms::Topic * >` (p. 2435).

6.339.3.9 `template<typename K, typename V, typename COMPARATOR
= std::less<K>> virtual std::vector<K> decaf::util::Map< K, V,
COMPARATOR >::keySet () const [pure virtual]`

Returns a **Set** (p. 2320) view of the mappings contained in this map. The set is backed by the map, so changes to the map are reflected in the set, and vice-versa. If the map is modified while an iteration over the set is in progress (except through the iterator's own remove operation, or through the set `Value` operation on a map entry returned by the iterator) the results of the iteration are undefined. The set supports element removal, which removes the corresponding mapping from the map, via the **Iterator.remove** (p. 1490), **Set.remove** (p. 130), `removeAll`, `retainAll` and `clear` operations. It does not support the `add` or `addAll` operations.

Returns:

the entire set of keys in this map as a `std::vector`.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 925), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2435), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 925), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 925), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 925), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 925), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 925), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 925), `decaf::util::StlMap< cms::Session *, SessionResolver * >` (p. 2435), `decaf::util::StlMap< std::string, WireFormatFactory * >` (p. 2435), `decaf::util::StlMap< std::string, PrimitiveValueNode >` (p. 2435), `decaf::util::StlMap< std::string, cms::Queue * >` (p. 2435), `decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR >` (p. 2435), `decaf::util::StlMap< std::string, CachedConsumer * >` (p. 2435), `decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2435), `decaf::util::StlMap< std::string, TransportFactory * >` (p. 2435), `decaf::util::StlMap< int, Pointer< Command > >` (p. 2435), `decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR >` (p. 2435), `decaf::util::StlMap< std::string, CachedProducer * >` (p. 2435), and `decaf::util::StlMap< std::string, cms::Topic * >` (p. 2435).

Referenced by `decaf::util::StlMap< std::string, cms::Topic * >::equals()`, and `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::equals()`.

6.339.3.10 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::Map< K, V, COMPARATOR >::put (const K & key, const V & value) throw (decaf::lang::exceptions::UnsupportedOperationException) [pure virtual]`

Sets the value for the specified key.

Parameters:

key The target key.

value The value to be set.

Exceptions:

UnsupportedOperationException if this map is unmodifiable.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 926), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2437), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 926), `decaf::util::StlMap< cms::Session *, SessionResolver * >` (p. 2437), `decaf::util::StlMap< std::string, WireFormatFactory * >` (p. 2437), `decaf::util::StlMap< std::string, PrimitiveValueNode >` (p. 2437), `decaf::util::StlMap< std::string, cms::Queue * >` (p. 2437), `decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR >` (p. 2437), `decaf::util::StlMap< std::string, CachedConsumer * >` (p. 2437), `decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2437), `decaf::util::StlMap< std::string, TransportFactory * >` (p. 2437), `decaf::util::StlMap< int, Pointer< Command > >` (p. 2437), `decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR >` (p. 2437), `decaf::util::StlMap< std::string, CachedProducer * >` (p. 2437), and `decaf::util::StlMap< std::string, cms::Topic * >` (p. 2437).

6.339.3.11 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::Map< K, V, COMPARATOR >::putAll (const Map< K, V, COMPARATOR > & other) throw (decaf::lang::exceptions::UnsupportedOperationException) [pure virtual]`

Stores a copy of the Mappings contained in the other **Map** (p. 1689) in this one.

Parameters:

other A **Map** (p. 1689) instance whose elements are to all be inserted in this **Map** (p. 1689).

Exceptions:

UnsupportedOperationException If the implementing class does not support the putAll operation.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 927), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2437), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 927), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 927), `decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR >` (p. 2437), `decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2437), and `decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR >` (p. 2437).

```
6.339.3.12  template<typename K, typename V, typename COMPARATOR
            = std::less<K>> virtual V decaf::util::Map< K, V,
            COMPARATOR >::remove (const K & key) throw
            ( decaf::lang::exceptions::NoSuchElementException,
            decaf::lang::exceptions::UnsupportedOperationException ) [pure
            virtual]
```

Removes the value (key/value pair) for the specified key from the map, returns a copy of the value that was mapped to the key.

Parameters:

key The search key.

Returns:

a copy of the element that was previously mapped to the given key

Exceptions:

NoSuchElementException if this key is not in the **Map** (p. 1689).

UnsupportedOperationException if this map is unmodifiable.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 929), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2438), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 929), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >`

(p. 929), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR > (p. 929), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR > (p. 929), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 929), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 929), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2438), decaf::util::StlMap< std::string, WireFormatFactory * > (p. 2438), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2438), decaf::util::StlMap< std::string, cms::Queue * > (p. 2438), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2438), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2438), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2438), decaf::util::StlMap< std::string, TransportFactory * > (p. 2438), decaf::util::StlMap< int, Pointer< Command > > (p. 2438), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2438), decaf::util::StlMap< std::string, CachedProducer * > (p. 2438), and decaf::util::StlMap< std::string, cms::Topic * > (p. 2438).

6.339.3.13 template<typename K, typename V, typename COMPARATOR
= std::less<K>> virtual std::size_t decaf::util::Map< K, V,
COMPARATOR >::size () const [pure virtual]

Returns:

The number of elements (key/value pairs) in this map.

Implemented in decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > (p. 930), decaf::util::StlMap< K, V, COMPARATOR > (p. 2438), decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR > (p. 930), decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR > (p. 930), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR > (p. 930), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR > (p. 930), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 930), decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 930), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2438), decaf::util::StlMap< std::string, WireFormatFactory * > (p. 2438), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2438), decaf::util::StlMap< std::string, cms::Queue * > (p. 2438), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2438), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2438), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2438), decaf::util::StlMap< std::string, TransportFactory * > (p. 2438), decaf::util::StlMap< int, Pointer< Command > > (p. 2438), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR >

> (p. 2438), `decaf::util::StlMap< std::string, CachedProducer * >` (p. 2438), and `decaf::util::StlMap< std::string, cms::Topic * >` (p. 2438).

6.339.3.14 `template<typename K, typename V, typename COMPARATOR
= std::less<K>> virtual std::vector<V> decaf::util::Map< K, V,
COMPARATOR >::values () const [pure virtual]`

Returns:

the entire set of values in this map as a `std::vector`.

Implemented in `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 931), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2438), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 931), `decaf::util::StlMap< cms::Session *, SessionResolver * >` (p. 2438), `decaf::util::StlMap< std::string, WireFormatFactory * >` (p. 2438), `decaf::util::StlMap< std::string, PrimitiveValueNode >` (p. 2438), `decaf::util::StlMap< std::string, cms::Queue * >` (p. 2438), `decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR >` (p. 2438), `decaf::util::StlMap< std::string, CachedConsumer * >` (p. 2438), `decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2438), `decaf::util::StlMap< std::string, TransportFactory * >` (p. 2438), `decaf::util::StlMap< int, Pointer< Command > >` (p. 2438), `decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR >` (p. 2438), `decaf::util::StlMap< std::string, CachedProducer * >` (p. 2438), and `decaf::util::StlMap< std::string, cms::Topic * >` (p. 2438).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Map.h`

6.340 cms::MapMessage Class Reference

A **MapMessage** (p.1701) object is used to send a set of name-value pairs.

#include <src/main/cms/MapMessage.h> Inheritance diagram for cms::MapMessage:

Public Member Functions

- virtual **~MapMessage** ()
- virtual std::vector< std::string > **getMapNames** () const =0 throw (CMSEException)
*Returns an Enumeration of all the names in the **MapMessage** (p.1701) object.*
- virtual bool **itemExists** (const std::string &name) const =0 throw (CMSEException)
*Indicates whether an item exists in this **MapMessage** (p.1701) object.*
- virtual bool **getBoolean** (const std::string &name) const =0 throw (CMSEException)
Returns the Boolean value of the Specified name.
- virtual void **setBoolean** (const std::string &name, bool value)=0 throw (CMSEException)
Sets a boolean value with the specified name into the Map.
- virtual unsigned char **getByte** (const std::string &name) const =0 throw (CMSEException)
Returns the Byte value of the Specified name.
- virtual void **setByte** (const std::string &name, unsigned char value)=0 throw (CMSEException)
Sets a Byte value with the specified name into the Map.
- virtual std::vector< unsigned char > **getBytes** (const std::string &name) const =0 throw (CMSEException)
Returns the Bytes value of the Specified name.
- virtual void **setBytes** (const std::string &name, const std::vector< unsigned char > &value)=0 throw (CMSEException)
Sets a Bytes value with the specified name into the Map.
- virtual char **getChar** (const std::string &name) const =0 throw (CMSEException)
Returns the Char value of the Specified name.
- virtual void **setChar** (const std::string &name, char value)=0 throw (CMSEException)
Sets a Char value with the specified name into the Map.
- virtual double **getDouble** (const std::string &name) const =0 throw (CMSEException)
Returns the Double value of the Specified name.
- virtual void **setDouble** (const std::string &name, double value)=0 throw (CMSEException)

Sets a Double value with the specified name into the Map.

- virtual float **getFloat** (const std::string &name) const =0 throw (CMSEException)
Returns the Float value of the Specified name.
- virtual void **setFloat** (const std::string &name, float value)=0 throw (CMSEException)
Sets a Float value with the specified name into the Map.
- virtual int **getInt** (const std::string &name) const =0 throw (CMSEException)
Returns the Int value of the Specified name.
- virtual void **setInt** (const std::string &name, int value)=0 throw (CMSEException)
Sets a Int value with the specified name into the Map.
- virtual long long **getLong** (const std::string &name) const =0 throw (CMSEException)
Returns the Long value of the Specified name.
- virtual void **setLong** (const std::string &name, long long value)=0 throw (CMSEException)
Sets a Long value with the specified name into the Map.
- virtual short **getShort** (const std::string &name) const =0 throw (CMSEException)
Returns the Short value of the Specified name.
- virtual void **setShort** (const std::string &name, short value)=0 throw (CMSEException)
Sets a Short value with the specified name into the Map.
- virtual std::string **getString** (const std::string &name) const =0 throw (CMSEException)
Returns the String value of the Specified name.
- virtual void **setString** (const std::string &name, const std::string &value)=0 throw (CMSEException)
Sets a String value with the specified name into the Map.

6.340.1 Detailed Description

A **MapMessage** (p.1701) object is used to send a set of name-value pairs. The names are String objects, and the values are primitive data types in the Java programming language. The names must have a value that is not null, and not an empty string. The entries can be accessed sequentially or randomly by name. The order of the entries is undefined. **MapMessage** (p.1701) inherits from the **Message** (p.1753) interface and adds a message body that contains a Map.

When a client receives a **MapMessage** (p.1701), it is in read-only mode. If a client attempts to write to the message at this point, a **MessageNotWriteableException** (p.1877) is thrown. To place the **MapMessage** (p.1701) back into a state where it can be read from and written to, call the **clearBody** method.

MapMessage (p.1701) objects support the following conversion table. The marked cases must be supported. The unmarked cases must throw a **CMSEException** (p.850). The String-to-primitive conversions may throw a **MessageFormatException** (p.1842) if the primitive's **valueOf()** method does not accept it as a valid String representation of the primitive.

A value written as the row type can be read as the column type.

	boolean	byte	short	char	int	long	float	double	String	byte[]
boolean	X									X
byte		X	X		X	X				X
short			X		X	X				X
char				X						X
int					X	X				X
long						X				X
float							X	X		X
double								X		X
String	X	X	X		X	X	X	X	X	
byte[]										X

Since:

1.0

6.340.2 Constructor & Destructor Documentation

6.340.2.1 virtual cms::MapMessage::~MapMessage () [inline, virtual]

6.340.3 Member Function Documentation

6.340.3.1 virtual bool cms::MapMessage::getBoolean (const std::string & *name*) const throw (CMSEException) [pure virtual]

Returns the Boolean value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 259).

6.340.3.2 virtual unsigned char cms::MapMessage::getBytes (const std::string & *name*) const throw (CMSEException) [pure virtual]

Returns the Byte value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 259).

6.340.3.3 `virtual std::vector<unsigned char> cms::MapMessage::getBytes (const std::string & name) const throw (CMSEException) [pure virtual]`

Returns the Bytes value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 259).

6.340.3.4 `virtual char cms::MapMessage::getChar (const std::string & name) const throw (CMSEException) [pure virtual]`

Returns the Char value of the Specified name.

Parameters:

name name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 260).

6.340.3.5 `virtual double cms::MapMessage::getDouble (const std::string & name) const throw (CMSEException) [pure virtual]`

Returns the Double value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 260).

6.340.3.6 virtual float cms::MapMessage::getFloat (const std::string & *name*) const throw (CMSEException) [pure virtual]

Returns the Float value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 260).

6.340.3.7 virtual int cms::MapMessage::getInt (const std::string & *name*) const throw (CMSEException) [pure virtual]

Returns the Int value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 261).

6.340.3.8 virtual long long cms::MapMessage::getLong (const std::string & *name*) const throw (CMSEException) [pure virtual]

Returns the Long value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 261).

6.340.3.9 virtual std::vector< std::string > cms::MapMessage::getMapNames () const throw (CMSEException) [pure virtual]

Returns an Enumeration of all the names in the **MapMessage** (p. 1701) object.

Returns:

STL Vector of String values, each of which is the name of an item in the **MapMessage** (p. 1701)

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 262).

6.340.3.10 **virtual short cms::MapMessage::getShort (const std::string & *name*)
 const throw (CMSEException) [pure virtual]**

Returns the Short value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 262).

6.340.3.11 **virtual std::string cms::MapMessage::getString (const std::string &
 name) const throw (CMSEException) [pure virtual]**

Returns the String value of the Specified name.

Parameters:

name Name of the value to fetch from the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageFormatException - if this type conversion is invalid.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 262).

6.340.3.12 **virtual bool cms::MapMessage::itemExists (const std::string & *name*)
 const throw (CMSEException) [pure virtual]**

Indicates whether an item exists in this **MapMessage** (p. 1701) object.

Parameters:

name String name of the Object in question

Returns:

boolean value indicating if the name is in the map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 263).

6.340.3.13 `virtual void cms::MapMessage::setBoolean (const std::string & name, bool value) throw (CMSEException)` [pure virtual]

Sets a boolean value with the specified name into the Map.

Parameters:

name the name of the boolean

value the boolean value to set in the Map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageNotWritableException - if the `Message` (p. 1753) is in Read-only Mode.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 263).

6.340.3.14 `virtual void cms::MapMessage::setByte (const std::string & name, unsigned char value) throw (CMSEException)` [pure virtual]

Sets a Byte value with the specified name into the Map.

Parameters:

name the name of the Byte

value the Byte value to set in the Map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageNotWritableException - if the `Message` (p. 1753) is in Read-only Mode.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 263).

6.340.3.15 `virtual void cms::MapMessage::setBytes (const std::string & name, const std::vector< unsigned char > & value) throw (CMSEException)` [pure virtual]

Sets a Bytes value with the specified name into the Map.

Parameters:

name The name of the Bytes

value The Bytes value to set in the Map

Exceptions:

CMSEException (p. 850) - if the operation fails due to an internal error.

MessageNotWritableException - if the **Message** (p. 1753) is in Read-only Mode.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 264).

6.340.3.16 `virtual void cms::MapMessage::setChar (const std::string & name, char value) throw (CMSException) [pure virtual]`

Sets a Char value with the specified name into the Map.

Parameters:

name the name of the Char
value the Char value to set in the Map

Exceptions:

CMSException (p. 850) - if the operation fails due to an internal error.
MessageNotWritableException - if the **Message** (p. 1753) is in Read-only Mode.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 264).

6.340.3.17 `virtual void cms::MapMessage::setDouble (const std::string & name, double value) throw (CMSException) [pure virtual]`

Sets a Double value with the specified name into the Map.

Parameters:

name The name of the Double
value The Double value to set in the Map

Exceptions:

CMSException (p. 850) - if the operation fails due to an internal error.
MessageNotWritableException - if the **Message** (p. 1753) is in Read-only Mode.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 264).

6.340.3.18 `virtual void cms::MapMessage::setFloat (const std::string & name, float value) throw (CMSException) [pure virtual]`

Sets a Float value with the specified name into the Map.

Parameters:

name The name of the Float
value The Float value to set in the Map

Exceptions:

CMSException (p. 850) - if the operation fails due to an internal error.
MessageNotWritableException - if the **Message** (p. 1753) is in Read-only Mode.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 265).

6.340.3.19 `virtual void cms::MapMessage::setInt (const std::string & name, int value) throw (CMSException) [pure virtual]`

Sets a Int value with the specified name into the Map.

Parameters:

name The name of the Int

value The Int value to set in the Map

Exceptions:

CMSException (p. 850) - if the operation fails due to an internal error.

MessageNotWritableException - if the Message (p.1753) is in Read-only Mode.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 265).

6.340.3.20 `virtual void cms::MapMessage::setLong (const std::string & name, long value) throw (CMSException) [pure virtual]`

Sets a Long value with the specified name into the Map.

Parameters:

name The name of the Long

value The Long value to set in the Map

Exceptions:

CMSException (p. 850) - if the operation fails due to an internal error.

MessageNotWritableException - if the Message (p.1753) is in Read-only Mode.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 265).

6.340.3.21 `virtual void cms::MapMessage::setShort (const std::string & name, short value) throw (CMSException) [pure virtual]`

Sets a Short value with the specified name into the Map.

Parameters:

name The name of the Short

value The Short value to set in the Map

Exceptions:

CMSException (p. 850) - if the operation fails due to an internal error.

MessageNotWritableException - if the Message (p.1753) is in Read-only Mode.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 266).

6.340.3.22 `virtual void cms::MapMessage::setString (const std::string & name,
const std::string & value) throw (CMSException)` [pure virtual]

Sets a String value with the specified name into the Map.

Parameters:

name The name of the String

value The String value to set in the Map

Exceptions:

CMSException (p. 850) - if the operation fails due to an internal error.

MessageNotWritableException - if the **Message** (p. 1753) is in Read-only Mode.

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 266).

The documentation for this class was generated from the following file:

- `src/main/cms/MapMessage.h`

6.341 decaf::util::logging::MarkBlockLogger Class Reference

Defines a class that can be used to mark the entry and exit from scoped blocks.

```
#include <src/main/decaf/util/logging/MarkBlockLogger.h>
```

Public Member Functions

- **MarkBlockLogger** (**Logger** *logger, const std::string &blockName)
Constructor - Marks Block entry.
- virtual ~**MarkBlockLogger** ()

6.341.1 Detailed Description

Defines a class that can be used to mark the entry and exit from scoped blocks. Create an instance of this class at the start of a scoped block, passing it the logger to use and the name of the block. The block entry and exit will be marked using the scope name, logger to the logger at the MARKBLOCK log level.

6.341.2 Constructor & Destructor Documentation

6.341.2.1 decaf::util::logging::MarkBlockLogger::MarkBlockLogger (**Logger** *logger, const std::string & blockName) [inline]

Constructor - Marks Block entry.

Parameters:

logger **Logger** (p.1623) to use
blockName Block name

6.341.2.2 virtual decaf::util::logging::MarkBlockLogger::~MarkBlockLogger () [inline, virtual]

The documentation for this class was generated from the following file:

- src/main/decaf/util/logging/MarkBlockLogger.h

6.342 activemq::wireformat::MarshalAware Class Reference

#include <src/main/activemq/wireformat/MarshalAware.h> Inheritance diagram for activemq::wireformat::MarshalAware:

Public Member Functions

- virtual `~MarshalAware ()`
- virtual `bool isMarshalAware () const =0`
Determine if the class implementing this interface is really wanting to be told about marshaling.
- virtual `void beforeMarshal (WireFormat *wireFormat)=0 throw (decaf::io::IOException)`
Called before marshaling is started to prepare the object to be marshaled.
- virtual `void afterMarshal (WireFormat *wireFormat)=0 throw (decaf::io::IOException)`
Called after marshaling is started to cleanup the object being marshaled.
- virtual `void beforeUnmarshal (WireFormat *wireFormat)=0 throw (decaf::io::IOException)`
Called before unmarshaling is started to prepare the object to be unmarshaled.
- virtual `void afterUnmarshal (WireFormat *wireFormat)=0 throw (decaf::io::IOException)`
Called after unmarshaling is started to cleanup the object being unmarshaled.
- virtual `void setMarshaledForm (WireFormat *wireFormat, const std::vector< char > &data)=0`
Called to set the data to this object that will contain the objects marshaled form.
- virtual `std::vector< unsigned char > getMarshaledForm (WireFormat *wireFormat)=0`
Called to get the data to this object that will contain the objects marshaled form.

6.342.1 Constructor & Destructor Documentation

- 6.342.1.1** `virtual activemq::wireformat::MarshalAware::~~MarshalAware ()`
 [inline, virtual]

6.342.2 Member Function Documentation

- 6.342.2.1** `virtual void activemq::wireformat::MarshalAware::afterMarshal (WireFormat * wireFormat) throw (decaf::io::IOException)` [pure virtual]

Called after marshaling is started to cleanup the object being marshaled.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control marshaling

6.342.2.2 virtual void activemq::wireformat::MarshalAware::afterUnmarshal
(WireFormat * *wireFormat*) throw (decaf::io::IOException) [pure
virtual]

Called after unmarshaling is started to cleanup the object being unmarshaled.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control unmarshaling

6.342.2.3 virtual void activemq::wireformat::MarshalAware::beforeMarshal
(WireFormat * *wireFormat*) throw (decaf::io::IOException) [pure
virtual]

Called before marshaling is started to prepare the object to be marshaled.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control marshaling

Implemented in **activemq::commands::ActiveMQMapMessage** (p. 257), and **activemq::commands::ActiveMQStreamMessage** (p. 376).

6.342.2.4 virtual void activemq::wireformat::MarshalAware::beforeUnmarshal
(WireFormat * *wireFormat*) throw (decaf::io::IOException) [pure
virtual]

Called before unmarshaling is started to prepare the object to be unmarshaled.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control unmarshaling

6.342.2.5 virtual std::vector<unsigned char> activemq::wireformat::MarshalAware::getMarshaledForm
(WireFormat * *wireFormat*) [pure virtual]

Called to get the data to this object that will contain the objects marshaled form.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control unmarshaling

Returns:

buffer that holds the objects data.

6.342.2.6 `virtual bool activemq::wireformat::MarshalAware::isMarshalAware ()` `const` [pure virtual]

Determine if the class implementing this interface is really wanting to be told about marshaling. Normally if you didn't want to be marshal aware you just wouldn't implement this interface but since this is C++ and we don't have true interfaces we need a flat inheritance hierarchy, so we always implement this.

Returns:

true if this class cares about marshaling.

Implemented in `activemq::commands::ActiveMQMapMessage` (p. 262), `activemq::commands::ActiveMQStreamMessage` (p. 378), `activemq::commands::BaseDataStructure` (p. 559), `activemq::commands::Message` (p. 1746), and `activemq::commands::WireFormatInfo` (p. 2704).

6.342.2.7 `virtual void activemq::wireformat::MarshalAware::setMarshaledForm` `(WireFormat * wireFormat, const std::vector< char > & data)` [pure virtual]

Called to set the data to this object that will contain the objects marshaled form.

Parameters:

wireFormat - the `wireformat` (p. 74) object to control unmarshaling
data - vector of object binary data

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/MarshalAware.h`

6.343 activemq::wireformat::openwire::marshal::v2::MarshallerFactory Class Reference

Used to create marshallers for a specific version of the wire protocol.

```
#include <src/main/activemq/wireformat/openwire/marshal/v2/MarshallerFactory.h>
```

Public Member Functions

- virtual `~MarshallerFactory()`
- virtual void `configure (OpenWireFormat *format)`

6.343.1 Detailed Description

Used to create marshallers for a specific version of the wire protocol. NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Groovy scripts in the activemq-openwire-generator module

6.343.2 Constructor & Destructor Documentation

- 6.343.2.1** virtual
activemq::wireformat::openwire::marshal::v2::MarshallerFactory::~MarshallerFactory
() [inline, virtual]

6.343.3 Member Function Documentation

- 6.343.3.1** virtual void ac-
tivemq::wireformat::openwire::marshal::v2::MarshallerFactory::configure
(OpenWireFormat * *format*) [virtual]

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**MarshallerFactory.h**

6.344 activemq::wireformat::openwire::marshal::v3::MarshallerFactory Class Reference

Used to create marshallers for a specific version of the wire protocol.

```
#include <src/main/activemq/wireformat/openwire/marshal/v3/MarshallerFactory.h>
```

Public Member Functions

- virtual `~MarshallerFactory()`
- virtual void `configure (OpenWireFormat *format)`

6.344.1 Detailed Description

Used to create marshallers for a specific version of the wire protocol. NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Groovy scripts in the activemq-openwire-generator module

6.344.2 Constructor & Destructor Documentation

- 6.344.2.1** virtual
`activemq::wireformat::openwire::marshal::v3::MarshallerFactory::~MarshallerFactory()` [inline, virtual]

6.344.3 Member Function Documentation

- 6.344.3.1** virtual void `activemq::wireformat::openwire::marshal::v3::MarshallerFactory::configure (OpenWireFormat * format)` [virtual]

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/MarshallerFactory.h`

6.345 activemq::wireformat::openwire::marshal::v1::MarshallerFactory Class Reference

Used to create marshallers for a specific version of the wire protocol.

```
#include <src/main/activemq/wireformat/openwire/marshal/v1/MarshallerFactory.h>
```

Public Member Functions

- virtual `~MarshallerFactory()`
- virtual void `configure (OpenWireFormat *format)`

6.345.1 Detailed Description

Used to create marshallers for a specific version of the wire protocol. NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Groovy scripts in the activemq-openwire-generator module

6.345.2 Constructor & Destructor Documentation

- 6.345.2.1** virtual
`activemq::wireformat::openwire::marshal::v1::MarshallerFactory::~~MarshallerFactory()` [inline, virtual]

6.345.3 Member Function Documentation

- 6.345.3.1** virtual void `ac-`
`tivemq::wireformat::openwire::marshal::v1::MarshallerFactory::configure`
`(OpenWireFormat * format)` [virtual]

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/MarshallerFactory.h`

6.346 decaf::lang::Math Class Reference

The class `Math` (p. 1718) contains methods for performing basic numeric operations such as the elementary exponential, logarithm, square root, and trigonometric functions.

```
#include <src/main/decaf/lang/Math.h>
```

Public Member Functions

- `Math ()`
- `virtual ~Math ()`

Static Public Member Functions

- static int **abs** (int value)
Returns the absolute value of an int value.
- static long long **abs** (long long value)
Returns the absolute value of an long long value.
- static float **abs** (float value)
Returns the absolute value of a float value.
- static double **abs** (double value)
Returns the absolute value of a double value.
- static double **sqrt** (double value)
Returns the arc cosine of an angle, in the range of 0.0 through pi.
- static double **pow** (double base, double exp)
Returns the value of the first argument raised to the power of the second argument.
- static short **min** (short a, short b)
Returns the double value that is closest in value to the argument and is equal to a mathematical integer.
- static int **min** (int a, int b)
*Returns the smaller of two *int* values.*
- static int **min** (unsigned int a, unsigned int b)
*Returns the smaller of two *unsigned int* values.*
- static long long **min** (long long a, long long b)
*Returns the smaller of two *long long* values.*
- static float **min** (float a, float b)
Returns the smaller of two float values.
- static double **min** (double a, double b)
Returns the smaller of two double values.

- static short **max** (short a, short b)
*Returns the larger of two **short** values.*
- static int **max** (int a, int b)
*Returns the larger of two **int** values.*
- static long long **max** (long long a, long long b)
*Returns the larger of two **long long** values.*
- static float **max** (float a, float b)
Returns the greater of two float values.
- static double **max** (double a, double b)
Returns the greater of two double values.
- static double **ceil** (double value)
Returns the natural logarithm (base e) of a double value.
- static double **floor** (double value)
Returns the largest (closest to positive infinity) double value that is less than or equal to the argument and is equal to a mathematical integer.
- static int **round** (float value)
Returns the closest int to the argument.
- static long long **round** (double value)
Returns the closest long long to the argument.
- static double **random** ()
Computes the remainder operation on two arguments as prescribed by the IEEE 754 standard.
- static float **signum** (float value)
Returns Euler's number e raised to the power of a double value.
- static double **signum** (double value)
Returns the signum function of the argument; zero if the argument is zero, 1.0f if the argument is greater than zero, -1.0f if the argument is less than zero.
- static double **toRadians** (double angdeg)
Returns the measure in radians of the supplied degree angle.
- static double **toDegrees** (double angrad)
Returns the measure in degrees of the supplied radian angle.

Static Public Attributes

- static const double **E**
- static const double **PI**

6.346.1 Detailed Description

The class `Math` (p. 1718) contains methods for performing basic numeric operations such as the elementary exponential, logarithm, square root, and trigonometric functions.

6.346.2 Constructor & Destructor Documentation

6.346.2.1 `decaf::lang::Math::Math ()` [inline]

6.346.2.2 `virtual decaf::lang::Math::~~Math ()` [inline, virtual]

6.346.3 Member Function Documentation

6.346.3.1 `static double decaf::lang::Math::abs (double value)` [static]

Returns the absolute value of a double value. If the argument is not negative, the argument is returned. If the argument is negative, the negation of the argument is returned. Special cases:

- o If the argument is positive zero or negative zero, the result is positive zero.
- o If the argument is infinite, the result is positive infinity.
- o If the argument is NaN, the result is NaN.

In other words, the result is the same as the value of the expression: `Double::longBitsToDouble` (p. 1237)(`0x7fffffffffULL & Double::doubleToLongBits(value)`)

Parameters:

value - the value to return the abs of

Returns:

the value if positive, otherwise the negative of value

6.346.3.2 `static float decaf::lang::Math::abs (float value)` [static]

Returns the absolute value of a float value. If the argument is not negative, the argument is returned. If the argument is negative, the negation of the argument is returned. Special cases:

- o If the argument is positive zero or negative zero, the result is positive zero.
- o If the argument is infinite, the result is positive infinity.
- o If the argument is NaN, the result is NaN.

In other words, the result is the same as the value of the expression: `Float::intBitsToFloat` (p. 1333)(`0x7fffff & Float::floatToIntBits(value)`)

Parameters:

value - the value to return the abs of

Returns:

the value if positive, otherwise the negative of value

6.346.3.3 `static long long decaf::lang::Math::abs (long long value)` [inline, static]

Returns the absolute value of an long long value. If the argument is not negative, the argument is returned. If the argument is negative, the negation of the argument is returned.

Parameters:

value - the value to return the abs of

Returns:

the value if positive, otherwise the negative of value

6.346.3.4 static int decaf::lang::Math::abs (int *value*) [inline, static]

Returns the absolute value of an int value. If the argument is not negative, the argument is returned. If the argument is negative, the negation of the argument is returned.

Parameters:

value - the value to return the abs of

Returns:

the value if positive, otherwise the negative of value

6.346.3.5 static double decaf::lang::Math::ceil (double *value*) [static]

Returns the natural logarithm (base e) of a double value. Special cases:

o If the argument is NaN or less than zero, then the result is NaN. o If the argument is positive infinity, then the result is positive infinity. o If the argument is positive zero or negative zero, then the result is negative infinity.

Parameters:

value the value to compute the natural log of.

Returns:

the natural log of value. Returns the base 10 logarithm of a double value. Special cases:

o If the argument is NaN or less than zero, then the result is NaN. o If the argument is positive infinity, then the result is positive infinity. o If the argument is positive zero or negative zero, then the result is negative infinity. o If the argument is equal to 10^n for integer n , then the result is n .

Parameters:

value - the value to operate on

Returns:

the long base 10 of value Returns the natural logarithm of the sum of the argument and 1. Note that for small values x , the result of $\log_{10}(x)$ is much closer to the true result of $\ln(1 + x)$ than the floating-point evaluation of $\log(1.0+x)$.

Special cases:

o If the argument is NaN or less than -1, then the result is NaN. o If the argument is positive infinity, then the result is positive infinity. o If the argument is negative one, then the result is negative infinity. o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the value to operate on

Returns:

the the value $\ln(x + 1)$, the natural log of $x + 1$ Returns the smallest (closest to negative infinity) double value that is greater than or equal to the argument and is equal to a mathematical integer. Special cases:

o If the argument value is already equal to a mathematical integer, then the result is the same as the argument. o If the argument is NaN or an infinity or positive zero or negative zero, then the result is the same as the argument. o If the argument value is less than zero but greater than -1.0, then the result is negative zero.

Note that the value of `Math.ceil(x)` is exactly the value of `-Math.floor(-x)`.

Parameters:

value - the value to find the ceiling of

Returns:

the smallest (closest to negative infinity) floating-point value that is greater than or equal to the argument and is equal to a mathematical integer.

6.346.3.6 static double decaf::lang::Math::floor (double *value*) [static]

Returns the largest (closest to positive infinity) double value that is less than or equal to the argument and is equal to a mathematical integer. Special cases:

o If the argument value is already equal to a mathematical integer, then the result is the same as the argument. o If the argument is NaN or an infinity or positive zero or negative zero, then the result is the same as the argument.

Parameters:

value - the value to find the floor of

Returns:

the largest (closest to positive infinity) floating-point value that less than or equal to the argument and is equal to a mathematical integer.

6.346.3.7 static double decaf::lang::Math::max (double *a*, double *b*) [static]

Returns the greater of two double values. That is, the result is the argument closer to positive infinity. If the arguments have the same value, the result is that same value. If either value is NaN, then the result is NaN. Unlike the numerical comparison operators, this method considers negative zero to be strictly smaller than positive zero. If one argument is positive zero and the other negative zero, the result is positive zero.

Parameters:

a - an argument.

b - another argument.

Returns:

the larger of *a* and *b*.

6.346.3.8 static float decaf::lang::Math::max (float *a*, float *b*) [static]

Returns the greater of two float values. That is, the result is the argument closer to positive infinity. If the arguments have the same value, the result is that same value. If either value is NaN, then the result is NaN. Unlike the numerical comparison operators, this method considers negative zero to be strictly smaller than positive zero. If one argument is positive zero and the other negative zero, the result is positive zero.

Parameters:

a - an argument.

b - another argument.

Returns:

the larger of *a* and *b*.

6.346.3.9 static long long decaf::lang::Math::max (long long *a*, long long *b*) [inline, static]

Returns the larger of two long long values. That is, the result the argument closer to the value of `Long::MAX_VALUE` (p.1665). If the arguments have the same value, the result is that same value.

Parameters:

a - an argument.

b - another argument.

Returns:

the larger of *a* and *b*.

6.346.3.10 static int decaf::lang::Math::max (int *a*, int *b*) [inline, static]

Returns the larger of two int values. That is, the result the argument closer to the value of `Integer::MAX_VALUE` (p.1441). If the arguments have the same value, the result is that same value.

Parameters:

a - an argument.

b - another argument.

Returns:

the larger of *a* and *b*.

6.346.3.11 static short decaf::lang::Math::max (short *a*, short *b*) [inline, static]

Returns the larger of two `short` values. That is, the result the argument closer to the value of `Short::MAX_VALUE` (p. 2329). If the arguments have the same value, the result is that same value.

Parameters:

- a* - an argument.
- b* - another argument.

Returns:

the larger of *a* and *b*.

6.346.3.12 static double decaf::lang::Math::min (double *a*, double *b*) [static]

Returns the smaller of two double values. That is, the result is the value closer to negative infinity. If the arguments have the same value, the result is that same value. If either value is NaN, then the result is NaN. Unlike the numerical comparison operators, this method considers negative zero to be strictly smaller than positive zero. If one argument is positive zero and the other is negative zero, the result is negative zero.

Parameters:

- a* - an argument.
- b* - another argument.

Returns:

the smaller of *a* and *b*.

6.346.3.13 static float decaf::lang::Math::min (float *a*, float *b*) [static]

Returns the smaller of two float values. That is, the result is the value closer to negative infinity. If the arguments have the same value, the result is that same value. If either value is NaN, then the result is NaN. Unlike the numerical comparison operators, this method considers negative zero to be strictly smaller than positive zero. If one argument is positive zero and the other is negative zero, the result is negative zero.

Parameters:

- a* - an argument.
- b* - another argument.

Returns:

the smaller of *a* and *b*.

6.346.3.14 static long long decaf::lang::Math::min (long long *a*, long long *b*)
[inline, static]

Returns the smaller of two `long long` values. That is, the result the argument closer to the value of `Long::MIN_VALUE` (p.1665). If the arguments have the same value, the result is that same value.

Parameters:

- a* - an argument.
- b* - another argument.

Returns:

the smaller of *a* and *b*.

6.346.3.15 static int decaf::lang::Math::min (unsigned int *a*, unsigned int *b*)
[inline, static]

Returns the smaller of two `unsigned int` values. That is, the result the argument closer to the value of `Integer::MIN_VALUE` (p.1441). If the arguments have the same value, the result is that same value.

Parameters:

- a* - an argument.
- b* - another argument.

Returns:

the smaller of *a* and *b*.

6.346.3.16 static int decaf::lang::Math::min (int *a*, int *b*) [inline, static]

Returns the smaller of two `int` values. That is, the result the argument closer to the value of `Integer::MIN_VALUE` (p.1441). If the arguments have the same value, the result is that same value.

Parameters:

- a* - an argument.
- b* - another argument.

Returns:

the smaller of *a* and *b*.

6.346.3.17 static short decaf::lang::Math::min (short *a*, short *b*) [inline, static]

Returns the double value that is closest in value to the argument and is equal to a mathematical integer. If two double values that are mathematical integers are equally close, the result is the integer value that is even. Special cases:

o If the argument value is already equal to a mathematical integer, then the result is the same as the argument. o If the argument is NaN or an infinity or positive zero or negative zero, then the result is the same as the argument.

Parameters:

value - the value to round to the nearest integer

Returns:

the rounded value Returns the smaller of two short values. That is, the result is the argument closer to the value of `decaf::lang::Short::MIN_VALUE` (p. 2329). If the arguments have the same value, the result is that same value.

Parameters:

a - an argument.

b - another argument.

Returns:

the smaller of *a* and *b*.

6.346.3.18 `static double decaf::lang::Math::pow (double base, double exp)` [static]

Returns the value of the first argument raised to the power of the second argument. Special cases:

o If the second argument is positive or negative zero, then the result is 1.0. o If the second argument is 1.0, then the result is the same as the first argument. o If the second argument is NaN, then the result is NaN. o If the first argument is NaN and the second argument is nonzero, then the result is NaN.

Parameters:

base - the base

exp - the exponent

Returns:

the base raised to the power of *exp*.

6.346.3.19 `static double decaf::lang::Math::random ()` [static]

Computes the remainder operation on two arguments as prescribed by the IEEE 754 standard. The remainder value is mathematically equal to $f1 - f2 \times n$, where *n* is the mathematical integer closest to the exact mathematical value of the quotient $f1/f2$, and if two mathematical integers are equally close to $f1/f2$, then *n* is the integer that is even. If the remainder is zero, its sign is the same as the sign of the first argument. Special cases:

o If either argument is NaN, or the first argument is infinite, or the second argument is positive zero or negative zero, then the result is NaN. o If the first argument is finite and the second argument is infinite, then the result is the same as the first argument.

Parameters:*f1* - the dividend.*f2* - the divisor**Returns:**

the IEEE remainder of value Returns a double value with a positive sign, greater than or equal to 0.0 and less than 1.0. Returned values are chosen pseudorandomly with (approximately) uniform distribution from that range.

When this method is first called, it creates a single new pseudorandom-number generator; This new pseudorandom-number generator is used thereafter for all calls to this method and is used nowhere else.

This method is properly synchronized to allow correct use by more than one thread. However, if many threads need to generate pseudorandom numbers at a great rate, it may reduce contention for each thread to have its own pseudorandom-number generator.

Returns:

a pseudorandom double greater than or equal to 0.0 and less than 1.0.

6.346.3.20 static long long decaf::lang::Math::round (double *value*) [static]

Returns the closest long long to the argument. The result is rounded to an integer by adding 1/2, taking the floor of the result, and casting the result to type long long. In other words, the result is equal to the value of the expression: (long long)**Math.floor** (p.1722)(a + 0.5d)

o If the argument is NaN, the result is 0. o If the argument is negative infinity or any value less than or equal to the value of **Long::MIN_VALUE** (p.1665), the result is equal to the value of **Long::MIN_VALUE** (p.1665). o If the argument is positive infinity or any value greater than or equal to the value of **Long::MAX_VALUE** (p.1665), the result is equal to the value of **Long::MAX_VALUE** (p.1665).

Parameters:*value* - the value to round**Returns:**

the value of the argument rounded to the nearest integral value.

6.346.3.21 static int decaf::lang::Math::round (float *value*) [static]

Returns the closest int to the argument. The result is rounded to an integer by adding 1/2, taking the floor of the result, and casting the result to type int. In other words, the result is equal to the value of the expression: (int)**Math.floor** (p.1722)(a + 0.5f)

o If the argument is NaN, the result is 0. o If the argument is negative infinity or any value less than or equal to the value of **Integer::MIN_VALUE** (p.1441), the result is equal to the value of **Integer::MIN_VALUE** (p.1441). o If the argument is positive infinity or any value greater than or equal to the value of **Integer::MAX_VALUE** (p.1441), the result is equal to the value of **Integer::MAX_VALUE** (p.1441).

Parameters:

value - the value to round

Returns:

the value of the argument rounded to the nearest integral value.

6.346.3.22 static double decaf::lang::Math::signum (double *value*) [static]

Returns the signum function of the argument; zero if the argument is zero, 1.0f if the argument is greater than zero, -1.0f if the argument is less than zero. Special Cases:

o If the argument is NaN, then the result is NaN. o If the argument is positive zero or negative zero, then the result is the same as the argument.

Parameters:

value - the floating-point value whose signum is to be returned

Returns:

the signum function of the argument

6.346.3.23 static float decaf::lang::Math::signum (float *value*) [static]

Returns Euler's number e raised to the power of a double value. Special cases:

o If the argument is NaN, the result is NaN. o If the argument is positive infinity, then the result is positive infinity. o If the argument is negative infinity, then the result is positive zero.

Parameters:

value - the exponent to raise e to

Returns:

the value e^a , where e is the base of the natural logarithms. Returns $e^x - 1$. Note that for values of x near 0, the exact sum of $\expm1(x) + 1$ is much closer to the true result of e^x than $\exp(x)$. Special cases:

o If the argument is NaN, the result is NaN. o If the argument is positive infinity, then the result is positive infinity. o If the argument is negative infinity, then the result is -1.0. o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the value to raise $e^x - 1$

Returns:

the value $e^x - 1$. Returns $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow. Special cases:

If either argument is infinite, then the result is positive infinity. If either argument is NaN and neither argument is infinite, then the result is NaN.

Parameters:

x - an argument

y - another argument

Returns:

the $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow Returns the signum function of the argument; zero if the argument is zero, 1.0 if the argument is greater than zero, -1.0 if the argument is less than zero. Special Cases:

o If the argument is NaN, then the result is NaN. o If the argument is positive zero or negative zero, then the result is the same as the argument.

Parameters:

value - the floating-point value whose signum is to be returned

Returns:

the signum function of the argument

6.346.3.24 static double decaf::lang::Math::sqrt (double *value*) [static]

Returns the arc cosine of an angle, in the range of 0.0 through pi. Special case:

o If the argument is NaN or its absolute value is greater than 1, then the result is NaN.

Parameters:

value - the value to return the arc cosine of.

Returns:

arc cosine of value in radians. Returns the arc sine of an angle, in the range of -pi/2 through pi/2. Special cases:

o If the argument is NaN or its absolute value is greater than 1, then the result is NaN. o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the value to return the arc cosine of.

Returns:

arc cosine of value in radians. Returns the arc tangent of an angle, in the range of -pi/2 through pi/2. Special cases:

o If the argument is NaN, then the result is NaN. o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the value to return the arc cosine of.

Returns:

arc tangent of value in radians. Converts rectangular coordinates (x, y) to polar (r, theta). This method computes the phase theta by computing an arc tangent of y/x in the range of -pi to pi. Special cases:

o If either argument is NaN, then the result is NaN. o If the first argument is positive zero and the second argument is positive, or the first argument is positive and finite and the second argument is positive infinity, then the result is positive zero. o If the first argument is negative zero and the second argument is positive, or the first argument is negative and finite and the second argument is positive infinity, then the result is negative zero. o If the first argument is positive zero and the second argument is negative, or the first argument is positive and finite and the second argument is negative infinity, then the result is the double value closest to pi. o If the first argument is negative zero and the second argument is negative, or the first argument is negative and finite and the second argument is negative infinity, then the result is the double value closest to -pi. o If the first argument is positive and the second argument is positive zero or negative zero, or the first argument is positive infinity and the second argument is finite, then the result is the double value closest to pi/2. o If the first argument is negative and the second argument is positive zero or negative zero, or the first argument is negative infinity and the second argument is finite, then the result is the double value closest to -pi/2. o If both arguments are positive infinity, then the result is the double value closest to pi/4. o If the first argument is positive infinity and the second argument is negative infinity, then the result is the double value closest to 3*pi/4. o If the first argument is negative infinity and the second argument is positive infinity, then the result is the double value closest to -pi/4. o If both arguments are negative infinity, then the result is the double value closest to -3*pi/4.

Parameters:

y - the ordinate coordinate
x - the abscissa coordinate

Returns:

the theta component of the point (r, theta) in polar coordinates that corresponds to the point (x, y) in Cartesian coordinates. Returns the cube root of a double value. For positive finite x, cbrt(-x) == -cbrt(x); that is, the cube root of a negative value is the negative of the cube root of that value's magnitude. Special cases:

o If the argument is NaN, then the result is NaN. o If the argument is infinite, then the result is an infinity with the same sign as the argument. o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the double to compute the cube root of

Returns:

the cube root of value Returns the trigonometric cosine of an angle. Special cases:

o If the argument is NaN or an infinity, then the result is NaN.

Parameters:

value - an value in radians

Returns:

the cosine of the argument. Returns the hyperbolic cosine of a double value. The hyperbolic cosine of x is defined to be $(e^x + e^{-x})/2$ where e is Euler's number. Special cases:

- o If the argument is NaN, then the result is NaN.
- o If the argument is infinite, then the result is positive infinity.
- o If the argument is zero, then the result is 1.0.

Parameters:

value - the number whose hyperbolic cosine is to be found

Returns:

the hyperbolic cosine of value Returns the trigonometric sine of an angle. Special case:

- o If the argument is NaN or an infinity, then the result is NaN.
- o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the number whose sin is to be found

Returns:

the sine of value Returns the hyperbolic sine of a double value. The hyperbolic sine of x is defined to be $(e^x - e^{-x})/2$ where e is Euler's number. Special cases:

- o If the argument is NaN, then the result is NaN.
- o If the argument is infinite, then the result is an infinity with the same sign as the argument.
- o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the number whose hyperbolic sin is to be found

Returns:

the hyperbolic sine of value Returns the trigonometric tangent of an angle. Special cases:

- o If the argument is NaN or an infinity, then the result is NaN.
- o If the argument is zero, then the result is a zero with the same sign as the argument.

Parameters:

value - the number whose tangent is to be found

Returns:

the tangent of value Returns the hyperbolic tangent of a double value. The hyperbolic tangent of x is defined to be $(e^x - e^{-x})/(e^x + e^{-x})$, in other words, $\sinh(x)/\cosh(x)$. Note that the absolute value of the exact tanh is always less than 1. Special cases:

- o If the argument is NaN, then the result is NaN.
- o If the argument is zero, then the result is a zero with the same sign as the argument.
- o If the argument is positive infinity, then the result is +1.0.
- o If the argument is negative infinity, then the result is -1.0.

Parameters:

value - the number whose hyperbolic tangent is to be found

Returns:

the hyperbolic cosine of value Returns the correctly rounded positive square root of a double value. Special cases:

o If the argument is NaN or less than zero, then the result is NaN. o If the argument is positive infinity, then the result is positive infinity. o If the argument is positive zero or negative zero, then the result is the same as the argument.

Otherwise, the result is the double value closest to the true mathematical square root of the argument value.

Parameters:

value - the value to find the square root of
the square root of the argument.

6.346.3.25 `static double decaf::lang::Math::toDegrees (double angrad)` [inline, static]

Returns the measure in degrees of the supplied radian angle.

Parameters:

angrad - an angle in radians

Returns:

the degree measure of the angle.

6.346.3.26 `static double decaf::lang::Math::toRadians (double angdeg)` [inline, static]

Returns the measure in radians of the supplied degree angle.

Parameters:

angdeg - an angle in degrees

Returns:

the radian measure of the angle.

6.346.4 Field Documentation

6.346.4.1 `const double decaf::lang::Math::E` [static]

6.346.4.2 `const double decaf::lang::Math::PI` [static]

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Math.h`

6.347 activemq::util::MemoryUsage Class Reference

#include <src/main/activemq/util/MemoryUsage.h> Inheritance diagram for activemq::util::MemoryUsage:

Public Member Functions

- **MemoryUsage** ()
Default Constructor.
- **MemoryUsage** (unsigned long long limit)
*Creates an instance of an **Usage** (p. 2681) monitor with a set limit.*
- virtual ~**MemoryUsage** ()
- virtual void **waitForSpace** ()
*Waits forever for more space to be returned to this **Usage** (p. 2681) Manager.*
- virtual void **waitForSpace** (unsigned int timeout)
*Waits for more space to be returned to this **Usage** (p. 2681) Manager, times out when the given time span in milliseconds elapses.*
- virtual void **enqueueUsage** (unsigned long long value)
Tries to increase the usage by value amount but blocks if this object is currently full.
- virtual void **increaseUsage** (unsigned long long value)
Increases the usage by the value amount.
- virtual void **decreaseUsage** (unsigned long long value)
Decreases the usage by the value amount.
- virtual bool **isFull** () const
*Returns true if this **Usage** (p. 2681) instance is full, i.e.*
- unsigned long long **getUsage** () const
Gets the current usage amount.
- void **setUsage** (unsigned long long usage)
Sets the current usage amount.
- unsigned long long **getLimit** () const
Gets the current limit amount.
- void **setLimit** (unsigned long long limit)
Sets the current limit amount.

6.347.1 Constructor & Destructor Documentation

6.347.1.1 `activemq::util::MemoryUsage::MemoryUsage ()`

Default Constructor.

6.347.1.2 `activemq::util::MemoryUsage::MemoryUsage (unsigned long long limit)`

Creates an instance of an **Usage** (p. 2681) monitor with a set limit.

Parameters:

limit - amount of memory this manager allows.

6.347.1.3 `virtual activemq::util::MemoryUsage::~~MemoryUsage ()` [virtual]

6.347.2 Member Function Documentation

6.347.2.1 `virtual void activemq::util::MemoryUsage::decreaseUsage (unsigned long long value)` [virtual]

Decreases the usage by the value amount.

Parameters:

value Amount of space to return to the pool

Implements **activemq::util::Usage** (p. 2681).

6.347.2.2 `virtual void activemq::util::MemoryUsage::enqueueUsage (unsigned long long value)` [inline, virtual]

Tries to increase the usage by value amount but blocks if this object is currently full.

Parameters:

value Amount of usage in bytes to add.

Implements **activemq::util::Usage** (p. 2681).

6.347.2.3 `unsigned long long activemq::util::MemoryUsage::getLimit ()` const [inline]

Gets the current limit amount.

Returns:

the amount that can be used before full.

6.347.2.4 unsigned long long activemq::util::MemoryUsage::getUsage () const [inline]

Gets the current usage amount.

Returns:

the amount of bytes currently used.

6.347.2.5 virtual void activemq::util::MemoryUsage::increaseUsage (unsigned long long *value*) [virtual]

Increases the usage by the value amount.

Parameters:

value Amount of usage to add.

Implements **activemq::util::Usage** (p. 2682).

6.347.2.6 virtual bool activemq::util::MemoryUsage::isFull () const [virtual]

Returns true if this **Usage** (p. 2681) instance is full, i.e. **Usage** (p. 2681) >= 100%

Implements **activemq::util::Usage** (p. 2682).

6.347.2.7 void activemq::util::MemoryUsage::setLimit (unsigned long long *limit*) [inline]

Sets the current limit amount.

Parameters:

limit - The amount that can be used before full.

6.347.2.8 void activemq::util::MemoryUsage::setUsage (unsigned long long *usage*) [inline]

Sets the current usage amount.

Parameters:

usage - The amount to tag as used.

6.347.2.9 virtual void activemq::util::MemoryUsage::waitForSpace (unsigned int *timeout*) [virtual]

Waits for more space to be returned to this **Usage** (p. 2681) Manager, times out when the given time span in milliseconds elapses.

Parameters:

timeout The time to wait for more space.

Implements **activemq::util::Usage** (p. 2682).

6.347.2.10 `virtual void activemq::util::MemoryUsage::waitForSpace ()` [virtual]

Waits forever for more space to be returned to this **Usage** (p. 2681) Manager.

Implements **activemq::util::Usage** (p. 2682).

The documentation for this class was generated from the following file:

- `src/main/activemq/util/MemoryUsage.h`

6.348 activemq::commands::Message Class Reference

#include <src/main/activemq/commands/Message.h> Inheritance diagram for activemq::commands::Message:

Public Member Functions

- **Message** ()
- virtual **~Message** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **Message * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual void **beforeMarshal** (**wireformat::WireFormat** *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)
Handles the marshaling of the objects properties into the internal byte array before the object is marshaled to the wire.
- virtual void **afterUnmarshal** (**wireformat::WireFormat** *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)
Called after unmarshaling is started to cleanup the object being unmarshaled.
- virtual bool **isMarshalAware** () const
Indicates that this command is aware of Marshaling, and needs to have its Marshaling methods invoked.
- virtual void **setAckHandler** (**core::ActiveMQAckHandler** *handler)
*Sets the Acknowledgment Handler that this **Message** (p. 1737) will use when the Acknowledge method is called.*
- virtual **core::ActiveMQAckHandler * getAckHandler** () const
*Gets the Acknowledgment Handler that this **Message** (p. 1737) will use when the Acknowledge method is called.*
- virtual unsigned int **getSize** () const
Returns the Size of this message in Bytes.

- virtual bool **isExpired** () const
Returns if this message has expired, meaning that its Expiration time has elapsed.
- **util::PrimitiveMap & getMessageProperties** ()
Gets a reference to the Message's Properties object, allows the derived classes to get and set their own specific properties.
- const **util::PrimitiveMap & getMessageProperties** () const
- bool **isReadOnlyProperties** () const
*Returns if the **Message** (p. 1737) Properties Are Read Only.*
- void **setReadOnlyProperties** (bool value)
*Set the Read Only State of the **Message** (p. 1737) Properties.*
- bool **isReadOnlyBody** () const
*Returns if the **Message** (p. 1737) Body is Read Only.*
- void **setReadOnlyBody** (bool value)
*Set the Read Only State of the **Message** (p. 1737) Content.*
- virtual const **Pointer< ProducerId > & getProducerId** () const
- virtual **Pointer< ProducerId > & getProducerId** ()
- virtual void **setProducerId** (const **Pointer< ProducerId > &producerId**)
- virtual const **Pointer< ActiveMQDestination > & getDestination** () const
- virtual **Pointer< ActiveMQDestination > & getDestination** ()
- virtual void **setDestination** (const **Pointer< ActiveMQDestination > &destination**)
- virtual const **Pointer< TransactionId > & getTransactionId** () const
- virtual **Pointer< TransactionId > & getTransactionId** ()
- virtual void **setTransactionId** (const **Pointer< TransactionId > &transactionId**)
- virtual const **Pointer< ActiveMQDestination > & getOriginalDestination** () const
- virtual **Pointer< ActiveMQDestination > & getOriginalDestination** ()
- virtual void **setOriginalDestination** (const **Pointer< ActiveMQDestination > &originalDestination**)
- virtual const **Pointer< MessageId > & getMessageId** () const
- virtual **Pointer< MessageId > & getMessageId** ()
- virtual void **setMessageId** (const **Pointer< MessageId > &messageId**)
- virtual const **Pointer< TransactionId > & getOriginalTransactionId** () const
- virtual **Pointer< TransactionId > & getOriginalTransactionId** ()
- virtual void **setOriginalTransactionId** (const **Pointer< TransactionId > &originalTransactionId**)
- virtual const std::string & **getGroupID** () const
- virtual std::string & **getGroupID** ()
- virtual void **setGroupID** (const std::string &groupID)
- virtual int **getGroupSequence** () const
- virtual void **setGroupSequence** (int groupSequence)
- virtual const std::string & **getCorrelationId** () const
- virtual std::string & **getCorrelationId** ()
- virtual void **setCorrelationId** (const std::string &correlationId)
- virtual bool **isPersistent** () const

- virtual void **setPersistent** (bool **persistent**)
- virtual long long **getExpiration** () const
- virtual void **setExpiration** (long long **expiration**)
- virtual unsigned char **getPriority** () const
- virtual void **setPriority** (unsigned char **priority**)
- virtual const **Pointer**< **ActiveMQDestination** > & **getReplyTo** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getReplyTo** ()
- virtual void **setReplyTo** (const **Pointer**< **ActiveMQDestination** > &**replyTo**)
- virtual long long **getTimestamp** () const
- virtual void **setTimestamp** (long long **timestamp**)
- virtual const std::string & **getType** () const
- virtual std::string & **getType** ()
- virtual void **setType** (const std::string &**type**)
- virtual const std::vector< unsigned char > & **getContent** () const
- virtual std::vector< unsigned char > & **getContent** ()
- virtual void **setContent** (const std::vector< unsigned char > &**content**)
- virtual const std::vector< unsigned char > & **getMarshallledProperties** () const
- virtual std::vector< unsigned char > & **getMarshallledProperties** ()
- virtual void **setMarshallledProperties** (const std::vector< unsigned char > &**marshallled-Properties**)
- virtual const **Pointer**< **DataStructure** > & **getDataStructure** () const
- virtual **Pointer**< **DataStructure** > & **getDataStructure** ()
- virtual void **setDataStructure** (const **Pointer**< **DataStructure** > &**dataStructure**)
- virtual const **Pointer**< **ConsumerId** > & **getTargetConsumerId** () const
- virtual **Pointer**< **ConsumerId** > & **getTargetConsumerId** ()
- virtual void **setTargetConsumerId** (const **Pointer**< **ConsumerId** > &**targetConsumerId**)
- virtual bool **isCompressed** () const
- virtual void **setCompressed** (bool **compressed**)
- virtual int **getRedeliveryCounter** () const
- virtual void **setRedeliveryCounter** (int **redeliveryCounter**)
- virtual const std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** () const
- virtual std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** ()
- virtual void **setBrokerPath** (const std::vector< **decaf::lang::Pointer**< **BrokerId** > > &**brokerPath**)
- virtual long long **getArrival** () const
- virtual void **setArrival** (long long **arrival**)
- virtual const std::string & **getUserID** () const
- virtual std::string & **getUserID** ()
- virtual void **setUserID** (const std::string &**userID**)
- virtual bool **isRecievedByDFBridge** () const
- virtual void **setRecievedByDFBridge** (bool **recievedByDFBridge**)
- virtual bool **isDroppable** () const
- virtual void **setDroppable** (bool **droppable**)
- virtual const std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getCluster** () const
- virtual std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getCluster** ()
- virtual void **setCluster** (const std::vector< **decaf::lang::Pointer**< **BrokerId** > > &**cluster**)
- virtual long long **getBrokerInTime** () const

- virtual void **setBrokerInTime** (long long **brokerInTime**)
- virtual long long **getBrokerOutTime** () const
- virtual void **setBrokerOutTime** (long long **brokerOutTime**)
- virtual bool **isMessage** () const
- virtual **Pointer**< **Command** > **visit** (**activemq::state::CommandVisitor** *visitor)
throw (exceptions::ActiveMQException)

Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_MESSAGE** = 0

Protected Member Functions

- **Message** (const **Message** &)
- **Message** & **operator=** (const **Message** &)

Protected Attributes

- **Pointer**< **ProducerId** > **producerId**
- **Pointer**< **ActiveMQDestination** > **destination**
- **Pointer**< **TransactionId** > **transactionId**
- **Pointer**< **ActiveMQDestination** > **originalDestination**
- **Pointer**< **MessageId** > **messageId**
- **Pointer**< **TransactionId** > **originalTransactionId**
- std::string **groupID**
- int **groupSequence**
- std::string **correlationId**
- bool **persistent**
- long long **expiration**
- unsigned char **priority**
- **Pointer**< **ActiveMQDestination** > **replyTo**
- long long **timestamp**
- std::string **type**
- std::vector< unsigned char > **content**
- std::vector< unsigned char > **marshalledProperties**
- **Pointer**< **DataStructure** > **dataStructure**
- **Pointer**< **ConsumerId** > **targetConsumerId**
- bool **compressed**
- int **redeliveryCounter**
- std::vector< **decaf::lang::Pointer**< **BrokerId** > > **brokerPath**
- long long **arrival**
- std::string **userID**
- bool **recievedByDFBridge**
- bool **droppable**
- std::vector< **decaf::lang::Pointer**< **BrokerId** > > **cluster**
- long long **brokerInTime**
- long long **brokerOutTime**

Static Protected Attributes

- static const unsigned int **DEFAULT_MESSAGE_SIZE** = 1024

6.348.1 Constructor & Destructor Documentation

6.348.1.1 `activemq::commands::Message::Message (const Message &) [inline, protected]`

6.348.1.2 `activemq::commands::Message::Message ()`

6.348.1.3 `virtual activemq::commands::Message::~~Message () [virtual]`

6.348.2 Member Function Documentation

6.348.2.1 `virtual void activemq::commands::Message::afterUnmarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException) [virtual]`

Called after unmarshaling is started to cleanup the object being unmarshaled.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control unmarshaling

Reimplemented from **activemq::commands::BaseDataStructure** (p. 558).

6.348.2.2 `virtual void activemq::commands::Message::beforeMarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException) [virtual]`

Handles the marshaling of the objects properties into the internal byte array before the object is marshaled to the wire.

Parameters:

wireFormat - the **wireformat** (p. 74) controller

Reimplemented from **activemq::commands::BaseDataStructure** (p. 558).

6.348.2.3 `virtual Message* activemq::commands::Message::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

Reimplemented in **activemq::commands::ActiveMQBlobMessage** (p. 147), **activemq::commands::ActiveMQBytesMessage** (p. 166),

activemq::commands::ActiveMQMapMessage (p. 258), **activemq::commands::ActiveMQMessage** (p. 280), **activemq::commands::ActiveMQObjectMessage** (p. 311), **activemq::commands::ActiveMQStreamMessage** (p. 377), and **activemq::commands::ActiveMQTextMessage** (p. 450).

6.348.2.4 **virtual void activemq::commands::Message::copyDataStructure (const DataStructure * *src*) [virtual]**

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

Reimplemented in **activemq::commands::ActiveMQBlobMessage** (p. 147), **activemq::commands::ActiveMQBytesMessage** (p. 167), **activemq::commands::ActiveMQMapMessage** (p. 258), **activemq::commands::ActiveMQMessage** (p. 280), **activemq::commands::ActiveMQObjectMessage** (p. 311), **activemq::commands::ActiveMQStreamMessage** (p. 377), and **activemq::commands::ActiveMQTextMessage** (p. 450).

6.348.2.5 **virtual bool activemq::commands::Message::equals (const DataStructure * *value*) const [virtual]**

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

Reimplemented in **activemq::commands::ActiveMQBlobMessage** (p. 148), **activemq::commands::ActiveMQBytesMessage** (p. 167), **activemq::commands::ActiveMQMapMessage** (p. 259), **activemq::commands::ActiveMQMessage** (p. 280), **activemq::commands::ActiveMQObjectMessage** (p. 311), **activemq::commands::ActiveMQStreamMessage** (p. 377), and **activemq::commands::ActiveMQTextMessage** (p. 450).

6.348.2.6 **virtual core::ActiveMQAckHandler* activemq::commands::Message::getAckHandler () const [inline, virtual]**

Gets the Acknowledgment Handler that this **Message** (p. 1737) will use when the Acknowledge method is called.

Returns:

handler ActiveMQAckHandler to call or NULL if not set

- 6.348.2.7 `virtual long long activemq::commands::Message::getArrival () const [virtual]`
- 6.348.2.8 `virtual long long activemq::commands::Message::getBrokerInTime () const [virtual]`
- 6.348.2.9 `virtual long long activemq::commands::Message::getBrokerOutTime () const [virtual]`
- 6.348.2.10 `virtual std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::Message::getBrokerPath () [virtual]`
- 6.348.2.11 `virtual const std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::Message::getBrokerPath () const [virtual]`
- 6.348.2.12 `virtual std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::Message::getCluster () [virtual]`
- 6.348.2.13 `virtual const std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::Message::getCluster () const [virtual]`
- 6.348.2.14 `virtual std::vector<unsigned char>& activemq::commands::Message::getContent () [virtual]`
- 6.348.2.15 `virtual const std::vector<unsigned char>& activemq::commands::Message::getContent () const [virtual]`
- 6.348.2.16 `virtual std::string& activemq::commands::Message::getCorrelationId () [virtual]`
- 6.348.2.17 `virtual const std::string& activemq::commands::Message::getCorrelationId () const [virtual]`
- 6.348.2.18 `virtual Pointer<DataStructure>& activemq::commands::Message::getDataStructure () [virtual]`
- 6.348.2.19 `virtual const Pointer<DataStructure>& activemq::commands::Message::getDataStructure () const [virtual]`
- 6.348.2.20 `virtual unsigned char activemq::commands::Message::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

Reimplemented in `activemq::commands::ActiveMQBlobMessage` (p. 148), `activemq::commands::ActiveMQBytesMessage` (p. 168), `activemq::commands::ActiveMQMapMessage` (p. 260), `activemq::commands::ActiveMQMessage` (p. 280), `activemq::commands::ActiveMQObjectMessage` (p. 312), `activemq::commands::ActiveMQStreamMessage` (p. 377), and `activemq::commands::ActiveMQTextMessage` (p. 451).

- 6.348.2.21** `virtual Pointer<ActiveMQDestination>& activemq::commands::Message::getDestination () [virtual]`
- 6.348.2.22** `virtual const Pointer<ActiveMQDestination>& activemq::commands::Message::getDestination () const [virtual]`
- 6.348.2.23** `virtual long long activemq::commands::Message::getExpiration () const [virtual]`
- 6.348.2.24** `virtual std::string& activemq::commands::Message::getGroupID () [virtual]`
- 6.348.2.25** `virtual const std::string& activemq::commands::Message::getGroupID () const [virtual]`
- 6.348.2.26** `virtual int activemq::commands::Message::getGroupSequence () const [virtual]`
- 6.348.2.27** `virtual std::vector<unsigned char>& activemq::commands::Message::getMarshaledProperties () [virtual]`
- 6.348.2.28** `virtual const std::vector<unsigned char>& activemq::commands::Message::getMarshaledProperties () const [virtual]`
- 6.348.2.29** `virtual Pointer<MessageId>& activemq::commands::Message::getMessageId () [virtual]`
- 6.348.2.30** `virtual const Pointer<MessageId>& activemq::commands::Message::getMessageId () const [virtual]`
- 6.348.2.31** `const util::PrimitiveMap& activemq::commands::Message::getMessageProperties () const [inline]`
- 6.348.2.32** `util::PrimitiveMap& activemq::commands::Message::getMessageProperties () [inline]`

Gets a reference to the Message's Properties object, allows the derived classes to get and set their own specific properties.

Returns:

a reference to the Primitive Map that holds message properties.

- 6.348.2.33** `virtual Pointer<ActiveMQDestination>& activemq::commands::Message::getOriginalDestination ()`
[virtual]
- 6.348.2.34** `virtual const Pointer<ActiveMQDestination>& activemq::commands::Message::getOriginalDestination () const`
[virtual]
- 6.348.2.35** `virtual Pointer<TransactionId>& activemq::commands::Message::getOriginalTransactionId ()`
[virtual]
- 6.348.2.36** `virtual const Pointer<TransactionId>& activemq::commands::Message::getOriginalTransactionId () const`
[virtual]
- 6.348.2.37** `virtual unsigned char activemq::commands::Message::getPriority ()`
const [virtual]
- 6.348.2.38** `virtual Pointer<ProducerId>& activemq::commands::Message::getProducerId ()`
[virtual]
- 6.348.2.39** `virtual const Pointer<ProducerId>& activemq::commands::Message::getProducerId () const`
[virtual]
- 6.348.2.40** `virtual int activemq::commands::Message::getRedeliveryCounter ()`
const [virtual]
- 6.348.2.41** `virtual Pointer<ActiveMQDestination>& activemq::commands::Message::getReplyTo ()` [virtual]
- 6.348.2.42** `virtual const Pointer<ActiveMQDestination>& activemq::commands::Message::getReplyTo () const` [virtual]
- 6.348.2.43** `virtual unsigned int activemq::commands::Message::getSize () const`
[virtual]

Returns the Size of this message in Bytes.

Returns:

number of bytes this message equates to.

- 6.348.2.44** `virtual Pointer<ConsumerId>& activemq::commands::Message::getTargetConsumerId ()`
[virtual]
- 6.348.2.45** `virtual const Pointer<ConsumerId>& activemq::commands::Message::getTargetConsumerId ()`
const [virtual]
- 6.348.2.46** `virtual long long activemq::commands::Message::getTimestamp () const`
[virtual]
- 6.348.2.47** `virtual Pointer<TransactionId>& activemq::commands::Message::getTransactionId ()`
[virtual]
- 6.348.2.48** `virtual const Pointer<TransactionId>& activemq::commands::Message::getTransactionId () const`
[virtual]
- 6.348.2.49** `virtual std::string& activemq::commands::Message::getType ()`
[virtual]
- 6.348.2.50** `virtual const std::string& activemq::commands::Message::getType ()`
const [virtual]
- 6.348.2.51** `virtual std::string& activemq::commands::Message::getUserID ()`
[virtual]
- 6.348.2.52** `virtual const std::string& activemq::commands::Message::getUserID ()`
const [virtual]
- 6.348.2.53** `virtual bool activemq::commands::Message::isCompressed () const`
[virtual]
- 6.348.2.54** `virtual bool activemq::commands::Message::isDroppable () const`
[virtual]
- 6.348.2.55** `virtual bool activemq::commands::Message::isExpired () const` [inline,
virtual]

Returns if this message has expired, meaning that its Expiration time has elapsed.

Returns:

true if message is expired.

References `decaf::util::Date::getCurrentTimeMilliseconds()`.

- 6.348.2.56** `virtual bool activemq::commands::Message::isMarshalAware () const`
[inline, virtual]

Indicates that this command is aware of Marshaling, and needs to have its Marshaling methods invoked.

Returns:

boolean indicating desire to be in marshaling stages

Reimplemented from **activemq::commands::BaseDataStructure** (p. 559).

Reimplemented in **activemq::commands::ActiveMQMapMessage** (p. 262), and **activemq::commands::ActiveMQStreamMessage** (p. 378).

6.348.2.57 `virtual bool activemq::commands::Message::isMessage () const`
[inline, virtual]

Returns:

an answer of true to the **isMessage()** (p. 1747) query.

Reimplemented from **activemq::commands::BaseCommand** (p. 510).

6.348.2.58 `virtual bool activemq::commands::Message::isPersistent () const`
[virtual]

6.348.2.59 `bool activemq::commands::Message::isReadOnlyBody () const` [inline]

Returns if the **Message** (p. 1737) Body is Read Only.

Returns:

true if **Message** (p. 1737) Content is Read Only.

6.348.2.60 `bool activemq::commands::Message::isReadOnlyProperties () const`
[inline]

Returns if the **Message** (p. 1737) Properties Are Read Only.

Returns:

true if **Message** (p. 1737) Properties are Read Only.

6.348.2.61 `virtual bool activemq::commands::Message::isRecievedByDFBridge ()`
`const` [virtual]

6.348.2.62 `Message& activemq::commands::Message::operator= (const Message &)`
[inline, protected]

6.348.2.63 `virtual void activemq::commands::Message::setAckHandler`
`(core::ActiveMQAckHandler * handler)` [inline, virtual]

Sets the Acknowledgment Handler that this **Message** (p. 1737) will use when the Acknowledge method is called.

Parameters:

handler ActiveMQAckHandler to call

- 6.348.2.64 virtual void activemq::commands::Message::setArrival (long long *arrival*) [virtual]
- 6.348.2.65 virtual void activemq::commands::Message::setBrokerInTime (long long *brokerInTime*) [virtual]
- 6.348.2.66 virtual void activemq::commands::Message::setBrokerOutTime (long long *brokerOutTime*) [virtual]
- 6.348.2.67 virtual void activemq::commands::Message::setBrokerPath (const std::vector< decaf::lang::Pointer< BrokerId > > & *brokerPath*) [virtual]
- 6.348.2.68 virtual void activemq::commands::Message::setCluster (const std::vector< decaf::lang::Pointer< BrokerId > > & *cluster*) [virtual]
- 6.348.2.69 virtual void activemq::commands::Message::setCompressed (bool *compressed*) [virtual]
- 6.348.2.70 virtual void activemq::commands::Message::setContent (const std::vector< unsigned char > & *content*) [virtual]
- 6.348.2.71 virtual void activemq::commands::Message::setCorrelationId (const std::string & *correlationId*) [virtual]
- 6.348.2.72 virtual void activemq::commands::Message::setDataStructure (const Pointer< DataStructure > & *dataStructure*) [virtual]
- 6.348.2.73 virtual void activemq::commands::Message::setDestination (const Pointer< ActiveMQDestination > & *destination*) [virtual]
- 6.348.2.74 virtual void activemq::commands::Message::setDroppable (bool *droppable*) [virtual]
- 6.348.2.75 virtual void activemq::commands::Message::setExpiration (long long *expiration*) [virtual]
- 6.348.2.76 virtual void activemq::commands::Message::setGroupID (const std::string & *groupID*) [virtual]
- 6.348.2.77 virtual void activemq::commands::Message::setGroupSequence (int *groupSequence*) [virtual]
- 6.348.2.78 virtual void activemq::commands::Message::setMarshaledProperties (const std::vector< unsigned char > & *marshalledProperties*) [virtual]
- 6.348.2.79 virtual void activemq::commands::Message::setMessageId (const Pointer< MessageId > & *messageId*) [virtual]
- 6.348.2.80 virtual void activemq::commands::Message::setOriginalDestination (const Pointer< ActiveMQDestination > & *originalDestination*) [virtual]
- 6.348.2.81 virtual void activemq::commands::Message::setOriginalTransactionId (const Pointer< TransactionId > & *originalTransactionId*) [virtual]

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- 6.348.2.82 virtual void activemq::commands::Message::setPersistent (bool *persistent*) [virtual]
- 6.348.2.83 virtual void activemq::commands::Message::setPriority (unsigned char *priority*) [virtual]

Parameters:

value - true if Content should be read only.

6.348.2.86 void `activemq::commands::Message::setReadOnlyProperties` (bool *value*) [inline]

Set the Read Only State of the **Message** (p. 1737) Properties.

Parameters:

value - true if Properties should be read only.

6.348.2.87 virtual void `activemq::commands::Message::setRecievedByDFBridge` (bool *recievedByDFBridge*) [virtual]

6.348.2.88 virtual void `activemq::commands::Message::setRedeliveryCounter` (int *redeliveryCounter*) [virtual]

6.348.2.89 virtual void `activemq::commands::Message::setReplyTo` (const Pointer< ActiveMQDestination > & *replyTo*) [virtual]

6.348.2.90 virtual void `activemq::commands::Message::setTargetConsumerId` (const Pointer< ConsumerId > & *targetConsumerId*) [virtual]

6.348.2.91 virtual void `activemq::commands::Message::setTimestamp` (long long *timestamp*) [virtual]

6.348.2.92 virtual void `activemq::commands::Message::setTransactionId` (const Pointer< TransactionId > & *transactionId*) [virtual]

6.348.2.93 virtual void `activemq::commands::Message::setType` (const std::string & *type*) [virtual]

6.348.2.94 virtual void `activemq::commands::Message::setUserID` (const std::string & *userID*) [virtual]

6.348.2.95 virtual std::string `activemq::commands::Message::toString` () const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p. 512).

Reimplemented in `activemq::commands::ActiveMQBlobMessage` (p. 150), `activemq::commands::ActiveMQBytesMessage` (p. 173), `activemq::commands::ActiveMQMapMessage` (p. 266), `activemq::commands::ActiveMQMessage` (p. 281), `activemq::commands::ActiveMQObjectMessage` (p. 312), `activemq::commands::ActiveMQStreamMessage` (p. 382), and `activemq::commands::ActiveMQTextMessage` (p. 452).

6.348.2.96 `virtual Pointer<Command> activemq::commands::Message::visit
 (activemq::state::CommandVisitor * visitor) throw (
 exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.348.3 Field Documentation

- 6.348.3.1 `long long activemq::commands::Message::arrival` [protected]
- 6.348.3.2 `long long activemq::commands::Message::brokerInTime` [protected]
- 6.348.3.3 `long long activemq::commands::Message::brokerOutTime` [protected]
- 6.348.3.4 `std::vector< decaf::lang::Pointer<BrokerId> > activemq::commands::Message::brokerPath` [protected]
- 6.348.3.5 `std::vector< decaf::lang::Pointer<BrokerId> > activemq::commands::Message::cluster` [protected]
- 6.348.3.6 `bool activemq::commands::Message::compressed` [protected]
- 6.348.3.7 `std::vector<unsigned char> activemq::commands::Message::content` [protected]
- 6.348.3.8 `std::string activemq::commands::Message::correlationId` [protected]
- 6.348.3.9 `Pointer<DataStructure> activemq::commands::Message::dataStructure` [protected]
- 6.348.3.10 `const unsigned int activemq::commands::Message::DEFAULT_MESSAGE_SIZE = 1024` [static, protected]
- 6.348.3.11 `Pointer<ActiveMQDestination> activemq::commands::Message::destination` [protected]
- 6.348.3.12 `bool activemq::commands::Message::droppable` [protected]
- 6.348.3.13 `long long activemq::commands::Message::expiration` [protected]
- 6.348.3.14 `std::string activemq::commands::Message::groupId` [protected]
- 6.348.3.15 `int activemq::commands::Message::groupSequence` [protected]
- 6.348.3.16 `const unsigned char activemq::commands::Message::ID_MESSAGE = 0` [static]
- 6.348.3.17 `std::vector<unsigned char> activemq::commands::Message::marshalledProperties` [protected]
- 6.348.3.18 `Pointer<MessageId> activemq::commands::Message::messageId` [protected]
- 6.348.3.19 `Pointer<ActiveMQDestination> activemq::commands::Message::originalDestination` [protected]
- 6.348.3.20 `Pointer<TransactionId> activemq::commands::Message::originalTransactionId` [protected]

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- 6.348.3.21 `bool activemq::commands::Message::persistent` [protected]
- 6.348.3.22 `unsigned char activemq::commands::Message::priority` [protected]

- 6.348.3.23 `Pointer<ProducerId> activemq::commands::Message::producerId` [protected]

- `src/main/activemq/commands/Message.h`

6.349 cms::Message Class Reference

Root of all messages.

#include <src/main/cms/Message.h> Inheritance diagram for cms::Message:

Public Member Functions

- virtual **~Message** ()
- virtual **Message * clone** () const =0
Clone this message exactly, returns a new instance that the caller is required to delete.
- virtual void **acknowledge** () const =0 throw (CMSEException)
Acknowledges all consumed messages of the session of this consumed message.
- virtual void **clearBody** ()=0 throw (CMSEException)
Clears out the body of the message.
- virtual void **clearProperties** ()=0 throw (CMSEException)
Clears out the message body.
- virtual std::vector< std::string > **getPropertyNames** () const =0 throw (CMSEException)
Retrieves the property names.
- virtual bool **propertyExists** (const std::string &name) const =0 throw (CMSEException)
Indicates whether or not a given property exists.
- virtual bool **getBooleanProperty** (const std::string &name) const =0 throw (CMSEException)
Gets a boolean property.
- virtual unsigned char **getByteProperty** (const std::string &name) const =0 throw (CMSEException)
Gets a byte property.
- virtual double **getDoubleProperty** (const std::string &name) const =0 throw (CMSEException)
Gets a double property.
- virtual float **getFloatProperty** (const std::string &name) const =0 throw (CMSEException)
Gets a float property.
- virtual int **getIntProperty** (const std::string &name) const =0 throw (CMSEException)
Gets a int property.

- virtual long long **getLongProperty** (const std::string &name) const =0 throw (CMSException)
Gets a long property.
- virtual short **getShortProperty** (const std::string &name) const =0 throw (CMSException)
Gets a short property.
- virtual std::string **getStringProperty** (const std::string &name) const =0 throw (CMSException)
Gets a string property.
- virtual void **setBooleanProperty** (const std::string &name, bool value)=0 throw (CMSException)
Sets a boolean property.
- virtual void **setByteProperty** (const std::string &name, unsigned char value)=0 throw (CMSException)
Sets a byte property.
- virtual void **setDoubleProperty** (const std::string &name, double value)=0 throw (CMSException)
Sets a double property.
- virtual void **setFloatProperty** (const std::string &name, float value)=0 throw (CMSException)
Sets a float property.
- virtual void **setIntProperty** (const std::string &name, int value)=0 throw (CMSException)
Sets a int property.
- virtual void **setLongProperty** (const std::string &name, long long value)=0 throw (CMSException)
Sets a long property.
- virtual void **setShortProperty** (const std::string &name, short value)=0 throw (CMSException)
Sets a short property.
- virtual void **setStringProperty** (const std::string &name, const std::string &value)=0 throw (CMSException)
Sets a string property.
- virtual std::string **getCMSCorrelationID** () const =0 throw (CMSException)
Gets the correlation ID for the message.
- virtual void **setCMSCorrelationID** (const std::string &correlationId)=0 throw (CMSException)
Sets the correlation ID for the message.

- virtual int **getCMSDeliveryMode** () const =0 throw (CMSEException)
*Gets the **DeliveryMode** (p. 1188) for this message.*
- virtual void **setCMSDeliveryMode** (int mode)=0 throw (CMSEException)
*Sets the **DeliveryMode** (p. 1188) for this message.*
- virtual const **Destination** * **getCMSDestination** () const =0 throw (CMSEException)
*Gets the **Destination** (p. 1190) object for this message.*
- virtual void **setCMSDestination** (const **Destination** *destination)=0 throw (CMSEException)
*Sets the **Destination** (p. 1190) object for this message.*
- virtual long long **getCMSExpiration** () const =0 throw (CMSEException)
Gets the message's expiration value.
- virtual void **setCMSExpiration** (long long expireTime)=0 throw (CMSEException)
Sets the message's expiration value.
- virtual std::string **getCMSMessageID** () const =0 throw (CMSEException)
The CMSMessageID header field contains a value that uniquely identifies each message sent by a provider.
- virtual void **setCMSMessageID** (const std::string &id)=0 throw (CMSEException)
Sets the message ID.
- virtual int **getCMSPriority** () const =0 throw (CMSEException)
Gets the message priority level.
- virtual void **setCMSPriority** (int priority)=0 throw (CMSEException)
Sets the Priority Value for this message.
- virtual bool **getCMSRedelivered** () const =0 throw (CMSEException)
Gets an indication of whether this message is being redelivered.
- virtual void **setCMSRedelivered** (bool redelivered)=0 throw (CMSEException)
Specifies whether this message is being redelivered.
- virtual const **cms::Destination** * **getCMSReplyTo** () const =0 throw (CMSEException)
*Gets the **Destination** (p. 1190) object to which a reply to this message should be sent.*
- virtual void **setCMSReplyTo** (const **cms::Destination** *destination)=0 throw (CMSEException)
*Sets the **Destination** (p. 1190) object to which a reply to this message should be sent.*
- virtual long long **getCMSTimestamp** () const =0 throw (CMSEException)
Gets the message timestamp.
- virtual void **setCMSTimestamp** (long long timeStamp)=0 throw (CMSEException)

Sets the message timestamp.

- virtual std::string **getCMSType** () const =0 throw (CMSEException)

Gets the message type identifier supplied by the client when the message was sent.

- virtual void **setCMSType** (const std::string &type)=0 throw (CMSEException)

Sets the message type.

6.349.1 Detailed Description

Root of all messages. As in JMS, a message is comprised of 3 parts: CMS-specific headers, user-defined properties, and the body.

Message (p. 1753) Bodies

The CMS API defines four types of message bodies, each type is contained within its own **Message** (p. 1753) Interface definition.

- Stream - A **StreamMessage** (p. 2476) object's message body contains a stream of primitive values in the C++ language. It is filled and read sequentially. Unlike the **BytesMessage** (p. 759) type the values written to a **StreamMessage** (p. 2476) retain information on their type and rules for type conversion are enforced when reading back the values from the **Message** (p. 1753) Body.
- Map - A **MapMessage** (p. 1701) object's message body contains a set of name-value pairs, where names are std::string objects, and values are C++ primitives. The entries can be accessed sequentially or randomly by name. The **MapMessage** (p. 1701) makes no guarantee on the order of the elements within the **Message** (p. 1753) body.
- Text - A **TextMessage** (p. 2542) object's message body contains a std::string object. This message type can be used to transport plain-text messages, and XML messages.
- Bytes - A **BytesMessage** (p. 759) object's message body contains a stream of uninterpreted bytes. This message type is for literally encoding a body to match an existing message format. In many cases, it is possible to use one of the other body types, which are easier to use.

Message (p. 1753) Properties

Message (p. 1753) properties support the following conversion table. The marked cases must be supported. The unmarked cases must throw a **CMSEException** (p. 850). The String-to-primitive conversions may throw a runtime exception if the primitive's valueOf method does not accept the String as a valid representation of the primitive.

A value written as the row type can be read as the column type.

	boolean	byte	short	int	long	float	double	String
boolean	X							X
byte		X	X	X	X			X
short			X	X	X			X
int				X	X			X
long					X			X
float						X	X	X
double							X	X
String	X	X	X	X	X	X	X	X

When a **Message** (p. 1753) is delivered its properties are considered to be in a read-only mode and cannot be changed. Attempting to change the value of a delivered Message's properties will result in a **CMSEException** (p. 850) being thrown.

See also:

JMS API

Since:

1.0

6.349.2 Constructor & Destructor Documentation

6.349.2.1 virtual cms::Message::~Message () [inline, virtual]

6.349.3 Member Function Documentation

6.349.3.1 virtual void cms::Message::acknowledge () const throw (CMSEException) [pure virtual]

Acknowledges all consumed messages of the session of this consumed message. All consumed CMS messages support the acknowledge method for use when a client has specified that its CMS session's consumed messages are to be explicitly acknowledged. By invoking acknowledge on a consumed message, a client acknowledges all messages consumed by the session that the message was delivered to.

Calls to acknowledge are ignored for both transacted sessions and sessions specified to use implicit acknowledgment modes.

A client may individually acknowledge each message as it is consumed, or it may choose to acknowledge messages as an application-defined group (which is done by calling acknowledge on the last received message of the group, thereby acknowledging all messages consumed by the session.)

Messages that have been received but not acknowledged may be redelivered.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

IllegalStateException (p. 1399) - if this method is called on a closed session.

Implemented in **activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >** (p. 297), **activemq::commands::ActiveMQMessageTemplate< cms::MapMessage >** (p. 297), **activemq::commands::ActiveMQMessageTemplate< cms::Message >** (p. 297), **activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >** (p. 297), **activemq::commands::ActiveMQMessageTemplate< cms::TextMessage >** (p. 297), and **activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >** (p. 297).

6.349.3.2 virtual void cms::Message::clearBody () throw (CMSEException) [pure virtual]

Clears out the body of the message. This does not clear the headers or properties.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQBytesMessage` (p. 166), `activemq::commands::ActiveMQStreamMessage` (p. 376), `activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >` (p. 297), `activemq::commands::ActiveMQMessageTemplate< cms::MapMessage >` (p. 297), `activemq::commands::ActiveMQMessageTemplate< cms::Message >` (p. 297), `activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >` (p. 297), `activemq::commands::ActiveMQMessageTemplate< cms::TextMessage >` (p. 297), and `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >` (p. 297).

6.349.3.3 `virtual void cms::Message::clearProperties () throw (CMSEException)` [pure virtual]

Clears out the message body. Clearing a message's body does not clear its header values or property entries.

If this message body was read-only, calling this method leaves the message body in the same state as an empty body in a newly created message.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >` (p. 298), `activemq::commands::ActiveMQMessageTemplate< cms::MapMessage >` (p. 298), `activemq::commands::ActiveMQMessageTemplate< cms::Message >` (p. 298), `activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >` (p. 298), `activemq::commands::ActiveMQMessageTemplate< cms::TextMessage >` (p. 298), and `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >` (p. 298).

6.349.3.4 `virtual Message* cms::Message::clone () const` [pure virtual]

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

Implemented in `activemq::commands::ActiveMQBlobMessage` (p. 147), `activemq::commands::ActiveMQBytesMessage` (p. 166), `activemq::commands::ActiveMQMapMessage` (p. 258), `activemq::commands::ActiveMQMessage` (p. 279), `activemq::commands::ActiveMQObjectMessage` (p. 311), `activemq::commands::ActiveMQStreamMessage` (p. 376), `activemq::commands::ActiveMQTextMessage` (p. 450), and `cms::BytesMessage` (p. 762).

6.349.3.5 `virtual bool cms::Message::getBooleanProperty (const std::string & name) const throw (CMSEException)` [pure virtual]

Gets a boolean property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 298), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 298).

6.349.3.6 virtual unsigned char cms::Message::getByteProperty (const std::string & name) const throw (CMSEException) [pure virtual]

Gets a byte property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 298), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 298).

6.349.3.7 virtual std::string cms::Message::getCMSCorrelationID () const throw (CMSEException) [pure virtual]

Gets the correlation ID for the message. This method is used to return correlation ID values that are either provider-specific message IDs or application-specific String values.

Returns:

string representation of the correlation Id

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 298), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 298), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 298).

6.349.3.8 `virtual int cms::Message::getCMSDeliveryMode () const throw (CMSEException) [pure virtual]`

Gets the **DeliveryMode** (p. 1188) for this message.

Returns:

DeliveryMode (p. 1188) enumerated value.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 299), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 299), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 299), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 299), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 299), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 299).

6.349.3.9 `virtual const Destination* cms::Message::getCMSDestination () const throw (CMSEException) [pure virtual]`

Gets the **Destination** (p. 1190) object for this message. The **CMSDestination** header field contains the destination to which the message is being sent.

When a message is sent, this field is ignored. After completion of the send or publish method, the field holds the destination specified by the method.

When a message is received, its **CMSDestination** value must be equivalent to the value assigned when it was sent.

Returns:

Destination (p. 1190) object

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 299), `activemq::commands::ActiveMQMessageTemplate<`

cms::MapMessage > (p. 299), **activemq::commands::ActiveMQMessageTemplate**<
cms::Message > (p. 299), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 299), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 299), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 299).

6.349.3.10 virtual long long cms::Message::getCMSExpiration () const throw (CMSException) [pure virtual]

Gets the message's expiration value. When a message is sent, the CMSExpiration header field is left unassigned. After completion of the send or publish method, it holds the expiration time of the message. This is the sum of the time-to-live value specified by the client and the GMT at the time of the send or publish.

If the time-to-live is specified as zero, CMSExpiration is set to zero to indicate that the message does not expire.

When a message's expiration time is reached, a provider should discard it. The CMS API does not define any form of notification of message expiration.

Clients should not receive messages that have expired; however, the CMS API does not guarantee that this will not happen.

Returns:

the time the message expires, which is the sum of the time-to-live value specified by the client and the GMT at the time of the send

Exceptions:

CMSException (p. 850) - if an internal error occurs.

Implemented in **activemq::commands::ActiveMQMessageTemplate**<
cms::BytesMessage > (p. 299), **activemq::commands::ActiveMQMessageTemplate**<
cms::MapMessage > (p. 299), **activemq::commands::ActiveMQMessageTemplate**<
cms::Message > (p. 299), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 299), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 299), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 299).

6.349.3.11 virtual std::string cms::Message::getCMSMessageID () const throw (CMSException) [pure virtual]

The CMSMessageID header field contains a value that uniquely identifies each message sent by a provider. When a message is sent, CMSMessageID can be ignored. When the send or publish method returns, it contains a provider-assigned value.

A CMSMessageID is a String value that should function as a unique key for identifying messages in a historical repository. The exact scope of uniqueness is provider-defined. It should at least cover all messages for a specific installation of a provider, where an installation is some connected set of message routers.

All CMSMessageID values must start with the prefix 'ID:'. Uniqueness of message ID values across different providers is not required.

Since message IDs take some effort to create and increase a message's size, some CMS providers may be able to optimize message overhead if they are given a hint that the message ID is not used

by an application. By calling the **MessageProducer.setDisableMessageID** (p. 1883) method, a CMS client enables this potential optimization for all messages sent by that message producer. If the CMS provider accepts this hint, these messages must have the message ID set to null; if the provider ignores the hint, the message ID must be set to its normal unique value.

Returns:

provider-assigned message id

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented	in	activemq::commands::ActiveMQMessageTemplate<
cms::BytesMessage	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::MapMessage	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::Message	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::StreamMessage	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::TextMessage	> (p. 300), and	activemq::commands::ActiveMQMessageTemplate<
cms::ObjectMessage	> (p. 300).	

6.349.3.12 **virtual int cms::Message::getCMSPriority () const throw (**
CMSEException) [pure virtual]

Gets the message priority level. The CMS API defines ten levels of priority value, with 0 as the lowest priority and 9 as the highest. In addition, clients should consider priorities 0-4 as gradations of normal priority and priorities 5-9 as gradations of expedited priority.

The CMS API does not require that a provider strictly implement priority ordering of messages; however, it should do its best to deliver expedited messages ahead of normal messages.

Returns:

priority value

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented	in	activemq::commands::ActiveMQMessageTemplate<
cms::BytesMessage	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::MapMessage	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::Message	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::StreamMessage	> (p. 300),	activemq::commands::ActiveMQMessageTemplate<
cms::TextMessage	> (p. 300), and	activemq::commands::ActiveMQMessageTemplate<
cms::ObjectMessage	> (p. 300).	

6.349.3.13 **virtual bool cms::Message::getCMSRedelivered () const throw (**
CMSEException) [pure virtual]

Gets an indication of whether this message is being redelivered. If a client receives a message with the CMSRedelivered field set, it is likely, but not guaranteed, that this message was delivered earlier but that its receipt was not acknowledged at that time.

Returns:

true if this message is being redelivered

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 300), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 300).

6.349.3.14 `virtual const cms::Destination* cms::Message::getCMSReplyTo () const throw (CMSEException)` [pure virtual]

Gets the **Destination** (p. 1190) object to which a reply to this message should be sent.

Returns:

Destination (p. 1190) to which to send a response to this message

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 300), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 300), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 300).

6.349.3.15 `virtual long long cms::Message::getCMSTimestamp () const throw (CMSEException)` [pure virtual]

Gets the message timestamp. The `CMSTimestamp` header field contains the time a message was handed off to a provider to be sent. It is not the time the message was actually transmitted, because the actual send may occur later due to transactions or other client-side queuing of messages.

When a message is sent, `CMSTimestamp` is ignored. When the send or publish method returns, it contains a time value somewhere in the interval between the call and the return. The value is in the format of a normal millis time value in the Java programming language.

Since timestamps take some effort to create and increase a message's size, some CMS providers may be able to optimize message overhead if they are given a hint that the timestamp is not used by an application. By calling the `MessageProducer.setDisableMessageTimestamp` method, a CMS client enables this potential optimization for all messages sent by that message producer. If the CMS provider accepts this hint, these messages must have the timestamp set to zero; if the provider ignores the hint, the timestamp must be set to its normal value.

Returns:

the message timestamp

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 301), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 301).

6.349.3.16 `virtual std::string cms::Message::getCMSType () const throw (CMSEException) [pure virtual]`

Gets the message type identifier supplied by the client when the message was sent.

Returns:

the message type

See also:

`setCMSType` (p. 1773)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 301), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 301).

6.349.3.17 `virtual double cms::Message::getDoubleProperty (const std::string & name) const throw (CMSEException) [pure virtual]`

Gets a double property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 301), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 301), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 301).

6.349.3.18 `virtual float cms::Message::getFloatProperty (const std::string & name)
const throw (CMSException) [pure virtual]`

Gets a float property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 302), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 302), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 302), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 302), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 302), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 302).

6.349.3.19 `virtual int cms::Message::getIntProperty (const std::string & name)
const throw (CMSException) [pure virtual]`

Gets a int property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<`
`cms::BytesMessage >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::MapMessage >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::Message >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::StreamMessage >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::TextMessage >` (p. 302), and `activemq::commands::ActiveMQMessageTemplate<`
`cms::ObjectMessage >` (p. 302).

6.349.3.20 `virtual long long cms::Message::getLongProperty (const std::string & name) const throw (CMSEException) [pure virtual]`

Gets a long property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<`
`cms::BytesMessage >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::MapMessage >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::Message >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::StreamMessage >` (p. 302), `activemq::commands::ActiveMQMessageTemplate<`
`cms::TextMessage >` (p. 302), and `activemq::commands::ActiveMQMessageTemplate<`
`cms::ObjectMessage >` (p. 302).

6.349.3.21 `virtual std::vector<std::string> cms::Message::getPropertyNames () const throw (CMSEException) [pure virtual]`

Retrieves the property names.

Returns:

The complete set of property names currently in this message.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<`
`cms::BytesMessage >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<`
`cms::MapMessage >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<`
`cms::Message >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<`
`cms::StreamMessage >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<`
`cms::TextMessage >` (p. 303), and `activemq::commands::ActiveMQMessageTemplate<`
`cms::ObjectMessage >` (p. 303).

6.349.3.22 virtual short cms::Message::getShortProperty (const std::string & name) const throw (CMSException) [pure virtual]

Gets a short property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 303), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 303).

6.349.3.23 virtual std::string cms::Message::getStringProperty (const std::string & name) const throw (CMSException) [pure virtual]

Gets a string property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException (p. 850) if the property does not exist.

MessageFormatException (p. 1842) - if this type conversion is invalid.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 303), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 303).

6.349.3.24 `virtual bool cms::Message::propertyExists (const std::string & name)
const throw (CMSEException)` [pure virtual]

Indicates whether or not a given property exists.

Parameters:

name The name of the property to look up.

Returns:

True if the property exists in this message.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 303), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 303), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 303).

6.349.3.25 `virtual void cms::Message::setBooleanProperty (const std::string & name, bool value) throw (CMSEException)` [pure virtual]

Sets a boolean property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 304), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 304).

6.349.3.26 `virtual void cms::Message::setByteProperty (const std::string & name, unsigned char value) throw (CMSEException)` [pure virtual]

Sets a byte property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage>` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::Message>` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage>` (p. 304), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage>` (p. 304), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage>` (p. 304).

6.349.3.27 virtual void cms::Message::setCMSCorrelationID (const std::string & *correlationId*) throw (CMSEException) [pure virtual]

Sets the correlation ID for the message. A client can use the CMSCorrelationID header field to link one message with another. A typical use is to link a response message with its request message.

CMSCorrelationID can hold one of the following:

- A provider-specific message ID
- An application-specific String
- A provider-native byte[] value

Since each message sent by a CMS provider is assigned a message ID value, it is convenient to link messages via message ID. All message ID values must start with the 'ID:' prefix.

In some cases, an application (made up of several clients) needs to use an application-specific value for linking messages. For instance, an application may use CMSCorrelationID to hold a value referencing some external information. Application-specified values must not start with the 'ID:' prefix; this is reserved for provider-generated message ID values.

If a provider supports the native concept of correlation ID, a CMS client may need to assign specific CMSCorrelationID values to match those expected by clients that do not use the CMS API. A byte[] value is used for this purpose. CMS providers without native correlation ID values are not required to support byte[] values. The use of a byte[] value for CMSCorrelationID is non-portable.

Parameters:

correlationId The message ID of a message being referred to.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage>` (p. 304), `activemq::commands::ActiveMQMessageTemplate<`

cms::MapMessage > (p. 304), **activemq::commands::ActiveMQMessageTemplate**<
cms::Message > (p. 304), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 304), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 304), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 304).

6.349.3.28 virtual void cms::Message::setCMSDeliveryMode (int *mode*) throw (CMSEException) [pure virtual]

Sets the **DeliveryMode** (p. 1188) for this message. CMS providers set this field when a message is sent. This method can be used to change the value for a message that has been received.

Parameters:

mode **DeliveryMode** (p. 1188) enumerated value.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::commands::ActiveMQMessageTemplate**<
cms::BytesMessage > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::MapMessage > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::Message > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 305), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 305).

6.349.3.29 virtual void cms::Message::setCMSDestination (const Destination * *destination*) throw (CMSEException) [pure virtual]

Sets the **Destination** (p. 1190) object for this message. CMS providers set this field when a message is sent. This method can be used to change the value for a message that has been received.

Parameters:

destination **Destination** (p. 1190) Object

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::commands::ActiveMQMessageTemplate**<
cms::BytesMessage > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::MapMessage > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::Message > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 305), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 305), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 305).

6.349.3.30 virtual void cms::Message::setCMSExpiration (long long *expireTime*) throw (CMSException) [pure virtual]

Sets the message's expiration value. CMS providers set this field when a message is sent. This method can be used to change the value for a message that has been received.

Parameters:

expireTime the message's expiration time

Exceptions:

CMSException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 305), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 305), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 305), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 305), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 305), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 305).

6.349.3.31 virtual void cms::Message::setCMSMessageID (const std::string & *id*) throw (CMSException) [pure virtual]

Sets the message ID. CMS providers set this field when a message is sent. This method can be used to change the value for a message that has been received.

Parameters:

id the ID of the message

Exceptions:

CMSException (p. 850) - if an internal error occurs.

6.349.3.32 virtual void cms::Message::setCMSPriority (int *priority*) throw (CMSException) [pure virtual]

Sets the Priority Value for this message. CMS providers set this field when a message is sent. This method can be used to change the value for a message that has been received.

Parameters:

priority priority value for this message

Exceptions:

CMSException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 306), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 306), `activemq::commands::ActiveMQMessageTemplate<`

`cms::Message` > (p. 306), `activemq::commands::ActiveMQMessageTemplate<`
`cms::StreamMessage` > (p. 306), `activemq::commands::ActiveMQMessageTemplate<`
`cms::TextMessage` > (p. 306), and `activemq::commands::ActiveMQMessageTemplate<`
`cms::ObjectMessage` > (p. 306).

6.349.3.33 `virtual void cms::Message::setCMSRedelivered (bool redelivered) throw (CMSEException)` [pure virtual]

Specifies whether this message is being redelivered. This field is set at the time the message is delivered. This method can be used to change the value for a message that has been received.

Parameters:

redelivered boolean redelivered value

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<`
`cms::BytesMessage` > (p. 306), `activemq::commands::ActiveMQMessageTemplate<`
`cms::MapMessage` > (p. 306), `activemq::commands::ActiveMQMessageTemplate<`
`cms::Message` > (p. 306), `activemq::commands::ActiveMQMessageTemplate<`
`cms::StreamMessage` > (p. 306), `activemq::commands::ActiveMQMessageTemplate<`
`cms::TextMessage` > (p. 306), and `activemq::commands::ActiveMQMessageTemplate<`
`cms::ObjectMessage` > (p. 306).

6.349.3.34 `virtual void cms::Message::setCMSReplyTo (const cms::Destination * destination) throw (CMSEException)` [pure virtual]

Sets the **Destination** (p. 1190) object to which a reply to this message should be sent. The CMSReplyTo header field contains the destination where a reply to the current message should be sent. If it is null, no reply is expected. The destination may be either a **Queue** (p. 2157) object or a **Topic** (p. 2571) object.

Messages sent with a null CMSReplyTo value may be a notification of some event, or they may just be some data the sender thinks is of interest.

Messages with a CMSReplyTo value typically expect a response. A response is optional; it is up to the client to decide. These messages are called requests. A message sent in response to a request is called a reply.

In some cases a client may wish to match a request it sent earlier with a reply it has just received. The client can use the CMSCorrelationID header field for this purpose.

Parameters:

destination **Destination** (p. 1190) to which to send a response to this message

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<`
`cms::BytesMessage` > (p. 306), `activemq::commands::ActiveMQMessageTemplate<`

cms::MapMessage > (p. 306), activemq::commands::ActiveMQMessageTemplate<
 cms::Message > (p. 306), activemq::commands::ActiveMQMessageTemplate<
 cms::StreamMessage > (p. 306), activemq::commands::ActiveMQMessageTemplate<
 cms::TextMessage > (p. 306), and activemq::commands::ActiveMQMessageTemplate<
 cms::ObjectMessage > (p. 306).

6.349.3.35 virtual void cms::Message::setCMSTimestamp (long long *timeStamp*) throw (CMSEException) [pure virtual]

Sets the message timestamp. CMS providers set this field when a message is sent. This method can be used to change the value for a message that has been received.

Parameters:

timeStamp integer time stamp value

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in activemq::commands::ActiveMQMessageTemplate<
 cms::BytesMessage > (p. 307), activemq::commands::ActiveMQMessageTemplate<
 cms::MapMessage > (p. 307), activemq::commands::ActiveMQMessageTemplate<
 cms::Message > (p. 307), activemq::commands::ActiveMQMessageTemplate<
 cms::StreamMessage > (p. 307), activemq::commands::ActiveMQMessageTemplate<
 cms::TextMessage > (p. 307), and activemq::commands::ActiveMQMessageTemplate<
 cms::ObjectMessage > (p. 307).

6.349.3.36 virtual void cms::Message::setCMSType (const std::string & *type*) throw (CMSEException) [pure virtual]

Sets the message type. Some CMS providers use a message repository that contains the definitions of messages sent by applications. The CMSType header field may reference a message's definition in the provider's repository.

The CMS API does not define a standard message definition repository, nor does it define a naming policy for the definitions it contains.

Some messaging systems require that a message type definition for each application message be created and that each message specify its type. In order to work with such CMS providers, CMS clients should assign a value to CMSType, whether the application makes use of it or not. This ensures that the field is properly set for those providers that require it.

To ensure portability, CMS clients should use symbolic values for CMSType that can be configured at installation time to the values defined in the current provider's message repository. If string literals are used, they may not be valid type names for some CMS providers.

Parameters:

type the message type

See also:

getCMSType (p. 1764)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 307), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 307).

6.349.3.37 `virtual void cms::Message::setDoubleProperty (const std::string & name, double value) throw (CMSEException)` [pure virtual]

Sets a double property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::Message >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::StreamMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::TextMessage >` (p. 307), and `activemq::commands::ActiveMQMessageTemplate<cms::ObjectMessage >` (p. 307).

6.349.3.38 `virtual void cms::Message::setFloatProperty (const std::string & name, float value) throw (CMSEException)` [pure virtual]

Sets a float property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in `activemq::commands::ActiveMQMessageTemplate<cms::BytesMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<cms::MapMessage >` (p. 307), `activemq::commands::ActiveMQMessageTemplate<`

cms::Message > (p. 307), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 307), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 307), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 307).

6.349.3.39 `virtual void cms::Message::setIntProperty (const std::string & name, int value) throw (CMSException)` [pure virtual]

Sets a int property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in **activemq::commands::ActiveMQMessageTemplate**<
cms::BytesMessage > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::MapMessage > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::Message > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 308), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 308).

6.349.3.40 `virtual void cms::Message::setLongProperty (const std::string & name, long long value) throw (CMSException)` [pure virtual]

Sets a long property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in **activemq::commands::ActiveMQMessageTemplate**<
cms::BytesMessage > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::MapMessage > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::Message > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::StreamMessage > (p. 308), **activemq::commands::ActiveMQMessageTemplate**<
cms::TextMessage > (p. 308), and **activemq::commands::ActiveMQMessageTemplate**<
cms::ObjectMessage > (p. 308).

6.349.3.41 `virtual void cms::Message::setShortProperty (const std::string & name, short value) throw (CMSEException)` [pure virtual]

Sets a short property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in `activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >` (p. 308), `activemq::commands::ActiveMQMessageTemplate< cms::MapMessage >` (p. 308), `activemq::commands::ActiveMQMessageTemplate< cms::Message >` (p. 308), `activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >` (p. 308), `activemq::commands::ActiveMQMessageTemplate< cms::TextMessage >` (p. 308), and `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >` (p. 308).

6.349.3.42 `virtual void cms::Message::setStringProperty (const std::string & name, const std::string & value) throw (CMSEException)` [pure virtual]

Sets a string property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSEException (p. 850) - if the name is an empty string.

MessageNotWriteableException (p. 1877) - if properties are read-only

Implemented in `activemq::commands::ActiveMQMessageTemplate< cms::BytesMessage >` (p. 309), `activemq::commands::ActiveMQMessageTemplate< cms::MapMessage >` (p. 309), `activemq::commands::ActiveMQMessageTemplate< cms::Message >` (p. 309), `activemq::commands::ActiveMQMessageTemplate< cms::StreamMessage >` (p. 309), `activemq::commands::ActiveMQMessageTemplate< cms::TextMessage >` (p. 309), and `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >` (p. 309).

The documentation for this class was generated from the following file:

- `src/main/cms/Message.h`

6.350 activemq::commands::MessageAck Class Reference

#include <src/main/activemq/commands/MessageAck.h> Inheritance diagram for activemq::commands::MessageAck:

Public Member Functions

- **MessageAck** ()
- virtual **~MessageAck** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **MessageAck * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual const **Pointer**< **TransactionId** > & **getTransactionId** () const
- virtual **Pointer**< **TransactionId** > & **getTransactionId** ()
- virtual void **setTransactionId** (const **Pointer**< **TransactionId** > &transactionId)
- virtual const **Pointer**< **ConsumerId** > & **getConsumerId** () const
- virtual **Pointer**< **ConsumerId** > & **getConsumerId** ()
- virtual void **setConsumerId** (const **Pointer**< **ConsumerId** > &consumerId)
- virtual unsigned char **getAckType** () const
- virtual void **setAckType** (unsigned char ackType)
- virtual const **Pointer**< **MessageId** > & **getFirstMessageId** () const
- virtual **Pointer**< **MessageId** > & **getFirstMessageId** ()
- virtual void **setFirstMessageId** (const **Pointer**< **MessageId** > &firstMessageId)
- virtual const **Pointer**< **MessageId** > & **getLastMessageId** () const
- virtual **Pointer**< **MessageId** > & **getLastMessageId** ()
- virtual void **setLastMessageId** (const **Pointer**< **MessageId** > &lastMessageId)
- virtual int **getMessageCount** () const
- virtual void **setMessageCount** (int messageCount)
- virtual bool **isMessageAck** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor)
throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_MESSAGEACK** = 22

Protected Member Functions

- **MessageAck** (const MessageAck &)
- **MessageAck & operator=** (const MessageAck &)

Protected Attributes

- **Pointer< ActiveMQDestination > destination**
- **Pointer< TransactionId > transactionId**
- **Pointer< ConsumerId > consumerId**
- unsigned char **ackType**
- **Pointer< MessageId > firstMessageId**
- **Pointer< MessageId > lastMessageId**
- int **messageCount**

6.350.1 Constructor & Destructor Documentation

6.350.1.1 **activemq::commands::MessageAck::MessageAck** (const MessageAck &)
[inline, protected]

6.350.1.2 **activemq::commands::MessageAck::MessageAck** ()

6.350.1.3 **virtual activemq::commands::MessageAck::~~MessageAck** () [virtual]

6.350.2 Member Function Documentation

6.350.2.1 **virtual MessageAck* activemq::commands::MessageAck::cloneDataStructure** ()
const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

6.350.2.2 **virtual void activemq::commands::MessageAck::copyDataStructure**
(const DataStructure * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.350.2.3 virtual bool activemq::commands::MessageAck::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.350.2.4 virtual unsigned char activemq::commands::MessageAck::getAckType () const [virtual]

6.350.2.5 virtual Pointer<ConsumerId>& activemq::commands::MessageAck::getConsumerId () [virtual]

6.350.2.6 virtual const Pointer<ConsumerId>& activemq::commands::MessageAck::getConsumerId () const [virtual]

6.350.2.7 virtual unsigned char activemq::commands::MessageAck::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.350.2.8** `virtual Pointer<ActiveMQDestination>& activemq::commands::MessageAck::getDestination ()`
[virtual]
- 6.350.2.9** `virtual const Pointer<ActiveMQDestination>& activemq::commands::MessageAck::getDestination () const` [virtual]
- 6.350.2.10** `virtual Pointer<MessageId>& activemq::commands::MessageAck::getFirstMessageId ()`
[virtual]
- 6.350.2.11** `virtual const Pointer<MessageId>& activemq::commands::MessageAck::getFirstMessageId ()`
`const` [virtual]
- 6.350.2.12** `virtual Pointer<MessageId>& activemq::commands::MessageAck::getLastMessageId ()`
[virtual]
- 6.350.2.13** `virtual const Pointer<MessageId>& activemq::commands::MessageAck::getLastMessageId ()`
`const` [virtual]
- 6.350.2.14** `virtual int activemq::commands::MessageAck::getMessageCount () const`
[virtual]
- 6.350.2.15** `virtual Pointer<TransactionId>& activemq::commands::MessageAck::getTransactionId ()`
[virtual]
- 6.350.2.16** `virtual const Pointer<TransactionId>& activemq::commands::MessageAck::getTransactionId () const`
[virtual]
- 6.350.2.17** `virtual bool activemq::commands::MessageAck::isMessageAck () const`
[inline, virtual]

Returns:

an answer of true to the `isMessageAck()` (p. 1780) query.

Reimplemented from `activemq::commands::BaseCommand` (p. 510).

- 6.350.2.18 `MessageAck& activemq::commands::MessageAck::operator= (const MessageAck &) [inline, protected]`
- 6.350.2.19 `virtual void activemq::commands::MessageAck::setAckType (unsigned char ackType) [virtual]`
- 6.350.2.20 `virtual void activemq::commands::MessageAck::setConsumerId (const Pointer< ConsumerId > & consumerId) [virtual]`
- 6.350.2.21 `virtual void activemq::commands::MessageAck::setDestination (const Pointer< ActiveMQDestination > & destination) [virtual]`
- 6.350.2.22 `virtual void activemq::commands::MessageAck::setFirstMessageId (const Pointer< MessageId > & firstMessageId) [virtual]`
- 6.350.2.23 `virtual void activemq::commands::MessageAck::setLastMessageId (const Pointer< MessageId > & lastMessageId) [virtual]`
- 6.350.2.24 `virtual void activemq::commands::MessageAck::setMessageCount (int messageCount) [virtual]`
- 6.350.2.25 `virtual void activemq::commands::MessageAck::setTransactionId (const Pointer< TransactionId > & transactionId) [virtual]`
- 6.350.2.26 `virtual std::string activemq::commands::MessageAck::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p.512).

- 6.350.2.27 `virtual Pointer<Command> activemq::commands::MessageAck::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p.2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p.883).

6.350.3 Field Documentation

- 6.350.3.1 `unsigned char activemq::commands::MessageAck::ackType` [protected]
- 6.350.3.2 `Pointer<ConsumerId> activemq::commands::MessageAck::consumerId` [protected]
- 6.350.3.3 `Pointer<ActiveMQDestination> activemq::commands::MessageAck::destination` [protected]
- 6.350.3.4 `Pointer<MessageId> activemq::commands::MessageAck::firstMessageId` [protected]
- 6.350.3.5 `const unsigned char activemq::commands::MessageAck::ID_ - MESSAGEACK = 22` [static]
- 6.350.3.6 `Pointer<MessageId> activemq::commands::MessageAck::lastMessageId` [protected]
- 6.350.3.7 `int activemq::commands::MessageAck::messageCount` [protected]
- 6.350.3.8 `Pointer<TransactionId> activemq::commands::MessageAck::transactionId` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/MessageAck.h`

6.351 activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageAckMarshaller** (p.1783).

#include <src/main/activemq/wireformat/openwire/marshal/v2/MessageAckMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller:

Public Member Functions

- **MessageAckMarshaller** ()
- virtual **~MessageAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.351.1 Detailed Description

Marshaling code for Open Wire Format for **MessageAckMarshaller** (p.1783). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.351.2 Constructor & Destructor Documentation

6.351.2.1 `activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::MessageAckMarshaller()` [inline]

6.351.2.2 `virtual activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::~~MessageAckMarshaller()` [inline, virtual]

6.351.3 Member Function Documentation

6.351.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.351.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.351.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.351.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.351.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.351.3.6 virtual void activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.351.3.7 virtual void activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/MessageAckMarshaller.h

6.352 activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageAckMarshaller** (p.1787).

#include <src/main/activemq/wireformat/openwire/marshal/v3/MessageAckMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller:

Public Member Functions

- **MessageAckMarshaller** ()
- virtual **~MessageAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.352.1 Detailed Description

Marshaling code for Open Wire Format for **MessageAckMarshaller** (p.1787). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.352.2 Constructor & Destructor Documentation

6.352.2.1 `activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::MessageAckMarshaller()` [inline]

6.352.2.2 `virtual activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::~MessageAckMarshaller()` [inline, virtual]

6.352.3 Member Function Documentation

6.352.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.352.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.352.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.352.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.352.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.352.3.6 virtual void activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.352.3.7 virtual void activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/MessageAckMarshaller.h

6.353 activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1791).

#include <src/main/activemq/wireformat/openwire/marshal/v1/MessageAckMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller:

Public Member Functions

- **MessageAckMarshaller** ()
- virtual **~MessageAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.353.1 Detailed Description

Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1791). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.353.2 Constructor & Destructor Documentation

6.353.2.1 `activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::MessageAckMarshaller()` [inline]

6.353.2.2 `virtual activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::~~MessageAckMarshaller()` [inline, virtual]

6.353.3 Member Function Documentation

6.353.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.353.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.353.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 522).

6.353.3.4 **virtual void ac-**
tivemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::looseUnmarshal
(**OpenWireFormat** * *wireFormat*, **commands::DataStructure**
* *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) **throw (**
decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 523).

6.353.3.5 **virtual int ac-**
tivemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::tightMarshal1
(**OpenWireFormat** * *wireFormat*, **commands::DataStructure** *
dataStructure, **utils::BooleanStream** * *bs*) **throw (decaf::io::IOException**
) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 524).

6.353.3.6 virtual void activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.353.3.7 virtual void activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/MessageAckMarshaller.h

6.354 cms::MessageConsumer Class Reference

A client uses a `MessageConsumer` (p. 1795) to received messages from a destination.

```
#include <src/main/cms/MessageConsumer.h> Inheritance diagram for cms::MessageConsumer:
```

Public Member Functions

- virtual `~MessageConsumer ()`
- virtual `Message * receive ()=0 throw (CMSEException)`
*Synchronously Receive a **Message** (p. 1753).*
- virtual `Message * receive (int millisecs)=0 throw (CMSEException)`
*Synchronously Receive a **Message** (p. 1753), time out after defined interval.*
- virtual `Message * receiveNoWait ()=0 throw (CMSEException)`
*Receive a **Message** (p. 1753), does not wait if there isn't a new message to read, returns **NULL** if nothing read.*
- virtual void `setMessageListener (MessageListener *listener)=0 throw (CMSEException)`
*Sets the **MessageListener** (p. 1860) that this class will send notifs on.*
- virtual `MessageListener * getMessageListener () const =0 throw (CMSEException)`
*Gets the **MessageListener** (p. 1860) that this class will send new **Message** (p. 1753) notification events to.*
- virtual std::string `getMessageSelector () const =0 throw (cms::CMSEException)`
Gets this message consumer's message selector expression.

6.354.1 Detailed Description

A client uses a `MessageConsumer` (p. 1795) to received messages from a destination. A client may either synchronously receive a message consumer's messages or have the consumer asynchronously deliver them as they arrive.

For synchronous receipt, a client can request the next message from a message consumer using one of its `receive` methods. There are several variations of `receive` that allow a client to poll or wait for the next message.

For asynchronous delivery, a client can register a `MessageListener` (p. 1860) object with a message consumer. As messages arrive at the message consumer, it delivers them by calling the `MessageListener` (p. 1860)'s `onMessage` method.

When the `MessageConsumer`'s close method is called the method can block while an asynchronous message delivery is in progress or until a `receive` operation completes. A blocked consumer in a `receive` call will return a Null when the close method is called.

See also:

`MessageListener` (p. 1860)

Since:

1.0

6.354.2 Constructor & Destructor Documentation

6.354.2.1 `virtual cms::MessageConsumer::~~MessageConsumer () [inline, virtual]`

6.354.3 Member Function Documentation

6.354.3.1 `virtual MessageListener* cms::MessageConsumer::getMessageListener () const throw (CMSEException) [pure virtual]`

Gets the `MessageListener` (p. 1860) that this class will send new `Message` (p. 1753) notification events to.

Returns:

The listener of messages received by this consumer

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::cmsutil::CachedConsumer` (p. 774), and `activemq::core::ActiveMQConsumer` (p. 224).

6.354.3.2 `virtual std::string cms::MessageConsumer::getMessageSelector () const throw (cms::CMSEException) [pure virtual]`

Gets this message consumer's message selector expression.

Returns:

This Consumer's selector expression or "".

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::cmsutil::CachedConsumer` (p. 774), and `activemq::core::ActiveMQConsumer` (p. 224).

6.354.3.3 `virtual Message* cms::MessageConsumer::receive (int millisecs) throw (CMSEException) [pure virtual]`

Synchronously Receive a `Message` (p.1753), time out after defined interval. Returns null if nothing read.

Returns:

new message which the caller owns and must delete.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::cmsutil::CachedConsumer` (p. 774), and `activemq::core::ActiveMQConsumer` (p. 224).

6.354.3.4 `virtual Message* cms::MessageConsumer::receive () throw (CMSEException)` [pure virtual]

Synchronously Receive a **Message** (p. 1753).

Returns:

new message which the caller owns and must delete.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::cmsutil::CachedConsumer` (p. 775), and `activemq::core::ActiveMQConsumer` (p. 225).

6.354.3.5 `virtual Message* cms::MessageConsumer::receiveNoWait () throw (CMSEException)` [pure virtual]

Receive a **Message** (p. 1753), does not wait if there isn't a new message to read, returns NULL if nothing read.

Returns:

new message which the caller owns and must delete.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::cmsutil::CachedConsumer` (p. 775), and `activemq::core::ActiveMQConsumer` (p. 225).

6.354.3.6 `virtual void cms::MessageConsumer::setMessageListener (MessageListener * listener) throw (CMSEException)` [pure virtual]

Sets the **MessageListener** (p. 1860) that this class will send notifs on.

Parameters:

listener The listener of messages received by this consumer.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::cmsutil::CachedConsumer` (p. 775), and `activemq::core::ActiveMQConsumer` (p. 226).

The documentation for this class was generated from the following file:

- `src/main/cms/MessageConsumer.h`

6.355 activemq::cmsutil::MessageCreator Class Reference

Creates the user-defined message to be sent by the CmsTemplate (p. 858).

```
#include <src/main/activemq/cmsutil/MessageCreator.h>
```

Public Member Functions

- virtual `~MessageCreator()`
- virtual `cms::Message * createMessage (cms::Session *session)=0` throw (cms::CMSException)

Creates a message from the given session.

6.355.1 Detailed Description

Creates the user-defined message to be sent by the CmsTemplate (p. 858).

6.355.2 Constructor & Destructor Documentation

- 6.355.2.1** virtual `activemq::cmsutil::MessageCreator::~MessageCreator()`
[inline, virtual]

6.355.3 Member Function Documentation

- 6.355.3.1** virtual `cms::Message* activemq::cmsutil::MessageCreator::createMessage (cms::Session * session)` throw (cms::CMSException) [pure virtual]

Creates a message from the given session.

Parameters:

session the CMS Session

Exceptions:

cms::CMSException (p. 850) if thrown by CMS API methods

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/MessageCreator.h`

6.356 activemq::commands::MessageDispatch Class Reference

#include <src/main/activemq/commands/MessageDispatch.h> Inheritance diagram for activemq::commands::MessageDispatch:

Public Member Functions

- **MessageDispatch** ()
- virtual **~MessageDispatch** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **MessageDispatch** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConsumerId** > & **getConsumerId** () const
- virtual **Pointer**< **ConsumerId** > **getConsumerId** ()
- virtual void **setConsumerId** (const **Pointer**< **ConsumerId** > &consumerId)
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual const **Pointer**< **Message** > & **getMessage** () const
- virtual **Pointer**< **Message** > & **getMessage** ()
- virtual void **setMessage** (const **Pointer**< **Message** > &message)
- virtual int **getRedeliveryCounter** () const
- virtual void **setRedeliveryCounter** (int redeliveryCounter)
- virtual bool **isMessageDispatch** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_MESSAGE_DISPATCH** = 21

Protected Member Functions

- **MessageDispatch** (const **MessageDispatch** &)
- **MessageDispatch** & **operator=** (const **MessageDispatch** &)

Protected Attributes

- **Pointer**< **ConsumerId** > **consumerId**
- **Pointer**< **ActiveMQDestination** > **destination**
- **Pointer**< **Message** > **message**
- **int** **redeliveryCounter**

6.356.1 Constructor & Destructor Documentation

- 6.356.1.1** **activemq::commands::MessageDispatch::MessageDispatch** (const **MessageDispatch** &) [inline, protected]
- 6.356.1.2** **activemq::commands::MessageDispatch::MessageDispatch** ()
- 6.356.1.3** **virtual activemq::commands::MessageDispatch::~~MessageDispatch** () [virtual]

6.356.2 Member Function Documentation

- 6.356.2.1** **virtual MessageDispatch* activemq::commands::MessageDispatch::cloneDataStructure** () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

- 6.356.2.2** **virtual void activemq::commands::MessageDispatch::copyDataStructure** (const **DataStructure** * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.356.2.3 `virtual bool activemq::commands::MessageDispatch::equals (const DataStructure * value) const` [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.356.2.4 `virtual Pointer<ConsumerId>& activemq::commands::MessageDispatch::getConsumerId ()` [virtual]

6.356.2.5 `virtual const Pointer<ConsumerId>& activemq::commands::MessageDispatch::getConsumerId () const` [virtual]

6.356.2.6 `virtual unsigned char activemq::commands::MessageDispatch::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.356.2.7 `virtual Pointer<ActiveMQDestination>& activemq::commands::MessageDispatch::getDestination ()`
[virtual]
- 6.356.2.8 `virtual const Pointer<ActiveMQDestination>& activemq::commands::MessageDispatch::getDestination () const`
[virtual]
- 6.356.2.9 `virtual Pointer<Message>& activemq::commands::MessageDispatch::getMessage ()`
[virtual]
- 6.356.2.10 `virtual const Pointer<Message>& activemq::commands::MessageDispatch::getMessage () const` [virtual]
- 6.356.2.11 `virtual int activemq::commands::MessageDispatch::getRedeliveryCounter () const`
[virtual]
- 6.356.2.12 `virtual bool activemq::commands::MessageDispatch::isMessageDispatch () const` [inline, virtual]

Returns:

an answer of true to the `isMessageDispatch()` (p.1803) query.

Reimplemented from `activemq::commands::BaseCommand` (p.510).

- 6.356.2.13 `MessageDispatch& activemq::commands::MessageDispatch::operator=(const MessageDispatch &)` [inline, protected]
- 6.356.2.14 `virtual void activemq::commands::MessageDispatch::setConsumerId(const Pointer< ConsumerId > & consumerId)` [virtual]
- 6.356.2.15 `virtual void activemq::commands::MessageDispatch::setDestination(const Pointer< ActiveMQDestination > & destination)` [virtual]
- 6.356.2.16 `virtual void activemq::commands::MessageDispatch::setMessage(const Pointer< Message > & message)` [virtual]
- 6.356.2.17 `virtual void activemq::commands::MessageDispatch::setRedeliveryCounter(int redeliveryCounter)` [virtual]
- 6.356.2.18 `virtual std::string activemq::commands::MessageDispatch::toString () const` [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p. 512).

6.356.2.19 `virtual Pointer<Command> activemq::commands::MessageDispatch::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.356.3 Field Documentation

6.356.3.1 `Pointer<ConsumerId> activemq::commands::MessageDispatch::consumerId` [protected]

6.356.3.2 `Pointer<ActiveMQDestination> activemq::commands::MessageDispatch::destination` [protected]

6.356.3.3 `const unsigned char activemq::commands::MessageDispatch::ID_ - MESSAGEDISPATCH = 21` [static]

6.356.3.4 `Pointer<Message> activemq::commands::MessageDispatch::message` [protected]

6.356.3.5 `int activemq::commands::MessageDispatch::redeliveryCounter` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/MessageDispatch.h`

6.357 activemq::core::MessageDispatchChannel Class Reference

#include <src/main/activemq/core/MessageDispatchChannel.h> Inheritance diagram for activemq::core::MessageDispatchChannel:

Public Member Functions

- **MessageDispatchChannel** ()
- virtual **~MessageDispatchChannel** ()
- void **enqueue** (const **Pointer**< **MessageDispatch** > &message)
Add a Message to the Channel behind all pending message.
- void **enqueueFirst** (const **Pointer**< **MessageDispatch** > &message)
Add a message to the front of the Channel.
- bool **isEmpty** () const
- bool **isClosed** () const
- bool **isRunning** () const
- **Pointer**< **MessageDispatch** > **dequeue** (long long timeout) throw (exceptions::ActiveMQException)
Used to get an enqueued message.
- **Pointer**< **MessageDispatch** > **dequeueNoWait** ()
Used to get an enqueued message if there is one queued right now.
- **Pointer**< **MessageDispatch** > **peek** () const
Peek in the Queue and return the first message in the Channel without removing it from the channel.
- void **start** ()
Starts dispatch of messages from the Channel.
- void **stop** ()
Stops dispatch of message from the Channel.
- void **close** ()
Close this channel no messages will be dispatched after this method is called.
- void **clear** ()
Clear the Channel, all pending messages are removed.
- int **size** () const
- std::vector< **Pointer**< **MessageDispatch** > > **removeAll** ()
Remove all messages that are currently in the Channel and return them as a list of Messages.
- virtual void **lock** () throw (decaf::lang::Exception)

Locks the object.

- virtual void **unlock** () throw (decaf::lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (decaf::lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (decaf::lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (decaf::lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (decaf::lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.357.1 Constructor & Destructor Documentation

6.357.1.1 activemq::core::MessageDispatchChannel::MessageDispatchChannel ()

6.357.1.2 virtual
activemq::core::MessageDispatchChannel::~~MessageDispatchChannel ()
[virtual]

6.357.2 Member Function Documentation

6.357.2.1 void activemq::core::MessageDispatchChannel::clear ()

Clear the Channel, all pending messages are removed.

6.357.2.2 void activemq::core::MessageDispatchChannel::close ()

Close this channel no messages will be dispatched after this method is called.

6.357.2.3 Pointer<MessageDispatch> activemq::core::MessageDispatchChannel::dequeue (long long *timeout*) throw (exceptions::ActiveMQException)

Used to get an enqueued message. The amount of time this method blocks is based on the timeout value. - if timeout== -1 then it blocks until a message is received. - if timeout==0 then it tries to not block at all, it returns a message if it is available - if timeout>0 then it blocks up to timeout amount of time. Expired messages will be consumed by this method.

Returns:

null if we timeout or if the consumer is closed.

Exceptions:

ActiveMQException

6.357.2.4 `Pointer<MessageDispatch> activemq::core::MessageDispatchChannel::dequeueNoWait()`

Used to get an enqueued message if there is one queued right now. If there is no waiting message than this method returns Null.

Returns:

a message if there is one in the queue.

6.357.2.5 `void activemq::core::MessageDispatchChannel::enqueue (const Pointer<MessageDispatch> & message)`

Add a Message to the Channel behind all pending message.

Parameters:

message - The message to add to the Channel.

6.357.2.6 `void activemq::core::MessageDispatchChannel::enqueueFirst (const Pointer<MessageDispatch> & message)`

Add a message to the front of the Channel.

Parameters:

message - The Message to add to the front of the Channel.

6.357.2.7 `bool activemq::core::MessageDispatchChannel::isClosed () const [inline]`

Returns:

has the Queue been closed.

6.357.2.8 `bool activemq::core::MessageDispatchChannel::isEmpty () const`

Returns:

true if there are no messages in the Channel.

6.357.2.9 `bool activemq::core::MessageDispatchChannel::isRunning () const [inline]`

Returns:

true if the Channel currently running and will dequeue message.

6.357.2.10 `virtual void activemq::core::MessageDispatchChannel::lock () throw (decaf::lang::Exception) [inline, virtual]`

Locks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2508).

6.357.2.11 `virtual void activemq::core::MessageDispatchChannel::notify () throw (decaf::lang::Exception) [inline, virtual]`

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2510).

6.357.2.12 `virtual void activemq::core::MessageDispatchChannel::notifyAll () throw (decaf::lang::Exception) [inline, virtual]`

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2511).

6.357.2.13 `Pointer<MessageDispatch> activemq::core::MessageDispatchChannel::peek () const`

Peek in the Queue and return the first message in the Channel without removing it from the channel.

Returns:

a message if there is one in the queue.

6.357.2.14 `std::vector< Pointer<MessageDispatch> > activemq::core::MessageDispatchChannel::removeAll ()`

Remove all messages that are currently in the Channel and return them as a list of Messages.

Returns:

a list of Messages that was previously in the Channel.

6.357.2.15 `int activemq::core::MessageDispatchChannel::size () const`**Returns:**

the number of Messages currently in the Channel.

6.357.2.16 `void activemq::core::MessageDispatchChannel::start ()`

Starts dispatch of messages from the Channel.

6.357.2.17 `void activemq::core::MessageDispatchChannel::stop ()`

Stops dispatch of message from the Channel.

6.357.2.18 `virtual void activemq::core::MessageDispatchChannel::unlock () throw (decaf::lang::Exception) [inline, virtual]`

Unlocks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2512).

6.357.2.19 `virtual void activemq::core::MessageDispatchChannel::wait (unsigned long milliseconds) throw (decaf::lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2513).

6.357.2.20 `virtual void activemq::core::MessageDispatchChannel::wait () throw (decaf::lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

The documentation for this class was generated from the following file:

- `src/main/activemq/core/MessageDispatchChannel.h`

6.358 activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p.1811).

#include <src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller:

Public Member Functions

- **MessageDispatchMarshaller** ()
- virtual **~MessageDispatchMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.358.1 Detailed Description

Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p.1811). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.358.2 Constructor & Destructor Documentation

6.358.2.1 `activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::MessageDispatch`
 () [inline]

6.358.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::~~MessageDispatch`
 () [inline, virtual]

6.358.3 Member Function Documentation

6.358.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::createObject`
 () const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.358.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::getDataStructure`
 () const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.358.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::looseMarshal`
 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.358.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.358.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.358.3.6 virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.358.3.7 virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchMarshaller.h

6.359 activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p.1815).

#include <src/main/activemq/wireformat/openwire/marshal/v3/MessageDispatchMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller:

Public Member Functions

- **MessageDispatchMarshaller** ()
- virtual **~MessageDispatchMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.359.1 Detailed Description

Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p.1815). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.359.2 Constructor & Destructor Documentation

6.359.2.1 `activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::MessageDispatch`
 () [inline]

6.359.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::~~MessageDispatch`
 () [inline, virtual]

6.359.3 Member Function Documentation

6.359.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::createObject`
 () const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.359.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::getDataStructure`
 () const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.359.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::looseMarshal`
 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.359.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.359.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.359.3.6 virtual void activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.359.3.7 virtual void activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/MessageDispatchMarshaller.h

6.360 activemq::wireformat::openwire::marshal::v1::MessageDispatchMa Class Reference

Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1819).

#include <src/main/activemq/wireformat/openwire/marshal/v1/MessageDispatchMarshaller.h>Inheritance
 diagram for activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller:

Public Member Functions

- **MessageDispatchMarshaller** ()
- virtual **~MessageDispatchMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **com-
 mands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn,
utils::BooleanStream *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **com-
 mands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (de-
 caf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **com-
 mands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut,
utils::BooleanStream *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **com-
 mands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **com-
 mands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut)
 throw (decaf::io::IOException)
Write a object instance to data output stream.

6.360.1 Detailed Description

Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1819). NOTE!
 This file is auto generated - do not modify! if you need to make a change, please see the Java
 Classes in the activemq-openwire-generator module

6.360.2 Constructor & Destructor Documentation

6.360.2.1 `activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::MessageDispatch`
 () [inline]

6.360.2.2 `virtual`
`activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::~~MessageDispatch`
 () [inline, virtual]

6.360.3 Member Function Documentation

6.360.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::createObject`
 () const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.360.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::getDataStructure`
 () const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.360.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::looseMarshal`
 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.360.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.360.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.360.3.6 virtual void activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.360.3.7 virtual void activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/MessageDispatchMarshaller.h

6.361 activemq::commands::MessageDispatchNotification Class Reference

#include <src/main/activemq/commands/MessageDispatchNotification.h> Inheritance diagram for activemq::commands::MessageDispatchNotification:

Public Member Functions

- **MessageDispatchNotification** ()
- virtual **~MessageDispatchNotification** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **MessageDispatchNotification * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConsumerId** > & **getConsumerId** () const
- virtual **Pointer**< **ConsumerId** > & **getConsumerId** ()
- virtual void **setConsumerId** (const **Pointer**< **ConsumerId** > &consumerId)
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual long long **getDeliverySequenceId** () const
- virtual void **setDeliverySequenceId** (long long deliverySequenceId)
- virtual const **Pointer**< **MessageId** > & **getMessageId** () const
- virtual **Pointer**< **MessageId** > & **getMessageId** ()
- virtual void **setMessageId** (const **Pointer**< **MessageId** > &messageId)
- virtual bool **isMessageDispatchNotification** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_MESSAGE_DISPATCH_NOTIFICATION** = 90

Protected Member Functions

- **MessageDispatchNotification** (const MessageDispatchNotification &)
- **MessageDispatchNotification & operator=** (const MessageDispatchNotification &)

Protected Attributes

- **Pointer< ConsumerId > consumerId**
- **Pointer< ActiveMQDestination > destination**
- **long long deliverySequenceId**
- **Pointer< MessageId > messageId**

6.361.1 Constructor & Destructor Documentation

- 6.361.1.1** **activemq::commands::MessageDispatchNotification::MessageDispatchNotification** (const MessageDispatchNotification &) [inline, protected]
- 6.361.1.2** **activemq::commands::MessageDispatchNotification::MessageDispatchNotification** ()
- 6.361.1.3** **virtual**
activemq::commands::MessageDispatchNotification::~~MessageDispatchNotification () [virtual]

6.361.2 Member Function Documentation

- 6.361.2.1** **virtual MessageDispatchNotification* ac-**
tivemq::commands::MessageDispatchNotification::cloneDataStructure ()
const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

- 6.361.2.2** **virtual void ac-**
tivemq::commands::MessageDispatchNotification::copyDataStructure
(const DataStructure * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.361.2.3 virtual bool activemq::commands::MessageDispatchNotification::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.361.2.4 virtual Pointer<ConsumerId>& activemq::commands::MessageDispatchNotification::getConsumerId () [virtual]

6.361.2.5 virtual const Pointer<ConsumerId>& activemq::commands::MessageDispatchNotification::getConsumerId () const [virtual]

6.361.2.6 virtual unsigned char activemq::commands::MessageDispatchNotification::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.361.2.7** `virtual long long activemq::commands::MessageDispatchNotification::getDeliverySequenceId () const [virtual]`
- 6.361.2.8** `virtual Pointer<ActiveMQDestination>& activemq::commands::MessageDispatchNotification::getDestination () [virtual]`
- 6.361.2.9** `virtual const Pointer<ActiveMQDestination>& activemq::commands::MessageDispatchNotification::getDestination () const [virtual]`
- 6.361.2.10** `virtual Pointer<MessageId>& activemq::commands::MessageDispatchNotification::getMessageId () [virtual]`
- 6.361.2.11** `virtual const Pointer<MessageId>& activemq::commands::MessageDispatchNotification::getMessageId () const [virtual]`
- 6.361.2.12** `virtual bool activemq::commands::MessageDispatchNotification::isMessageDispatchNotification () const [inline, virtual]`

Returns:

an answer of true to the `isMessageDispatchNotification()` (p. 1826) query.

Reimplemented from `activemq::commands::BaseCommand` (p. 510).

- 6.361.2.13** `MessageDispatchNotification& activemq::commands::MessageDispatchNotification::operator= (const MessageDispatchNotification &) [inline, protected]`
- 6.361.2.14** `virtual void activemq::commands::MessageDispatchNotification::setConsumerId (const Pointer< ConsumerId > & consumerId) [virtual]`
- 6.361.2.15** `virtual void activemq::commands::MessageDispatchNotification::setDeliverySequenceId (long long deliverySequenceId) [virtual]`
- 6.361.2.16** `virtual void activemq::commands::MessageDispatchNotification::setDestination (const Pointer< ActiveMQDestination > & destination) [virtual]`
- 6.361.2.17** `virtual void activemq::commands::MessageDispatchNotification::setMessageId (const Pointer< MessageId > & messageId) [virtual]`
- 6.361.2.18** `virtual std::string activemq::commands::MessageDispatchNotification::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p.512).

- 6.361.2.19** `virtual Pointer<Command> activemq::commands::MessageDispatchNotification::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p.2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p.883).

6.361.3 Field Documentation

- 6.361.3.1 `Pointer<ConsumerId> activemq::commands::MessageDispatchNotification::consumerId`
[protected]
- 6.361.3.2 `long long activemq::commands::MessageDispatchNotification::deliverySequenceId`
[protected]
- 6.361.3.3 `Pointer<ActiveMQDestination> activemq::commands::MessageDispatchNotification::destination`
[protected]
- 6.361.3.4 `const unsigned char activemq::commands::MessageDispatchNotification::ID - MESSAGEDISPATCHNOTIFICATION = 90` [static]
- 6.361.3.5 `Pointer<MessageId> activemq::commands::MessageDispatchNotification::messageId`
[protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/MessageDispatchNotification.h`

Class Reference

Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p.1829).

#include <src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchNotificationMarshaller
 diagram for activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller:

Public Member Functions

- **MessageDispatchNotificationMarshaller** ()
- virtual **~MessageDispatchNotificationMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.362.1 Detailed Description

Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p.1829). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.362.2 Constructor & Destructor Documentation

6.362.2.1 `activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::MessageDispatchNotificationMarshaller()` [inline]

6.362.2.2 `virtual activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::~MessageDispatchNotificationMarshaller()` [inline, virtual]

6.362.3 Member Function Documentation

6.362.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::createDataStructure()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.362.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.362.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::marshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.362 **activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller**
Class Reference 1831
 Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller**
 (p. 529).

6.362.3.4 **virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::looseUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException)** [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller**
 (p. 530).

6.362.3.5 **virtual int activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException)** [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller**
 (p. 531).

6.362.3.6 virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::tightUnmarshal(OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.362.3.7 virtual void activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller::tightUnmarshal(OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchNotificationMarshaller.h

6.363 ac-

tivemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller

Class Reference

6.363 ~~activemq::wireformat::openwire::marshal::v1::MessageDispatchNo~~¹⁸³³

Class Reference

Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p.1833).

#include <src/main/activemq/wireformat/openwire/marshal/v1/MessageDispatchNotificationMarshaller
diagram for activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller:

Public Member Functions

- **MessageDispatchNotificationMarshaller** ()
- virtual **~MessageDispatchNotificationMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.363.1 Detailed Description

Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p.1833). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.363.2 Constructor & Destructor Documentation

6.363.2.1 `activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::MessageDispatchNotificationMarshaller()` [inline]

6.363.2.2 `virtual activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::~MessageDispatchNotificationMarshaller()` [inline, virtual]

6.363.3 Member Function Documentation

6.363.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::createDataStructure()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.363.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.363.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::marshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.363 ac-

ativemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller

Class Reference

1835

Reimplemented from `ativemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.363.3.4 virtual void ac-

```
ativemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::looseUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (
    decaf::io::IOException ) [virtual]
```

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `ativemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.363.3.5 virtual int ac-

```
ativemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::tightUnmarshal(
    OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException
    ) [virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `ativemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.363.3.6 virtual void activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::tightUnmarshal(OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.363.3.7 virtual void activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller::tightUnmarshal(OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/MessageDispatchNotificationMarshaller.h

6.364 ac-

tivemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller

Class Reference

6.364 ~~activemq::wireformat::openwire::marshal::v3::MessageDispatchNo~~¹⁸³⁷

Class Reference

Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p.1837).

#include <src/main/activemq/wireformat/openwire/marshal/v3/MessageDispatchNotificationMarshaller
diagram for activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller:

Public Member Functions

- **MessageDispatchNotificationMarshaller** ()
- virtual **~MessageDispatchNotificationMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.364.1 Detailed Description

Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller** (p.1837). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.364.2 Constructor & Destructor Documentation

6.364.2.1 `activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::MessageDispatchNotificationMarshaller()` [inline]

6.364.2.2 `virtual activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::~MessageDispatchNotificationMarshaller()` [inline, virtual]

6.364.3 Member Function Documentation

6.364.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::createDataStructure()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.364.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.364.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::marshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

6.364 ac-
tivemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller
Class Reference **1839**
 Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller**
 (p. 515).

6.364.3.4 virtual void ac-
tivemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::looseU
(OpenWireFormat * *wireFormat*, commands::DataStructure
*** *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (**
decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller**
 (p. 516).

6.364.3.5 virtual int ac-
tivemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::tightM
(OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*,
utils::BooleanStream * *bs*) throw (decaf::io::IOException
) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller**
 (p. 517).

6.364.3.6 virtual void activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::tightUnmarshal(OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.364.3.7 virtual void activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller::tightUnmarshal(OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/MessageDispatchNotificationMarshaller.h

6.365 cms::MessageEOFException Class Reference

This exception must be thrown when an unexpected end of stream has been reached when a **StreamMessage** (p. 2476) or **BytesMessage** (p. 759) is being read.

#include <src/main/cms/MessageEOFException.h> Inheritance diagram for cms::MessageEOFException:

Public Member Functions

- **MessageEOFException** () throw ()
- **MessageEOFException** (const **MessageEOFException** &ex) throw ()
- **MessageEOFException** (const std::string &message, const std::exception *cause) throw ()
- **MessageEOFException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**MessageEOFException** () throw ()

6.365.1 Detailed Description

This exception must be thrown when an unexpected end of stream has been reached when a **StreamMessage** (p. 2476) or **BytesMessage** (p. 759) is being read.

Since:

1.3

6.365.2 Constructor & Destructor Documentation

- 6.365.2.1** cms::MessageEOFException::MessageEOFException () throw ()
- 6.365.2.2** cms::MessageEOFException::MessageEOFException (const MessageEOFException & *ex*) throw ()
- 6.365.2.3** cms::MessageEOFException::MessageEOFException (const std::string & *message*, const std::exception * *cause*) throw ()
- 6.365.2.4** cms::MessageEOFException::MessageEOFException (const std::string & *message*, const std::exception * *cause*, const std::vector< std::pair< std::string, int > > & *stackTrace*) throw ()
- 6.365.2.5** virtual cms::MessageEOFException::~~MessageEOFException () throw ()
[virtual]

The documentation for this class was generated from the following file:

- src/main/cms/MessageEOFException.h

6.366 cms::MessageFormatException Class Reference

This exception must be thrown when a CMS client attempts to use a data type not supported by a message or attempts to read data in a message as the wrong type.

#include <src/main/cms/MessageFormatException.h> Inheritance diagram for cms::MessageFormatException:

Public Member Functions

- **MessageFormatException** () throw ()
- **MessageFormatException** (const **MessageFormatException** &ex) throw ()
- **MessageFormatException** (const std::string &message, const std::exception *cause) throw ()
- **MessageFormatException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**MessageFormatException** () throw ()

6.366.1 Detailed Description

This exception must be thrown when a CMS client attempts to use a data type not supported by a message or attempts to read data in a message as the wrong type. It must also be thrown when equivalent type errors are made with message property values. For example, this exception must be thrown if **StreamMessage.readShort** (p. 2482) is used to read a boolean value.

Since:

1.3

6.366.2 Constructor & Destructor Documentation

- 6.366.2.1** cms::MessageFormatException::MessageFormatException () throw ()
- 6.366.2.2** cms::MessageFormatException::MessageFormatException (const MessageFormatException & ex) throw ()
- 6.366.2.3** cms::MessageFormatException::MessageFormatException (const std::string & message, const std::exception * cause) throw ()
- 6.366.2.4** cms::MessageFormatException::MessageFormatException (const std::string & message, const std::exception * cause, const std::vector< std::pair< std::string, int > > & stackTrace) throw ()
- 6.366.2.5** virtual cms::MessageFormatException::~MessageFormatException () throw () [virtual]

The documentation for this class was generated from the following file:

- src/main/cms/MessageFormatException.h

6.367 activemq::commands::MessageId Class Reference

#include <src/main/activemq/commands/MessageId.h> Inheritance diagram for activemq::commands::MessageId:

Public Types

- typedef **decaf::lang::PointerComparator**< MessageId > **COMPARATOR**

Public Member Functions

- **MessageId** ()
- **MessageId** (const **MessageId** &other)
- virtual **~MessageId** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **MessageId * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ProducerId** > & **getProducerId** () const
- virtual **Pointer**< **ProducerId** > & **getProducerId** ()
- virtual void **setProducerId** (const **Pointer**< **ProducerId** > &producerId)
- virtual long long **getProducerSequenceId** () const
- virtual void **setProducerSequenceId** (long long producerSequenceId)
- virtual long long **getBrokerSequenceId** () const
- virtual void **setBrokerSequenceId** (long long brokerSequenceId)
- virtual int **compareTo** (const **MessageId** &value) const
- virtual bool **equals** (const **MessageId** &value) const
- virtual bool **operator==** (const **MessageId** &value) const
- virtual bool **operator<** (const **MessageId** &value) const
- **MessageId** & **operator=** (const **MessageId** &other)

Static Public Attributes

- static const unsigned char **ID_MESSAGEID** = 110

Protected Attributes

- `Pointer< ProducerId > producerId`
- `long long producerSequenceId`
- `long long brokerSequenceId`

6.367.1 Member Typedef Documentation

6.367.1.1 `typedef decaf::lang::PointerComparator<MessageId>
activemq::commands::MessageId::COMPARATOR`

6.367.2 Constructor & Destructor Documentation

6.367.2.1 `activemq::commands::MessageId::MessageId ()`

6.367.2.2 `activemq::commands::MessageId::MessageId (const MessageId & other)`

6.367.2.3 `virtual activemq::commands::MessageId::~MessageId () [virtual]`

6.367.3 Member Function Documentation

6.367.3.1 `virtual MessageId* activemq::commands::MessageId::cloneDataStructure
(const) [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.367.3.2 `virtual int activemq::commands::MessageId::compareTo (const MessageId
& value) const [virtual]`

6.367.3.3 `virtual void activemq::commands::MessageId::copyDataStructure (const
DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.367.3.4 `virtual bool activemq::commands::MessageId::equals (const MessageId &
value) const [virtual]`

6.367.3.5 `virtual bool activemq::commands::MessageId::equals (const
DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are

the same.

Returns:

true if DataStructure's are Equal.

6.367.3.6 virtual long long activemq::commands::MessageId::getBrokerSequenceId
() const [virtual]

6.367.3.7 virtual unsigned char ac-
tivemq::commands::MessageId::getDataStructureType ()
const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.367.3.8 `virtual Pointer<ProducerId>& activemq::commands::MessageId::getProducerId ()`
[virtual]
- 6.367.3.9 `virtual const Pointer<ProducerId>& activemq::commands::MessageId::getProducerId () const`
[virtual]
- 6.367.3.10 `virtual long long activemq::commands::MessageId::getProducerSequenceId ()`
`const` [virtual]
- 6.367.3.11 `virtual bool activemq::commands::MessageId::operator< (const MessageId & value) const` [virtual]
- 6.367.3.12 `MessageId& activemq::commands::MessageId::operator= (const MessageId & other)`
- 6.367.3.13 `virtual bool activemq::commands::MessageId::operator== (const MessageId & value) const` [virtual]
- 6.367.3.14 `virtual void activemq::commands::MessageId::setBrokerSequenceId (long long brokerSequenceId)` [virtual]
- 6.367.3.15 `virtual void activemq::commands::MessageId::setProducerId (const Pointer< ProducerId > & producerId)` [virtual]
- 6.367.3.16 `virtual void activemq::commands::MessageId::setProducerSequenceId (long long producerSequenceId)` [virtual]
- 6.367.3.17 `virtual std::string activemq::commands::MessageId::toString () const`
[virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseDataStructure` (p.560).

6.367.4 Field Documentation

- 6.367.4.1 `long long activemq::commands::MessageId::brokerSequenceId`
[protected]
- 6.367.4.2 `const unsigned char activemq::commands::MessageId::ID_MESSAGEID`
`= 110` [static]
- 6.367.4.3 `Pointer<ProducerId> activemq::commands::MessageId::producerId`
[protected]
- 6.367.4.4 `long long activemq::commands::MessageId::producerSequenceId`
[protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/MessageId.h`

6.368 activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1848).

#include <src/main/activemq/wireformat/openwire/marshal/v1/MessageIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller:

Public Member Functions

- **MessageIdMarshaller** ()
- virtual **~MessageIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.368.1 Detailed Description

Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1848). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.368.2 Constructor & Destructor Documentation

6.368.2.1 `activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::MessageIdMarshaller()` [inline]

6.368.2.2 `virtual activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::~~MessageIdMarshaller()` [inline, virtual]

6.368.3 Member Function Documentation

6.368.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.368.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.368.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.368.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.368.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.368.3.6 virtual void activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.368.3.7 virtual void activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/MessageIdMarshaller.h

6.369 activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1852).

#include <src/main/activemq/wireformat/openwire/marshal/v3/MessageIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller:

Public Member Functions

- **MessageIdMarshaller** ()
- virtual **~MessageIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.369.1 Detailed Description

Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1852). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.369.2 Constructor & Destructor Documentation

6.369.2.1 `activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::MessageIdMarshaller()` [inline]

6.369.2.2 `virtual activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::~~MessageIdMarshaller()` [inline, virtual]

6.369.3 Member Function Documentation

6.369.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.369.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.369.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.369.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.369.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.369.3.6 virtual void activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.369.3.7 virtual void activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/MessageIdMarshaller.h

6.370 activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1856).

#include <src/main/activemq/wireformat/openwire/marshal/v2/MessageIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller:

Public Member Functions

- **MessageIdMarshaller** ()
- virtual **~MessageIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.370.1 Detailed Description

Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1856). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.370.2 Constructor & Destructor Documentation

6.370.2.1 `activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::MessageIdMarshaller()` [inline]

6.370.2.2 `virtual activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::~~MessageIdMarshaller()` [inline, virtual]

6.370.3 Member Function Documentation

6.370.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.370.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.370.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.370.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.370.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.370.3.6 virtual void activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.370.3.7 virtual void activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/MessageIdMarshaller.h

6.371 cms::MessageListener Class Reference

A `MessageListener` (p. 1860) object is used to receive asynchronously delivered messages.

```
#include <src/main/cms/MessageListener.h>
```

Public Member Functions

- virtual `~MessageListener ()`
- virtual void `onMessage (const Message *message)=0`

*Called asynchronously when a new message is received, the message reference can be to any of the **Message** (p. 1753) types.*

6.371.1 Detailed Description

A `MessageListener` (p. 1860) object is used to receive asynchronously delivered messages.

Since:

1.0

6.371.2 Constructor & Destructor Documentation

6.371.2.1 virtual `cms::MessageListener::~~MessageListener ()` [inline, virtual]

6.371.3 Member Function Documentation

6.371.3.1 virtual void `cms::MessageListener::onMessage (const Message * message)`
[pure virtual]

Called asynchronously when a new message is received, the message reference can be to any of the **Message** (p. 1753) types. a dynamic cast is used to find out what type of message this is. The lifetime of this object is only guaranteed to be for life of the `onMessage` function after this call-back returns the message may no longer exists. Users should copy the data or clone the message if they wish to retain information that was contained in this **Message** (p. 1753).

It is considered a programming error for this method to throw an exception.

Parameters:

message **Message** (p. 1753) object {const} pointer recipient does not own.

The documentation for this class was generated from the following file:

- `src/main/cms/MessageListener.h`

6.372 activemq::wireformat::openwire::marshal::v2::MessageMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1861).

#include <src/main/activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::MessageMarshaller:

Public Member Functions

- **MessageMarshaller** ()
- virtual **~MessageMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.372.1 Detailed Description

Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1861). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.372.2 Constructor & Destructor Documentation

6.372.2.1 `activemq::wireformat::openwire::marshal::v2::MessageMarshaller::MessageMarshaller()` [inline]

6.372.2.2 `virtual activemq::wireformat::openwire::marshal::v2::MessageMarshaller::~~MessageMarshaller()` [inline, virtual]

6.372.3 Member Function Documentation

6.372.3.1 `virtual void activemq::wireformat::openwire::marshal::v2::MessageMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller` (p. 160), `activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller` (p. 187), `activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller` (p. 276), `activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller` (p. 291), `activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller` (p. 322), `activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller` (p. 396), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller` (p. 462).

6.372.3.2 `virtual void activemq::wireformat::openwire::marshal::v2::MessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller` (p. 161), `activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller` (p. 188), `activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller` (p. 277), `activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller` (p. 292), `activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller` (p. 323), `activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller` (p. 397), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller` (p. 463).

```
6.372.3.3 virtual int ac-
          tivemq::wireformat::openwire::marshal::v2::MessageMarshaller::tightMarshal1
          (OpenWireFormat * wireFormat, commands::DataStructure *
          dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException
          ) [virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller` (p. 161), `activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller` (p. 188), `activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller` (p. 277), `activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller` (p. 292), `activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller` (p. 323), `activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller` (p. 397), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller` (p. 463).

6.372.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::MessageMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller** (p. 162), **activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller** (p. 189), **activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller** (p. 278), **activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller** (p. 293), **activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller** (p. 324), **activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller** (p. 398), and **activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller** (p. 464).

6.372.3.5 `virtual void activemq::wireformat::openwire::marshal::v2::MessageMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller` (p. 162), `activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller` (p. 189), `activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller` (p. 278), `activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller` (p. 293), `activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller` (p. 324), `activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller` (p. 398), and `activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller` (p. 464).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h`

6.373 activemq::wireformat::openwire::marshal::v3::MessageMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1866).

#include <src/main/activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::MessageMarshaller:

Public Member Functions

- **MessageMarshaller** ()
- virtual **~MessageMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.373.1 Detailed Description

Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1866). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.373.2 Constructor & Destructor Documentation

- 6.373.2.1** `activemq::wireformat::openwire::marshal::v3::MessageMarshaller::MessageMarshaller()` [inline]
- 6.373.2.2** `virtual activemq::wireformat::openwire::marshal::v3::MessageMarshaller::~~MessageMarshaller()` [inline, virtual]

6.373.3 Member Function Documentation

- 6.373.3.1** `virtual void activemq::wireformat::openwire::marshal::v3::MessageMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller` (p. 152), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller` (p. 179), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller` (p. 268), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller` (p. 283), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller` (p. 314), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller` (p. 388), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller` (p. 454).

- 6.373.3.2** `virtual void activemq::wireformat::openwire::marshal::v3::MessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller` (p. 153), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller` (p. 180), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller` (p. 269), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller` (p. 284), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller` (p. 315), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller` (p. 389), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller` (p. 455).

```
6.373.3.3 virtual int ac-
            tivemq::wireformat::openwire::marshal::v3::MessageMarshaller::tightMarshal1
            (OpenWireFormat * wireFormat, commands::DataStructure *
            dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException
            ) [virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller` (p. 153), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller` (p. 180), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller` (p. 269), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller` (p. 284), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller` (p. 315), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller` (p. 389), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller` (p. 455).

6.373.3.4 virtual void activemq::wireformat::openwire::marshal::v3::MessageMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller** (p. 154), **activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller** (p. 181), **activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller** (p. 270), **activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller** (p. 285), **activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller** (p. 316), **activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller** (p. 390), and **activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller** (p. 456).

6.373.3.5 virtual void activemq::wireformat::openwire::marshal::v3::MessageMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller` (p. 154), `activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller` (p. 181), `activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller` (p. 270), `activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller` (p. 285), `activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller` (p. 316), `activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller` (p. 390), and `activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller` (p. 456).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h`

6.374 activemq::wireformat::openwire::marshal::v1::MessageMarshaller Class Reference

Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1871).

#include <src/main/activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::MessageMarshaller:

Public Member Functions

- **MessageMarshaller** ()
- virtual **~MessageMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.374.1 Detailed Description

Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1871). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.374.2 Constructor & Destructor Documentation

6.374.2.1 `activemq::wireformat::openwire::marshal::v1::MessageMarshaller::MessageMarshaller()` [inline]

6.374.2.2 `virtual activemq::wireformat::openwire::marshal::v1::MessageMarshaller::~~MessageMarshaller()` [inline, virtual]

6.374.3 Member Function Documentation

6.374.3.1 `virtual void activemq::wireformat::openwire::marshal::v1::MessageMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 156), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 183), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 272), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 287), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 318), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 392), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 458).

6.374.3.2 `virtual void activemq::wireformat::openwire::marshal::v1::MessageMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 157), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 184), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 273), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 288), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 319), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 393), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 459).

```
6.374.3.3 virtual int ac-
            tivemq::wireformat::openwire::marshal::v1::MessageMarshaller::tightMarshal1
            (OpenWireFormat * wireFormat, commands::DataStructure *
            dataStructure, utils::BooleanStream * bs) throw ( decaf::io::IOException
            ) [virtual]
```

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 157), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 184), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 273), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 288), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 319), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 393), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 459).

6.374.3.4 virtual void activemq::wireformat::openwire::marshal::v1::MessageMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller** (p. 158), **activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller** (p. 185), **activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller** (p. 274), **activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller** (p. 289), **activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller** (p. 320), **activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller** (p. 394), and **activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller** (p. 460).

6.374.3.5 virtual void activemq::wireformat::openwire::marshal::v1::MessageMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller` (p. 158), `activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller` (p. 185), `activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller` (p. 274), `activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller` (p. 289), `activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller` (p. 320), `activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller` (p. 394), and `activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller` (p. 460).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h`

6.375 cms::MessageNotReadableException Class Reference

This exception must be thrown when a CMS client attempts to read a write-only message.

#include <src/main/cms/MessageNotReadableException.h> Inheritance diagram for cms::MessageNotReadableException:

Public Member Functions

- **MessageNotReadableException** () throw ()
- **MessageNotReadableException** (const **MessageNotReadableException** &ex) throw ()
- **MessageNotReadableException** (const std::string &message, const std::exception *cause) throw ()
- **MessageNotReadableException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**MessageNotReadableException** () throw ()

6.375.1 Detailed Description

This exception must be thrown when a CMS client attempts to read a write-only message.

Since:

1.3

6.375.2 Constructor & Destructor Documentation

- 6.375.2.1** cms::MessageNotReadableException::MessageNotReadableException () throw ()
- 6.375.2.2** cms::MessageNotReadableException::MessageNotReadableException (const **MessageNotReadableException** & *ex*) throw ()
- 6.375.2.3** cms::MessageNotReadableException::MessageNotReadableException (const std::string & *message*, const std::exception * *cause*) throw ()
- 6.375.2.4** cms::MessageNotReadableException::MessageNotReadableException (const std::string & *message*, const std::exception * *cause*, const std::vector< std::pair< std::string, int > > & *stackTrace*) throw ()
- 6.375.2.5** virtual
cms::MessageNotReadableException::~~MessageNotReadableException () throw () [virtual]

The documentation for this class was generated from the following file:

- src/main/cms/MessageNotReadableException.h

6.376 cms::MessageNotWriteableException Class Reference

This exception must be thrown when a CMS client attempts to write to a read-only message.

#include <src/main/cms/MessageNotWriteableException.h> Inheritance diagram for cms::MessageNotWriteableException:

Public Member Functions

- **MessageNotWriteableException** () throw ()
- **MessageNotWriteableException** (const **MessageNotWriteableException** &ex) throw ()
- **MessageNotWriteableException** (const std::string &message, const std::exception *cause) throw ()
- **MessageNotWriteableException** (const std::string &message, const std::exception *cause, const std::vector< std::pair< std::string, int > > &stackTrace) throw ()
- virtual ~**MessageNotWriteableException** () throw ()

6.376.1 Detailed Description

This exception must be thrown when a CMS client attempts to write to a read-only message.

Since:

1.3

6.376.2 Constructor & Destructor Documentation

- 6.376.2.1** cms::MessageNotWriteableException::MessageNotWriteableException () throw ()
- 6.376.2.2** cms::MessageNotWriteableException::MessageNotWriteableException (const **MessageNotWriteableException** & *ex*) throw ()
- 6.376.2.3** cms::MessageNotWriteableException::MessageNotWriteableException (const std::string & *message*, const std::exception * *cause*) throw ()
- 6.376.2.4** cms::MessageNotWriteableException::MessageNotWriteableException (const std::string & *message*, const std::exception * *cause*, const std::vector< std::pair< std::string, int > > & *stackTrace*) throw ()
- 6.376.2.5** virtual
cms::MessageNotWriteableException::~~MessageNotWriteableException () throw () [virtual]

The documentation for this class was generated from the following file:

- src/main/cms/MessageNotWriteableException.h

6.377 cms::MessageProducer Class Reference

A client uses a `MessageProducer` (p. 1878) object to send messages to a **Destination** (p. 1190).

#include <src/main/cms/MessageProducer.h> Inheritance diagram for cms::MessageProducer:

Public Member Functions

- virtual `~MessageProducer ()`
- virtual void `send (Message *message)=0` throw (CMSEException)
Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.
- virtual void `send (Message *message, int deliveryMode, int priority, long long timeToLive)=0` throw (CMSEException)
Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.
- virtual void `send (const Destination *destination, Message *message)=0` throw (CMSEException)
Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.
- virtual void `send (const Destination *destination, Message *message, int deliveryMode, int priority, long long timeToLive)=0` throw (CMSEException)
Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.
- virtual void `setDeliveryMode (int mode)=0` throw (CMSEException)
Sets the delivery mode for this Producer.
- virtual int `getDeliveryMode ()` const =0 throw (CMSEException)
Gets the delivery mode for this Producer.
- virtual void `setDisableMessageID (bool value)=0` throw (CMSEException)
Sets if Message (p. 1753) Ids are disabled for this Producer.
- virtual bool `getDisableMessageID ()` const =0 throw (CMSEException)
Gets if Message (p. 1753) Ids are disabled for this Producer.
- virtual void `setDisableMessageTimeStamp (bool value)=0` throw (CMSEException)
Sets if Message (p. 1753) Time Stamps are disabled for this Producer.
- virtual bool `getDisableMessageTimeStamp ()` const =0 throw (CMSEException)
Gets if Message (p. 1753) Time Stamps are disabled for this Producer.
- virtual void `setPriority (int priority)=0` throw (CMSEException)
Sets the Priority that this Producers sends messages at.

- virtual int **getPriority** () const =0 throw (CMSEException)
Gets the Priority level that this producer sends messages at.
- virtual void **setTimeToLive** (long long time)=0 throw (CMSEException)
Sets the Time to Live that this Producers sends messages with.
- virtual long long **getTimeToLive** () const =0 throw (CMSEException)
Gets the Time to Live that this producer sends messages with.

6.377.1 Detailed Description

A client uses a **MessageProducer** (p. 1878) object to send messages to a **Destination** (p. 1190). A **MessageProducer** (p. 1878) object is created by passing a **Destination** (p. 1190) object to a message-producer creation method supplied by a session.

A client also has the option of creating a message producer without supplying a destination. In this case, a **Destination** (p. 1190) must be provided with every send operation. A typical use for this kind of message producer is to send replies to requests using the request's **CMSReplyTo** destination.

A client can specify a default delivery mode, priority, and time to live for messages sent by a message producer. It can also specify the delivery mode, priority, and time to live for an individual message.

A client can specify a time-to-live value in milliseconds for each message it sends. This value defines a message expiration time that is the sum of the message's time-to-live and the GMT when it is sent (for transacted sends, this is the time the client sends the message, not the time the transaction is committed).

Since:

1.0

6.377.2 Constructor & Destructor Documentation

6.377.2.1 virtual cms::MessageProducer::~~MessageProducer () [inline, virtual]

6.377.3 Member Function Documentation

6.377.3.1 virtual int cms::MessageProducer::getDeliveryMode () const throw (CMSEException) [pure virtual]

Gets the delivery mode for this Producer.

Returns:

The **DeliveryMode** (p. 1188)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::cmsutil::CachedProducer** (p. 778), and **activemq::core::ActiveMQProducer** (p. 327).

6.377.3.2 `virtual bool cms::MessageProducer::getDisableMessageID () const throw (CMSEException) [pure virtual]`

Gets if **Message** (p. 1753) Ids are disabled for this Producer.

Returns:

boolean indicating enable / disable (true / false)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 779), and `activemq::core::ActiveMQProducer` (p. 327).

6.377.3.3 `virtual bool cms::MessageProducer::getDisableMessageTimeStamp () const throw (CMSEException) [pure virtual]`

Gets if **Message** (p. 1753) Time Stamps are disabled for this Producer.

Returns:

boolean indicating enable / disable (true / false)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 779), and `activemq::core::ActiveMQProducer` (p. 327).

6.377.3.4 `virtual int cms::MessageProducer::getPriority () const throw (CMSEException) [pure virtual]`

Gets the Priority level that this producer sends messages at.

Returns:

int based priority level

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 779), and `activemq::core::ActiveMQProducer` (p. 328).

6.377.3.5 `virtual long long cms::MessageProducer::getTimeToLive () const throw (CMSEException) [pure virtual]`

Gets the Time to Live that this producer sends messages with.

Returns:

Time to live value in milliseconds

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 779), and `activemq::core::ActiveMQProducer` (p. 328).

6.377.3.6 `virtual void cms::MessageProducer::send (const Destination * destination, Message * message, int deliveryMode, int priority, long timeToLive) throw (CMSEException)` [pure virtual]

Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it.

Parameters:

destination The destination on which to send the message

message The message to be sent.

deliveryMode The delivery mode to be used.

priority The priority for this message.

timeToLive The time to live value for this message in milliseconds.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 780), and `activemq::core::ActiveMQProducer` (p. 329).

6.377.3.7 `virtual void cms::MessageProducer::send (const Destination * destination, Message * message) throw (CMSEException)` [pure virtual]

Sends the message to the designated destination, but does not take ownership of the message, caller must still destroy it. Uses default values for deliveryMode, priority, and time to live.

Parameters:

destination The destination on which to send the message

message the message to be sent.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 780), and `activemq::core::ActiveMQProducer` (p. 329).

6.377.3.8 `virtual void cms::MessageProducer::send (Message * message,
int deliveryMode, int priority, long long timeToLive) throw (`
`CMSEException)` [pure virtual]

Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it.

Parameters:

message The message to be sent.

deliveryMode The delivery mode to be used.

priority The priority for this message.

timeToLive The time to live value for this message in milliseconds.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 780), and `activemq::core::ActiveMQProducer` (p. 330).

6.377.3.9 `virtual void cms::MessageProducer::send (Message * message) throw (`
`CMSEException)` [pure virtual]

Sends the message to the default producer destination, but does not take ownership of the message, caller must still destroy it. Uses default values for deliveryMode, priority, and time to live.

Parameters:

message The message to be sent.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 781), and `activemq::core::ActiveMQProducer` (p. 330).

6.377.3.10 `virtual void cms::MessageProducer::setDeliveryMode (int mode) throw`
`(CMSEException)` [pure virtual]

Sets the delivery mode for this Producer.

Parameters:

mode The **DeliveryMode** (p. 1188)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in `activemq::cmsutil::CachedProducer` (p. 781), and `activemq::core::ActiveMQProducer` (p. 330).

6.377.3.11 `virtual void cms::MessageProducer::setDisableMessageID (bool value)
throw (CMSEException)` [pure virtual]

Sets if **Message** (p. 1753) Ids are disabled for this Producer.

Parameters:

value boolean indicating enable / disable (true / false)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::cmsutil::CachedProducer** (p. 781), and **activemq::core::ActiveMQProducer** (p. 330).

6.377.3.12 `virtual void cms::MessageProducer::setDisableMessageTimeStamp
(bool value) throw (CMSEException)` [pure virtual]

Sets if **Message** (p. 1753) Time Stamps are disabled for this Producer.

Parameters:

value - boolean indicating enable / disable (true / false)

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::cmsutil::CachedProducer** (p. 782), and **activemq::core::ActiveMQProducer** (p. 331).

6.377.3.13 `virtual void cms::MessageProducer::setPriority (int priority) throw (CMSEException)` [pure virtual]

Sets the Priority that this Producers sends messages at.

Parameters:

priority int value for Priority level

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::cmsutil::CachedProducer** (p. 782), and **activemq::core::ActiveMQProducer** (p. 331).

6.377.3.14 `virtual void cms::MessageProducer::setTimeToLive (long long time)
throw (CMSEException)` [pure virtual]

Sets the Time to Live that this Producers sends messages with. This value will be used if the time to live is not specified via the send method.

Parameters:

time default time to live value in milliseconds

Exceptions:

CMSException (p. 850) - if an internal error occurs.

Implemented in **activemq::cmsutil::CachedProducer** (p. 782), and **activemq::core::ActiveMQProducer** (p. 331).

The documentation for this class was generated from the following file:

- `src/main/cms/MessageProducer.h`

6.378 activemq::wireformat::openwire::utils::MessagePropertyInterceptor Class Reference

Used the base ActiveMQMessage class to intercept calls to get and set properties in order to capture the calls that use the reserved JMS properties and get and set them in the OpenWire Message properties.

```
#include <src/main/activemq/wireformat/openwire/utils/MessagePropertyInterceptor.h>
```

Public Member Functions

- **MessagePropertyInterceptor** (commands::Message *message, util::PrimitiveMap *properties) throw (decaf::lang::exceptions::NullPointerException)

Constructor, accepts the Message that will be used to store JMS reserved property values, and the PrimitiveMap to get and set the rest to.

- virtual ~**MessagePropertyInterceptor** ()
- virtual bool **getBooleanProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a boolean property.

- virtual unsigned char **getByteProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a byte property.

- virtual double **getDoubleProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a double property.

- virtual float **getFloatProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a float property.

- virtual int **getIntProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a int property.

- virtual long long **getLongProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a long property.

- virtual short **getShortProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a short property.

- virtual std::string **getStringProperty** (const std::string &name) const throw (exceptions::ActiveMQException)

Gets a string property.

- virtual void **setBooleanProperty** (const std::string &name, bool value) throw (exceptions::ActiveMQException)

Sets a boolean property.

- virtual void **setByteProperty** (const std::string &name, unsigned char value) throw (exceptions::ActiveMQException)

Sets a byte property.

- virtual void **setDoubleProperty** (const std::string &name, double value) throw (exceptions::ActiveMQException)

Sets a double property.

- virtual void **setFloatProperty** (const std::string &name, float value) throw (exceptions::ActiveMQException)

Sets a float property.

- virtual void **setIntProperty** (const std::string &name, int value) throw (exceptions::ActiveMQException)

Sets a int property.

- virtual void **setLongProperty** (const std::string &name, long long value) throw (exceptions::ActiveMQException)

Sets a long property.

- virtual void **setShortProperty** (const std::string &name, short value) throw (exceptions::ActiveMQException)

Sets a short property.

- virtual void **setStringProperty** (const std::string &name, const std::string &value) throw (exceptions::ActiveMQException)

Sets a string property.

6.378.1 Detailed Description

Used the base ActiveMQMessage class to intercept calls to get and set properties in order to capture the calls that use the reserved JMS properties and get and set them in the OpenWire Message properties. Currently the only properties that are intercepted and handled are:

Name		Conversion Supported	-----	JMSXDeliveryCount	
Int, Long, String		JMSXGroupID		String	JMSXGroupSeq
		Int, Long, String			

6.378.2 Constructor & Destructor Documentation

6.378.2.1 activemq::wireformat::openwire::utils::MessagePropertyInterceptor::MessagePropertyInterceptor (commands::Message * *message*, util::PrimitiveMap * *properties*) throw (decaf::lang::exceptions::NullPointerException)

Constructor, accepts the Message that will be used to store JMS reserved property values, and the PrimitiveMap to get and set the rest to.

Parameters:

message - The Message to store reserved property data in

properties - The PrimitiveMap to store the rest of the properties in.

Exceptions:

NullPointerException if either param is NULL

6.378.2.2 virtual
activemq::wireformat::openwire::utils::MessagePropertyInterceptor::~~MessagePropertyInt
() [virtual]

6.378.3 Member Function Documentation

6.378.3.1 virtual bool ac-
tivismq::wireformat::openwire::utils::MessagePropertyInterceptor::getBooleanProperty
(const std::string & *name*) const throw (exceptions::ActiveMQException
) [virtual]

Gets a boolean property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException if the property does not exist.

6.378.3.2 virtual unsigned char ac-
tivismq::wireformat::openwire::utils::MessagePropertyInterceptor::getBytesProperty
(const std::string & *name*) const throw (exceptions::ActiveMQException
) [virtual]

Gets a byte property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException if the property does not exist.

6.378.3.3 `virtual double activemq::wireformat::openwire::utils::MessagePropertyInterceptor::getDoubleProperty(const std::string & name) const throw (exceptions::ActiveMQException) [virtual]`

Gets a double property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException if the property does not exist.

6.378.3.4 `virtual float activemq::wireformat::openwire::utils::MessagePropertyInterceptor::getFloatProperty(const std::string & name) const throw (exceptions::ActiveMQException) [virtual]`

Gets a float property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException if the property does not exist.

6.378.3.5 `virtual int activemq::wireformat::openwire::utils::MessagePropertyInterceptor::getIntProperty(const std::string & name) const throw (exceptions::ActiveMQException) [virtual]`

Gets a int property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSEException if the property does not exist.

6.378.3.6 virtual long long activemq::wireformat::openwire::utils::MessagePropertyInterceptor::getLongProperty (const std::string & *name*) const throw (exceptions::ActiveMQException) [virtual]

Gets a long property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.378.3.7 virtual short activemq::wireformat::openwire::utils::MessagePropertyInterceptor::getShortProperty (const std::string & *name*) const throw (exceptions::ActiveMQException) [virtual]

Gets a short property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.378.3.8 virtual std::string activemq::wireformat::openwire::utils::MessagePropertyInterceptor::getStringProperty (const std::string & *name*) const throw (exceptions::ActiveMQException) [virtual]

Gets a string property.

Parameters:

name The name of the property to retrieve.

Returns:

The value for the named property.

Exceptions:

CMSException if the property does not exist.

6.378.3.9 virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setBooleanProperty (const std::string & *name*, bool *value*) throw (exceptions::ActiveMQException) [virtual]

Sets a boolean property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.378.3.10 virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setByteProperty (const std::string & *name*, unsigned char *value*) throw (exceptions::ActiveMQException) [virtual]

Sets a byte property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.378.3.11 virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setDoubleProperty (const std::string & *name*, double *value*) throw (exceptions::ActiveMQException) [virtual]

Sets a double property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.378.3.12 virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setFloatProperty (const std::string & *name*, float *value*) throw (exceptions::ActiveMQException) [virtual]

Sets a float property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.378.3.13 virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setIntProperty (const std::string & *name*, int *value*) throw (exceptions::ActiveMQException) [virtual]

Sets a int property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.378.3.14 virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setLongProperty (const std::string & *name*, long long *value*) throw (exceptions::ActiveMQException) [virtual]

Sets a long property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.378.3.15 `virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setShortProperty (const std::string & name, short value) throw (exceptions::ActiveMQException) [virtual]`

Sets a short property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

6.378.3.16 `virtual void activemq::wireformat::openwire::utils::MessagePropertyInterceptor::setStringProperty (const std::string & name, const std::string & value) throw (exceptions::ActiveMQException) [virtual]`

Sets a string property.

Parameters:

name The name of the property to retrieve.

value The value for the named property.

Exceptions:

CMSException

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/utils/MessagePropertyInterceptor.h`

6.379 activemq::commands::MessagePull Class Reference

#include <src/main/activemq/commands/MessagePull.h> Inheritance diagram for activemq::commands::MessagePull:

Public Member Functions

- **MessagePull** ()
- virtual **~MessagePull** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **MessagePull * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConsumerId** > & **getConsumerId** () const
- virtual **Pointer**< **ConsumerId** > & **getConsumerId** ()
- virtual void **setConsumerId** (const **Pointer**< **ConsumerId** > &consumerId)
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual long long **getTimeout** () const
- virtual void **setTimeout** (long long timeout)
- virtual const std::string & **getCorrelationId** () const
- virtual std::string & **getCorrelationId** ()
- virtual void **setCorrelationId** (const std::string &correlationId)
- virtual const **Pointer**< **MessageId** > & **getMessageId** () const
- virtual **Pointer**< **MessageId** > & **getMessageId** ()
- virtual void **setMessageId** (const **Pointer**< **MessageId** > &messageId)
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_MESSAGEPULL** = 20

Protected Member Functions

- `MessagePull (const MessagePull &)`
- `MessagePull & operator= (const MessagePull &)`

Protected Attributes

- `Pointer< ConsumerId > consumerId`
- `Pointer< ActiveMQDestination > destination`
- `long long timeout`
- `std::string correlationId`
- `Pointer< MessageId > messageId`

6.379.1 Constructor & Destructor Documentation

6.379.1.1 `activemq::commands::MessagePull::MessagePull (const MessagePull &)`
[inline, protected]

6.379.1.2 `activemq::commands::MessagePull::MessagePull ()`

6.379.1.3 `virtual activemq::commands::MessagePull::~~MessagePull ()` [virtual]

6.379.2 Member Function Documentation

6.379.2.1 `virtual MessagePull* activemq::commands::MessagePull::cloneDataStructure ()`
`const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.379.2.2 `virtual void activemq::commands::MessagePull::copyDataStructure (const DataStructure * src)` [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.379.2.3 virtual bool activemq::commands::MessagePull::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.379.2.4 virtual Pointer<ConsumerId>& activemq::commands::MessagePull::getConsumerId () [virtual]**6.379.2.5 virtual const Pointer<ConsumerId>& activemq::commands::MessagePull::getConsumerId () const [virtual]****6.379.2.6 virtual std::string& activemq::commands::MessagePull::getCorrelationId () [virtual]****6.379.2.7 virtual const std::string& activemq::commands::MessagePull::getCorrelationId () const [virtual]****6.379.2.8 virtual unsigned char activemq::commands::MessagePull::getDataStructureType () const [virtual]**

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.379.2.9 `virtual Pointer<ActiveMQDestination>& activemq::commands::MessagePull::getDestination ()`
[virtual]
- 6.379.2.10 `virtual const Pointer<ActiveMQDestination>& activemq::commands::MessagePull::getDestination () const` [virtual]
- 6.379.2.11 `virtual Pointer<MessageId>& activemq::commands::MessagePull::getMessageId ()`
[virtual]
- 6.379.2.12 `virtual const Pointer<MessageId>& activemq::commands::MessagePull::getMessageId () const`
[virtual]
- 6.379.2.13 `virtual long long activemq::commands::MessagePull::getTimeout ()`
const [virtual]
- 6.379.2.14 `MessagePull& activemq::commands::MessagePull::operator= (const MessagePull &)` [inline, protected]
- 6.379.2.15 `virtual void activemq::commands::MessagePull::setConsumerId (const Pointer< ConsumerId > & consumerId)` [virtual]
- 6.379.2.16 `virtual void activemq::commands::MessagePull::setCorrelationId (const std::string & correlationId)` [virtual]
- 6.379.2.17 `virtual void activemq::commands::MessagePull::setDestination (const Pointer< ActiveMQDestination > & destination)` [virtual]
- 6.379.2.18 `virtual void activemq::commands::MessagePull::setMessageId (const Pointer< MessageId > & messageId)` [virtual]
- 6.379.2.19 `virtual void activemq::commands::MessagePull::setTimeout (long long timeout)` [virtual]
- 6.379.2.20 `virtual std::string activemq::commands::MessagePull::toString () const`
[virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p.512).

- 6.379.2.21 `virtual Pointer<Command> activemq::commands::MessagePull::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the

visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.379.3 Field Documentation

6.379.3.1 `Pointer<ConsumerId> activemq::commands::MessagePull::consumerId` [protected]

6.379.3.2 `std::string activemq::commands::MessagePull::correlationId` [protected]

6.379.3.3 `Pointer<ActiveMQDestination> activemq::commands::MessagePull::destination` [protected]

6.379.3.4 `const unsigned char activemq::commands::MessagePull::ID _-MESSAGEPULL = 20` [static]

6.379.3.5 `Pointer<MessageId> activemq::commands::MessagePull::messageId` [protected]

6.379.3.6 `long long activemq::commands::MessagePull::timeout` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/MessagePull.h`

6.380 activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller Class Reference

Marshaling code for Open Wire Format for **MessagePullMarshaller** (p.1898).

#include <src/main/activemq/wireformat/openwire/marshal/v2/MessagePullMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller:

Public Member Functions

- **MessagePullMarshaller** ()
- virtual **~MessagePullMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.380.1 Detailed Description

Marshaling code for Open Wire Format for **MessagePullMarshaller** (p.1898). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.380.2 Constructor & Destructor Documentation

6.380.2.1 `activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::MessagePullMarshaller()` [inline]

6.380.2.2 `virtual activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::~~MessagePullMarshaller()` [inline, virtual]

6.380.3 Member Function Documentation

6.380.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.380.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.380.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.380.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.380.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.380.3.6 virtual void activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.380.3.7 virtual void activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/MessagePullMarshaller.h

6.381 activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller Class Reference

Marshaling code for Open Wire Format for **MessagePullMarshaller** (p.1902).

#include <src/main/activemq/wireformat/openwire/marshal/v3/MessagePullMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller:

Public Member Functions

- **MessagePullMarshaller** ()
- virtual **~MessagePullMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.381.1 Detailed Description

Marshaling code for Open Wire Format for **MessagePullMarshaller** (p.1902). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.381.2 Constructor & Destructor Documentation

6.381.2.1 `activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::MessagePullMarshaller()` [inline]

6.381.2.2 `virtual activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::~~MessagePullMarshaller()` [inline, virtual]

6.381.3 Member Function Documentation

6.381.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.381.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.381.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.381.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.381.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.381.3.6 virtual void activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.381.3.7 virtual void activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/MessagePullMarshaller.h

6.382 activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller Class Reference

Marshaling code for Open Wire Format for **MessagePullMarshaller** (p.1906).

#include <src/main/activemq/wireformat/openwire/marshal/v1/MessagePullMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller:

Public Member Functions

- **MessagePullMarshaller** ()
- virtual **~MessagePullMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.382.1 Detailed Description

Marshaling code for Open Wire Format for **MessagePullMarshaller** (p.1906). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.382.2 Constructor & Destructor Documentation

6.382.2.1 `activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::MessagePullMarshaller()` [inline]

6.382.2.2 `virtual activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::~~MessagePullMarshaller()` [inline, virtual]

6.382.3 Member Function Documentation

6.382.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.382.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.382.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.382.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.382.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.382.3.6 virtual void activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.382.3.7 virtual void activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/MessagePullMarshaller.h

6.383 activemq::transport::mock::MockTransport Class Reference

The **MockTransport** (p. 1910) defines a base level **Transport** (p. 2608) class that is intended to be used in place of an a regular protocol **Transport** (p. 2608) such as TCP.

#include <src/main/activemq/transport/mock/MockTransport.h> Inheritance diagram for activemq::transport::mock::MockTransport:

Public Member Functions

- **MockTransport** (const **Pointer**< **wireformat::WireFormat** > &wireFormat, const **Pointer**< **ResponseBuilder** > &responseBuilder)
- virtual ~**MockTransport** ()
- void **setResponseBuilder** (const **Pointer**< **ResponseBuilder** > &responseBuilder)
*Sets the **ResponseBuilder** (p. 2235) that this class uses to create Responses to Commands sent.*
- virtual void **oneway** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends a one-way command.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given command to the broker and then waits for the response.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given command to the broker and then waits for the response.
- virtual void **setOutgoingListener** (**TransportListener** *listener)
*Sets a Listener that gets notified for every command that would have been sent by this **transport** (p. 67) to the Broker, this allows a client to verify that its messages are making it to the wire.*
- virtual void **setWireFormat** (const **Pointer**< **wireformat::WireFormat** > &wireFormat AMQCPP_UNUSED)
Sets the WireFormat instance to use.
- virtual void **setTransportListener** (**TransportListener** *listener)
*Sets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).*
- virtual **TransportListener** * **getTransportListener** () const
*Gets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).*
- virtual void **fireCommand** (const **Pointer**< **Command** > &command)
*Fires a Command back through this **transport** (p. 67) to its registered CommandListener if there is one.*
- virtual void **fireException** (const **exceptions::ActiveMQException** &ex)

*Fires a **Exception** back through this **transport** (p. 67) to its registered **ExceptionListener** if there is one.*

- virtual void **start** () throw (cms::CMSException)

Starts the service.

- virtual void **close** () throw (cms::CMSException)

Closes this object and deallocates the appropriate resources.

- virtual **Transport** * **narrow** (const std::type_info &typeId)

*Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.*

- virtual bool **isFaultTolerant** () const

*Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.*

- virtual bool **isConnected** () const

*Is the **Transport** (p. 2608) Connected to its Broker.*

- virtual bool **isClosed** () const

*Has the **Transport** (p. 2608) been shutdown and no longer usable.*

- virtual std::string **getRemoteAddress** () const

- virtual void **reconnect** (const decaf::net::URI &uri AMQCPP_UNUSED) throw (decaf::io::IOException)

reconnect to another location

- bool **isFailOnSendMessage** () const

- void **setFailOnSendMessage** (bool value)

- int **getNumSentMessageBeforeFail** () const

- void **setNumSentMessageBeforeFail** (int value)

- int **getNumSentMessages** () const

- void **setNumSentMessages** (int value)

- bool **isFailOnReceiveMessage** () const

- void **setFailOnReceiveMessage** (bool value)

- int **getNumReceivedMessageBeforeFail** () const

- void **setNumReceivedMessageBeforeFail** (int value)

- int **getNumReceivedMessages** () const

- void **setNumReceivedMessages** (int value)

Static Public Member Functions

- static **MockTransport** * **getInstance** ()

6.383.1 Detailed Description

The **MockTransport** (p. 1910) defines a base level **Transport** (p. 2608) class that is intended to be used in place of an a regular protocol **Transport** (p. 2608) such as TCP. This **Transport** (p. 2608) assumes that it is the base **Transport** (p. 2608) in the Transports stack, and destroys any Transports that are passed to it in its constructor.

This **Transport** (p. 2608) defines an Interface **ResponseBuilder** (p. 2235) which must be implemented by any protocol for which the **Transport** (p. 2608) is used to Emulate. The **Transport** (p. 2608) hands off all outbound **commands** (p. 59) to the **ResponseBuilder** (p. 2235) for processing, it is up to the builder to create appropriate responses and schedule any asynchronous messages that might result from a message sent to the Broker.

6.383.2 Constructor & Destructor Documentation

6.383.2.1 `activemq::transport::mock::MockTransport::MockTransport (const Pointer< wireformat::WireFormat > & wireFormat, const Pointer< ResponseBuilder > & responseBuilder)`

6.383.2.2 `virtual activemq::transport::mock::MockTransport::~MockTransport () [inline, virtual]`

6.383.3 Member Function Documentation

6.383.3.1 `virtual void activemq::transport::mock::MockTransport::close () throw (cms::CMSException) [inline, virtual]`

Closes this object and deallocates the appropriate resources. The object is generally no longer usable after calling close.

Exceptions:

CMSException - If an error occurs while the resource is being closed.

Implements **cms::Closeable** (p. 838).

6.383.3.2 `virtual void activemq::transport::mock::MockTransport::fireCommand (const Pointer< Command > & command) [inline, virtual]`

Fires a Command back through this **transport** (p. 67) to its registered CommandListener if there is one.

Parameters:

command - Command to send to the Listener.

6.383.3.3 `virtual void activemq::transport::mock::MockTransport::fireException (const exceptions::ActiveMQException & ex) [inline, virtual]`

Fires a Exception back through this **transport** (p. 67) to its registered ExceptionListener if there is one.

Parameters:

ex The Exception that will be passed on the the **Transport** (p. 2608) listener.

- 6.383.3.4 static MockTransport* activemq::transport::mock::MockTransport::getInstance ()
[inline, static]
- 6.383.3.5 int activemq::transport::mock::MockTransport::getNumReceivedMessageBeforeFail () const [inline]
- 6.383.3.6 int activemq::transport::mock::MockTransport::getNumReceivedMessages () const [inline]
- 6.383.3.7 int activemq::transport::mock::MockTransport::getNumSentMessageBeforeFail () const [inline]
- 6.383.3.8 int activemq::transport::mock::MockTransport::getNumSentMessages () const [inline]
- 6.383.3.9 virtual std::string activemq::transport::mock::MockTransport::getRemoteAddress () const
[inline, virtual]

Returns:

the remote address for this connection

Implements **activemq::transport::Transport** (p. 2609).

- 6.383.3.10 virtual TransportListener* activemq::transport::mock::MockTransport::getTransportListener () const
[inline, virtual]

Gets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).

Returns:

The listener of **transport** (p. 67) events.

Implements **activemq::transport::Transport** (p. 2609).

- 6.383.3.11 virtual bool activemq::transport::mock::MockTransport::isClosed () const [inline, virtual]

Has the **Transport** (p. 2608) been shutdown and no longer usable.

Returns:

true if the **Transport** (p. 2608)

Implements **activemq::transport::Transport** (p. 2609).

6.383.3.12 `virtual bool activemq::transport::mock::MockTransport::isConnected () const [inline, virtual]`

Is the **Transport** (p. 2608) Connected to its Broker.

Returns:

true if a connection has been made.

Implements **activemq::transport::Transport** (p. 2610).

6.383.3.13 `bool activemq::transport::mock::MockTransport::isFailOnReceiveMessage () const [inline]`

6.383.3.14 `bool activemq::transport::mock::MockTransport::isFailOnSendMessage () const [inline]`

6.383.3.15 `virtual bool activemq::transport::mock::MockTransport::isFaultTolerant () const [inline, virtual]`

Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.

Returns:

true if the **Transport** (p. 2608) is fault tolerant.

Implements **activemq::transport::Transport** (p. 2610).

6.383.3.16 `virtual Transport* activemq::transport::mock::MockTransport::narrow (const std::type_info & typeId) [inline, virtual]`

Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.

Parameters:

typeId - The type_info of the Object we are searching for.

Returns:

the requested Object. or NULL if its not in this chain.

Implements **activemq::transport::Transport** (p. 2610).

6.383.3.17 `virtual void activemq::transport::mock::MockTransport::oneway (const Pointer< Command > & command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends a one-way command. Does not wait for any response from the broker.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2610).

6.383.3.18 `virtual void activemq::transport::mock::MockTransport::reconnect
(const decaf::net::URI &uri AMQCPP_UNUSED) throw (
decaf::io::IOException) [inline, virtual]`

reconnect to another location

Parameters:

uri

Exceptions:

IOException on failure of if not supported

6.383.3.19 `virtual Pointer<Response> ac-
tivemq::transport::mock::MockTransport::request
(const Pointer< Command > & command, un-
signed int timeout) throw (decaf::io::IOException,
decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends the given command to the broker and then waits for the response.

Parameters:

command - The command to be sent.

timeout - The time to wait for this response.

Returns:

the response from the broker.

Exceptions:

IOException if an exception occurs during the read of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2611).

6.383.3.20 `virtual Pointer<Response> ac-
tivemq::transport::mock::MockTransport::request (const
Pointer< Command > & command) throw (decaf::io::IOException,
decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends the given command to the broker and then waits for the response.

Parameters:

command the command to be sent.

Returns:

the response from the broker.

Exceptions:

IOException if an exception occurs during the read of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2612).

- 6.383.3.21 **void** **activemq::transport::mock::MockTransport::setFailOnReceiveMessage**
 (**bool** *value*) [inline]
- 6.383.3.22 **void** **activemq::transport::mock::MockTransport::setFailOnSendMessage**
 (**bool** *value*) [inline]
- 6.383.3.23 **void** **activemq::transport::mock::MockTransport::setNumReceivedMessageBeforeFail**
 (**int** *value*) [inline]
- 6.383.3.24 **void** **activemq::transport::mock::MockTransport::setNumReceivedMessages**
 (**int** *value*) [inline]
- 6.383.3.25 **void** **activemq::transport::mock::MockTransport::setNumSentMessageBeforeFail**
 (**int** *value*) [inline]
- 6.383.3.26 **void** **activemq::transport::mock::MockTransport::setNumSentMessages**
 (**int** *value*) [inline]
- 6.383.3.27 **virtual void** **activemq::transport::mock::MockTransport::setOutgoingListener**
 (**TransportListener** * *listener*) [inline, virtual]

Sets a Listener that gets notified for every command that would have been sent by this **transport** (p. 67) to the Broker, this allows a client to verify that its messages are making it to the wire.

Parameters:

listener - The CommandListener to notify for each message

- 6.383.3.28 **void** **activemq::transport::mock::MockTransport::setResponseBuilder**
 (**const Pointer**< **ResponseBuilder** > & *responseBuilder*) [inline]

Sets the **ResponseBuilder** (p. 2235) that this class uses to create Responses to Commands sent. These are either real Response Objects, or Commands that would have been sent Asynchronously be the Broker.

Parameters:

responseBuilder - The **ResponseBuilder** (p. 2235) to use from now on.

6.383.3.29 virtual void activemq::transport::mock::MockTransport::setTransportListener (TransportListener * *listener*) [inline, virtual]

Sets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).

Parameters:

listener the listener of **transport** (p. 67) events.

Implements **activemq::transport::Transport** (p. 2612).

6.383.3.30 virtual void activemq::transport::mock::MockTransport::setWireFormat (const Pointer< wireformat::WireFormat > &wireFormat *AMQCPP_UNUSED*) [inline, virtual]

Sets the WireFormat instance to use.

Parameters:

wireFormat WireFormat the object used to encode / decode **commands** (p. 59).

6.383.3.31 virtual void activemq::transport::mock::MockTransport::start () throw (cms::CMSEException) [inline, virtual]

Starts the service.

Exceptions:

CMSEException if an internal error occurs while starting.

Implements **cms::Startable** (p. 2413).

The documentation for this class was generated from the following file:

- src/main/activemq/transport/mock/**MockTransport.h**

6.384 activemq::transport::mock::MockTransportFactory Class Reference

Manufactures MockTransports, which are objects that read from input streams and write to output streams.

#include <src/main/activemq/transport/mock/MockTransportFactory.h> Inheritance diagram for activemq::transport::mock::MockTransportFactory:

Public Member Functions

- virtual `~MockTransportFactory()`
- virtual `Pointer< Transport > create (const decaf::net::URI &location) throw (exceptions::ActiveMQException)`

*Creates a fully configured **Transport** (p. 2608) instance which could be a chain of filters and transports.*

- virtual `Pointer< Transport > createComposite (const decaf::net::URI &location) throw (exceptions::ActiveMQException)`

*Creates a slimmed down **Transport** (p. 2608) instance which can be used in composite **transport** (p. 67) instances.*

Protected Member Functions

- virtual `Pointer< Transport > doCreateComposite (const decaf::net::URI &location, const Pointer< wireformat::WireFormat > &wireFormat, const decaf::util::Properties &properties) throw (exceptions::ActiveMQException)`

*Creates a slimmed down **Transport** (p. 2608) instance which can be used in composite **transport** (p. 67) instances.*

6.384.1 Detailed Description

Manufactures MockTransports, which are objects that read from input streams and write to output streams.

6.384.2 Constructor & Destructor Documentation

6.384.2.1 virtual
activemq::transport::mock::MockTransportFactory::~MockTransportFactory
() [inline, virtual]

6.384.3 Member Function Documentation

6.384.3.1 virtual Pointer<Transport> ac-
tivemq::transport::mock::MockTransportFactory::create (const
decaf::net::URI & *location*) throw (exceptions::ActiveMQException)
[virtual]

Creates a fully configured **Transport** (p.2608) instance which could be a chain of filters and transports.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implements **activemq::transport::TransportFactory** (p.2614).

6.384.3.2 virtual Pointer<Transport> ac-
tivemq::transport::mock::MockTransportFactory::createComposite (const
decaf::net::URI & *location*) throw (exceptions::ActiveMQException)
[virtual]

Creates a slimed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implements **activemq::transport::TransportFactory** (p.2615).

6.384.3.3 virtual Pointer<Transport> ac-
tivemq::transport::mock::MockTransportFactory::doCreateComposite
(const decaf::net::URI & *location*, const Pointer<
wireformat::WireFormat > & *wireFormat*, const decaf::util::Properties
& *properties*) throw (exceptions::ActiveMQException) [protected,
virtual]

Creates a slimed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.

Parameters:

location - URI location to connect to.

wireFormat - the assigned WireFormat for the new **Transport** (p. 2608).

properties - Properties to apply to the **transport** (p. 67).

Returns:

Pointer to a new **Transport** (p. 2608) instance.

Exceptions:

ActiveMQException if an error occurs

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/mock/MockTransportFactory.h`

6.385 decaf::util::concurrent::Mutex Class Reference

Creates a `pthread_mutex_t` object.

`#include <src/main/decaf/util/concurrent/Mutex.h>` Inheritance diagram for `decaf::util::concurrent::Mutex`:

Public Member Functions

- **Mutex** ()
Constructor - creates and initializes the mutex.
- virtual **~Mutex** ()
Destructor - destroys the mutex object.
- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.385.1 Detailed Description

Creates a `pthread_mutex_t` object. The object is created such that successive **locks** (p. 119) from the same thread is allowed and will be successful.

See also:

`pthread_mutex_t`

6.385.2 Constructor & Destructor Documentation

6.385.2.1 decaf::util::concurrent::Mutex::Mutex ()

Constructor - creates and initializes the mutex.

6.385.2.2 virtual decaf::util::concurrent::Mutex::~~Mutex () [virtual]

Destructor - destroys the mutex object.

6.385.3 Member Function Documentation**6.385.3.1 virtual void decaf::util::concurrent::Mutex::lock () throw (lang::Exception) [virtual]**

Locks the object.

Exceptions:*ActiveMQException*

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

Referenced by `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::lock()`, `decaf::util::StlMap< std::string, cms::Topic * >::lock()`, `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::lock()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::lock()`.

6.385.3.2 virtual void decaf::util::concurrent::Mutex::notify () throw (lang::Exception) [virtual]

Signals a waiter on this object that it can now wake up and continue.

Exceptions:*ActiveMQException*

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

Referenced by `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::notify()`, `decaf::util::StlMap< std::string, cms::Topic * >::notify()`, `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::notify()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::notify()`.

6.385.3.3 virtual void decaf::util::concurrent::Mutex::notifyAll () throw (lang::Exception) [virtual]

Signals the waiters on this object that it can now wake up and continue.

Exceptions:*ActiveMQException*

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

Referenced by `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::notifyAll()`, `decaf::util::StlMap< std::string, cms::Topic * >::notifyAll()`, `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::notifyAll()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::notifyAll()`.

6.385.3.4 virtual void decaf::util::concurrent::Mutex::unlock () throw (lang::Exception) [virtual]

Unlocks the object.

Exceptions:

ActiveMQException

Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

Referenced by `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::unlock()`, `decaf::util::StlMap< std::string, cms::Topic * >::unlock()`, `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::unlock()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::unlock()`.

6.385.3.5 virtual void decaf::util::concurrent::Mutex::wait (unsigned long *milliseconds*) throw (lang::Exception) [virtual]

Waits on a signal from this object, which is generated by a call to `Notify`. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait.

Exceptions:

ActiveMQException

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.385.3.6 virtual void decaf::util::concurrent::Mutex::wait () throw (lang::Exception) [virtual]

Waits on a signal from this object, which is generated by a call to `Notify`.

Exceptions:

ActiveMQException

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

Referenced by `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::wait()`, `decaf::util::StlMap< std::string, cms::Topic * >::wait()`, `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >::wait()`, and `decaf::util::AbstractCollection< Pointer< BackupTransport > >::wait()`.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/Mutex.h`

6.386 activemq::commands::NetworkBridgeFilter Class Reference

#include <src/main/activemq/commands/NetworkBridgeFilter.h> Inheritance diagram for activemq::commands::NetworkBridgeFilter:

Public Member Functions

- **NetworkBridgeFilter** ()
- virtual **~NetworkBridgeFilter** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **NetworkBridgeFilter * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual int **getNetworkTTL** () const
- virtual void **setNetworkTTL** (int networkTTL)
- virtual const **Pointer**< **BrokerId** > & **getNetworkBrokerId** () const
- virtual **Pointer**< **BrokerId** > & **getNetworkBrokerId** ()
- virtual void **setNetworkBrokerId** (const **Pointer**< **BrokerId** > &networkBrokerId)

Static Public Attributes

- static const unsigned char **ID_NETWORKBRIDGEFILTER** = 91

Protected Member Functions

- **NetworkBridgeFilter** (const **NetworkBridgeFilter** &)
- **NetworkBridgeFilter** & **operator=** (const **NetworkBridgeFilter** &)

Protected Attributes

- int **networkTTL**
- **Pointer**< **BrokerId** > **networkBrokerId**

6.386.1 Constructor & Destructor Documentation

6.386.1.1 `activemq::commands::NetworkBridgeFilter::NetworkBridgeFilter (const NetworkBridgeFilter &) [inline, protected]`

6.386.1.2 `activemq::commands::NetworkBridgeFilter::NetworkBridgeFilter ()`

6.386.1.3 `virtual
activemq::commands::NetworkBridgeFilter::~~NetworkBridgeFilter ()
[virtual]`

6.386.2 Member Function Documentation

6.386.2.1 `virtual NetworkBridgeFilter* ac-
tivemq::commands::NetworkBridgeFilter::cloneDataStructure () const
[virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.386.2.2 `virtual void ac-
tivemq::commands::NetworkBridgeFilter::copyDataStructure (const
DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.386.2.3 `virtual bool activemq::commands::NetworkBridgeFilter::equals (const
DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

6.386.2.4 `virtual unsigned char ac-
tivemq::commands::NetworkBridgeFilter::getDataStructureType () const
[virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

- 6.386.2.5 **virtual** **Pointer**<**BrokerId**>& **activemq::commands::NetworkBridgeFilter::getNetworkBrokerId** ()
[virtual]
- 6.386.2.6 **virtual const** **Pointer**<**BrokerId**>& **activemq::commands::NetworkBridgeFilter::getNetworkBrokerId** () **const**
[virtual]
- 6.386.2.7 **virtual int** **activemq::commands::NetworkBridgeFilter::getNetworkTTL**
() **const** [virtual]
- 6.386.2.8 **NetworkBridgeFilter&** **activemq::commands::NetworkBridgeFilter::operator=**
(**const NetworkBridgeFilter &**) [inline, protected]
- 6.386.2.9 **virtual void** **activemq::commands::NetworkBridgeFilter::setNetworkBrokerId** (**const**
Pointer< **BrokerId** > & *networkBrokerId*) [virtual]
- 6.386.2.10 **virtual void** **activemq::commands::NetworkBridgeFilter::setNetworkTTL**
(**int** *networkTTL*) [virtual]
- 6.386.2.11 **virtual std::string** **activemq::commands::NetworkBridgeFilter::toString**
() **const** [virtual]

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataSet** (p. 560).

6.386.3 Field Documentation

- 6.386.3.1 **const unsigned char** **activemq::commands::NetworkBridgeFilter::ID_ -**
NETWORKBRIDGEFILTER = 91 [static]
- 6.386.3.2 **Pointer**<**BrokerId**> **activemq::commands::NetworkBridgeFilter::networkBrokerId**
[protected]
- 6.386.3.3 **int** **activemq::commands::NetworkBridgeFilter::networkTTL** [protected]

The documentation for this class was generated from the following file:

- **src/main/activemq/commands/NetworkBridgeFilter.h**

6.387 activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller Class Reference

Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p.1927).

#include <src/main/activemq/wireformat/openwire/marshal/v3/NetworkBridgeFilterMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller:

Public Member Functions

- **NetworkBridgeFilterMarshaller** ()
- virtual **~NetworkBridgeFilterMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.387.1 Detailed Description

Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p.1927).
 NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.387.2 Constructor & Destructor Documentation

6.387.2.1 `activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::NetworkBridgeFilterMarshaller()` [inline]

6.387.2.2 `virtual activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::~~NetworkBridgeFilterMarshaller()` [inline, virtual]

6.387.3 Member Function Documentation

6.387.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.387.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.387.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.387.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.387.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.387.3.6 virtual void activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.387.3.7 virtual void activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/NetworkBridgeFilterMarshaller.h

6.388 activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller Class Reference

Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1931).

#include <src/main/activemq/wireformat/openwire/marshal/v2/NetworkBridgeFilterMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller:

Public Member Functions

- **NetworkBridgeFilterMarshaller** ()
- virtual **~NetworkBridgeFilterMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.388.1 Detailed Description

Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1931).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.388.2 Constructor & Destructor Documentation

6.388.2.1 `activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::NetworkBridgeFilterMarshaller()` [inline]

6.388.2.2 `virtual activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::~~NetworkBridgeFilterMarshaller()` [inline, virtual]

6.388.3 Member Function Documentation

6.388.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.388.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.388.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.388.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::looseUnmarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.388.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::tightMarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.388.3.6 virtual void activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.388.3.7 virtual void activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/NetworkBridgeFilterMarshaller.h

6.389 activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller Class Reference

Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p.1935).

#include <src/main/activemq/wireformat/openwire/marshal/v1/NetworkBridgeFilterMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller:

Public Member Functions

- **NetworkBridgeFilterMarshaller** ()
- virtual **~NetworkBridgeFilterMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.389.1 Detailed Description

Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p.1935).
NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.389.2 Constructor & Destructor Documentation

6.389.2.1 `activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::NetworkBridgeFilterMarshaller()` [inline]

6.389.2.2 `virtual activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::~~NetworkBridgeFilterMarshaller()` [inline, virtual]

6.389.3 Member Function Documentation

6.389.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.389.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.389.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.389.3.4 virtual void **activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::looseUnmarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.389.3.5 virtual int **activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::tightMarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.389.3.6 virtual void activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.389.3.7 virtual void activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/NetworkBridgeFilterMarshaller.h

6.390 decaf::net::NoRouteToHostException Class Reference

#include <src/main/decaf/net/NoRouteToHostException.h> Inheritance diagram for decaf::net::NoRouteToHostException:

Public Member Functions

- **NoRouteToHostException** () throw ()
Default Constructor.
- **NoRouteToHostException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **NoRouteToHostException** (const **NoRouteToHostException** &ex) throw ()
Copy Constructor.
- **NoRouteToHostException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **NoRouteToHostException** (const std::exception *cause) throw ()
Constructor.
- **NoRouteToHostException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **NoRouteToHostException** * clone () const
Clones this exception.
- virtual ~**NoRouteToHostException** () throw ()

6.390.1 Constructor & Destructor Documentation

6.390.1.1 decaf::net::NoRouteToHostException::NoRouteToHostException () throw () [inline]

Default Constructor.

6.390.1.2 decaf::net::NoRouteToHostException::NoRouteToHostException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.390.1.3 `decaf::net::NoRouteToHostException::NoRouteToHostException (const NoRouteToHostException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.390.1.4 `decaf::net::NoRouteToHostException::NoRouteToHostException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.390.1.5 `decaf::net::NoRouteToHostException::NoRouteToHostException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.390.1.6 `decaf::net::NoRouteToHostException::NoRouteToHostException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.390.1.7 **virtual**
decaf::net::NoRouteToHostException::~~NoRouteToHostException ()
throw () [inline, virtual]

6.390.2 Member Function Documentation

6.390.2.1 **virtual NoRouteToHostException* de-**
caf::net::NoRouteToHostException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::net::SocketException** (p. 2380).

The documentation for this class was generated from the following file:

- src/main/decaf/net/**NoRouteToHostException.h**

6.391 decaf::security::NoSuchAlgorithmException Class Reference

#include <src/main/decaf/security/NoSuchAlgorithmException.h> Inheritance diagram for decaf::security::NoSuchAlgorithmException:

Public Member Functions

- **NoSuchAlgorithmException** () throw ()
Default Constructor.
- **NoSuchAlgorithmException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **NoSuchAlgorithmException** (const **NoSuchAlgorithmException** &ex) throw ()
Copy Constructor.
- **NoSuchAlgorithmException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **NoSuchAlgorithmException** (const std::exception *cause) throw ()
Constructor.
- **NoSuchAlgorithmException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **NoSuchAlgorithmException** * **clone** () const
Clones this exception.
- virtual ~**NoSuchAlgorithmException** () throw ()

6.391.1 Constructor & Destructor Documentation

6.391.1.1 decaf::security::NoSuchAlgorithmException::NoSuchAlgorithmException () throw () [inline]

Default Constructor.

6.391.1.2 decaf::security::NoSuchAlgorithmException::NoSuchAlgorithmException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.391.1.3 decaf::security::NoSuchAlgorithmException::NoSuchAlgorithmException (const NoSuchAlgorithmException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.391.1.4 decaf::security::NoSuchAlgorithmException::NoSuchAlgorithmException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.391.1.5 decaf::security::NoSuchAlgorithmException::NoSuchAlgorithmException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.391.1.6 decaf::security::NoSuchAlgorithmException::NoSuchAlgorithmException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.391.1.7 **virtual**
decaf::security::NoSuchAlgorithmException::~~NoSuchAlgorithmException
() throw () [inline, virtual]

6.391.2 **Member Function Documentation**

6.391.2.1 **virtual NoSuchAlgorithmException* de-**
caf::security::NoSuchAlgorithmException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from **decaf::security::GeneralSecurityException** (p. 1381).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/NoSuchAlgorithmException.h`

6.392 decaf::lang::exceptions::NoSuchElementException Class Reference

#include <src/main/decaf/lang/exceptions/NoSuchElementException.h> Inheritance diagram for decaf::lang::exceptions::NoSuchElementException:

Public Member Functions

- **NoSuchElementException** () throw ()
Default Constructor.
- **NoSuchElementException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **NoSuchElementException** (const **NoSuchElementException** &ex) throw ()
Copy Constructor.
- **NoSuchElementException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **NoSuchElementException** (const std::exception *cause) throw ()
Constructor.
- **NoSuchElementException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **NoSuchElementException** * clone () const
Clones this exception.
- virtual ~**NoSuchElementException** () throw ()

6.392.1 Constructor & Destructor Documentation

6.392.1.1 decaf::lang::exceptions::NoSuchElementException::NoSuchElementException () throw () [inline]

Default Constructor.

6.392.1.2 decaf::lang::exceptions::NoSuchElementException::NoSuchElementException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.392.1.3 `decaf::lang::exceptions::NoSuchElementException::NoSuchElementException (const NoSuchElementException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.392.1.4 `decaf::lang::exceptions::NoSuchElementException::NoSuchElementException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.392.1.5 `decaf::lang::exceptions::NoSuchElementException::NoSuchElementException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.392.1.6 `decaf::lang::exceptions::NoSuchElementException::NoSuchElementException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.392.1.7 virtual
decaf::lang::exceptions::NoSuchElementException::~~NoSuchElementException
() throw () [inline, virtual]

6.392.2 Member Function Documentation

6.392.2.1 virtual NoSuchElementException* de-
cafe::lang::exceptions::NoSuchElementException::clone ()
const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**NoSuchElementException.h**

6.393 decaf::security::NoSuchProviderException Class Reference

#include <src/main/decaf/security/NoSuchProviderException.h> Inheritance diagram for decaf::security::NoSuchProviderException:

Public Member Functions

- **NoSuchProviderException** () throw ()
Default Constructor.
- **NoSuchProviderException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **NoSuchProviderException** (const **NoSuchProviderException** &ex) throw ()
Copy Constructor.
- **NoSuchProviderException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **NoSuchProviderException** (const std::exception *cause) throw ()
Constructor.
- **NoSuchProviderException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **NoSuchProviderException** * clone () const
Clones this exception.
- virtual ~**NoSuchProviderException** () throw ()

6.393.1 Constructor & Destructor Documentation

6.393.1.1 decaf::security::NoSuchProviderException::NoSuchProviderException () throw () [inline]

Default Constructor.

6.393.1.2 decaf::security::NoSuchProviderException::NoSuchProviderException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.393.1.3 decaf::security::NoSuchProviderException::NoSuchProviderException
(const NoSuchProviderException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.393.1.4 decaf::security::NoSuchProviderException::NoSuchProviderException
(const char * *file*, const int *lineNumber*, const std::exception * *cause*,
const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.393.1.5 decaf::security::NoSuchProviderException::NoSuchProviderException
(const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.393.1.6 decaf::security::NoSuchProviderException::NoSuchProviderException
(const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw ()
[inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.393.1.7 **virtual**
decaf::security::NoSuchProviderException::~~NoSuchProviderException
() throw () [inline, virtual]

6.393.2 **Member Function Documentation**

6.393.2.1 **virtual NoSuchProviderException* de-**
caf::security::NoSuchProviderException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from **decaf::security::GeneralSecurityException** (p. 1381).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/NoSuchProviderException.h`

6.394 decaf::lang::exceptions::NullPointerException Class Reference

#include <src/main/decaf/lang/exceptions/NullPointerException.h> Inheritance diagram for decaf::lang::exceptions::NullPointerException:

Public Member Functions

- **NullPointerException** () throw ()
Default Constructor.
- **NullPointerException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **NullPointerException** (const **NullPointerException** &ex) throw ()
Copy Constructor.
- **NullPointerException** (const char *file, const int lineNumber, const std::exception ***cause**, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **NullPointerException** (const std::exception ***cause**) throw ()
Constructor.
- **NullPointerException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **NullPointerException** * **clone** () const
Clones this exception.
- virtual ~**NullPointerException** () throw ()

6.394.1 Constructor & Destructor Documentation

6.394.1.1 decaf::lang::exceptions::NullPointerException::NullPointerException () throw () [inline]

Default Constructor.

6.394.1.2 decaf::lang::exceptions::NullPointerException::NullPointerException (const **Exception** & *ex*) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.394.1.3 `decaf::lang::exceptions::NullPointerException::NullPointerException` `(const NullPointerException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.394.1.4 `decaf::lang::exceptions::NullPointerException::NullPointerException` `(const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.394.1.5 `decaf::lang::exceptions::NullPointerException::NullPointerException` `(const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.394.1.6 `decaf::lang::exceptions::NullPointerException::NullPointerException` `(const char * file, const int lineNumber, const char * msg, ...) throw ()` `[inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.394.1.7 **virtual**
decaf::lang::exceptions::NullPointerException::~~NullPointerException ()
throw () [inline, virtual]

6.394.2 Member Function Documentation

6.394.2.1 **virtual** NullPointerException* de-
cafe::lang::exceptions::NullPointerException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**NullPointerException.h**

6.395 decaf::lang::Number Class Reference

The abstract class **Number** (p. 1954) is the superclass of classes **Byte** (p. 664), **Double** (p. 1231), **Float** (p. 1328), **Integer** (p. 1428), **Long** (p. 1652), and **Short** (p. 2321).

#include <src/main/decaf/lang/Number.h> Inheritance diagram for decaf::lang::Number:

Public Member Functions

- virtual `~Number ()`
- virtual unsigned char `byteValue () const`
Answers the byte value which the receiver represents.
- virtual double `doubleValue () const =0`
Answers the double value which the receiver represents.
- virtual float `floatValue () const =0`
Answers the float value which the receiver represents.
- virtual int `intValue () const =0`
Answers the int value which the receiver represents.
- virtual long long `longValue () const =0`
Answers the long value which the receiver represents.
- virtual short `shortValue () const`
Answers the short value which the receiver represents.

6.395.1 Detailed Description

The abstract class **Number** (p. 1954) is the superclass of classes **Byte** (p. 664), **Double** (p. 1231), **Float** (p. 1328), **Integer** (p. 1428), **Long** (p. 1652), and **Short** (p. 2321). Subclasses of **Number** (p. 1954) must provide methods to convert the represented numeric value to byte, double, float, int, long, and short.

6.395.2 Constructor & Destructor Documentation

6.395.2.1 virtual `decaf::lang::Number::~~Number ()` [inline, virtual]

6.395.3 Member Function Documentation

6.395.3.1 virtual unsigned char `decaf::lang::Number::byteValue () const` [inline, virtual]

Answers the byte value which the receiver represents.

Returns:

byte the value of the receiver.

Reimplemented in **decaf::lang::Byte** (p. 666), **decaf::lang::Character** (p. 803), **decaf::lang::Double** (p. 1233), **decaf::lang::Float** (p. 1330), **decaf::lang::Integer** (p. 1431), **decaf::lang::Long** (p. 1655), and **decaf::lang::Short** (p. 2323).

6.395.3.2 virtual double decaf::lang::Number::doubleValue () const [pure virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implemented in **decaf::lang::Byte** (p. 667), **decaf::lang::Character** (p. 804), **decaf::lang::Double** (p. 1235), **decaf::lang::Float** (p. 1331), **decaf::lang::Integer** (p. 1432), **decaf::lang::Long** (p. 1656), **decaf::lang::Short** (p. 2324), and **decaf::util::concurrent::atomic::AtomicInteger** (p. 493).

6.395.3.3 virtual float decaf::lang::Number::floatValue () const [pure virtual]

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implemented in **decaf::lang::Byte** (p. 668), **decaf::lang::Character** (p. 804), **decaf::lang::Double** (p. 1236), **decaf::lang::Float** (p. 1333), **decaf::lang::Integer** (p. 1433), **decaf::lang::Long** (p. 1657), **decaf::lang::Short** (p. 2325), and **decaf::util::concurrent::atomic::AtomicInteger** (p. 493).

6.395.3.4 virtual int decaf::lang::Number::intValue () const [pure virtual]

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implemented in **decaf::lang::Byte** (p. 668), **decaf::lang::Character** (p. 805), **decaf::lang::Double** (p. 1236), **decaf::lang::Float** (p. 1333), **decaf::lang::Integer** (p. 1433), **decaf::lang::Long** (p. 1657), **decaf::lang::Short** (p. 2325), and **decaf::util::concurrent::atomic::AtomicInteger** (p. 495).

6.395.3.5 virtual long long decaf::lang::Number::longValue () const [pure virtual]

Answers the long value which the receiver represents.

Returns:

long long the value of the receiver.

Implemented in `decaf::lang::Byte` (p. 668), `decaf::lang::Character` (p. 806), `decaf::lang::Double` (p. 1237), `decaf::lang::Float` (p. 1334), `decaf::lang::Integer` (p. 1434), `decaf::lang::Long` (p. 1658), `decaf::lang::Short` (p. 2325), and `decaf::util::concurrent::atomic::AtomicInteger` (p. 495).

6.395.3.6 virtual short decaf::lang::Number::shortValue () const [inline, virtual]

Answers the short value which the receiver represents.

Returns:

short the value of the receiver.

Reimplemented in `decaf::lang::Byte` (p. 670), `decaf::lang::Character` (p. 807), `decaf::lang::Double` (p. 1239), `decaf::lang::Float` (p. 1336), `decaf::lang::Integer` (p. 1438), `decaf::lang::Long` (p. 1662), and `decaf::lang::Short` (p. 2327).

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Number.h`

6.396 decaf::lang::exceptions::NumberFormatException Class Reference

#include <src/main/decaf/lang/exceptions/NumberFormatException.h> Inheritance diagram for decaf::lang::exceptions::NumberFormatException:

Public Member Functions

- **NumberFormatException** ()
Default Constructor.
- **NumberFormatException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **NumberFormatException** (const **NumberFormatException** &ex) throw ()
Copy Constructor.
- **NumberFormatException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **NumberFormatException** (const std::exception *cause) throw ()
Constructor.
- **NumberFormatException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **NumberFormatException** * clone () const
Clones this exception.
- virtual ~**NumberFormatException** () throw ()

6.396.1 Constructor & Destructor Documentation

6.396.1.1 decaf::lang::exceptions::NumberFormatException::NumberFormatException () [inline]

Default Constructor.

Referenced by clone().

6.396.1.2 decaf::lang::exceptions::NumberFormatException::NumberFormatException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.396.1.3 `decaf::lang::exceptions::NumberFormatException::NumberFormatException
(const NumberFormatException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.396.1.4 `decaf::lang::exceptions::NumberFormatException::NumberFormatException
(const char * file, const int lineNumber, const std::exception * cause,
const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

References `decaf::lang::Exception::buildMessage()`, and `decaf::lang::Exception::setMark()`.

6.396.1.5 `decaf::lang::exceptions::NumberFormatException::NumberFormatException
(const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.396.1.6 `decaf::lang::exceptions::NumberFormatException::NumberFormatException
(const char * file, const int lineNumber, const char * msg, ...) throw ()
[inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

References decaf::lang::Exception::buildMessage(), and decaf::lang::Exception::setMark().

6.396.1.7 virtual

decaf::lang::exceptions::NumberFormatException::~~NumberFormatException
() throw () [inline, virtual]

6.396.2 Member Function Documentation

6.396.2.1 virtual NumberFormatException* decaf::lang::exceptions::NumberFormatException::clone ()
const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

References NumberFormatException().

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**NumberFormatException.h**

6.397 cms::ObjectMessage Class Reference

Place holder for interaction with JMS systems that support Java, the C++ client is not responsible for deserializing the contained Object.

`#include <src/main/cms/ObjectMessage.h>`Inheritance diagram for cms::ObjectMessage:

Public Member Functions

- virtual `~ObjectMessage ()`

6.397.1 Detailed Description

Place holder for interaction with JMS systems that support Java, the C++ client is not responsible for deserializing the contained Object. serialized `ObjectMessage` (p. 1960)s.

Since:

1.0

6.397.2 Constructor & Destructor Documentation

6.397.2.1 virtual cms::ObjectMessage::~ObjectMessage () [inline, virtual]

The documentation for this class was generated from the following file:

- `src/main/cms/ObjectMessage.h`

6.398 decaf::security_provider::unix::openssl::OpenSSLX500Principal Class Reference

The `OpenSSLX500Principal` (p. 1961) wraps around an OpenSSL `X509_NAME` structure.

```
#include <src/main/decaf/security_provider/unix/openssl/OpenSSLX500Principal.h>
```

Public Member Functions

- **OpenSSLX500Principal** (`X509_NAME *name`)
Constructor.
- virtual **~OpenSSLX500Principal** ()
Destructor.
- virtual `X509_NAME *getX509Name` ()
Accessor to the underlying X509 name structure.
- virtual `bool equals` (const `Principal &another`) const
Compares two principals to see if they are the same.
- virtual `std::string getName` () const
Returns the distinguished name string using the RFC2253 formatting.
- virtual `void getEncoded` (std::vector< unsigned char > &output) const
Serializes the distinguished name to its ASN.1 DER encoded form.

Static Public Member Functions

- static `void getEncoded` (`X509_NAME *name`, std::vector< unsigned char > &output)
Serializes the given distinguished name to its ASN.1 DER encoded form.
- static `std::string toString` (`X509_NAME *name`) const
Converts the given name to a string using the RFC2253 formatting.

6.398.1 Detailed Description

The `OpenSSLX500Principal` (p. 1961) wraps around an OpenSSL `X509_NAME` structure. It does not, however, control the lifetime of the structure.

6.398.2 Constructor & Destructor Documentation

6.398.2.1 decaf::security_provider::unix::openssl::OpenSSLX500Principal::OpenSSLX500Principal (`X509_NAME * name`)

Constructor. Saves the **internal** (p. 95) X509 name and caches the string representation of the name.

Parameters:

name The underlying X509 name structure.

6.398.2.2 `virtual decaf::security_-
provider::unix::openssl::OpenSSLX500Principal::~OpenSSLX500Principal
() [inline, virtual]`

Destructor. Does nothing.

6.398.3 Member Function Documentation

6.398.3.1 `virtual bool decaf::security_-
provider::unix::openssl::OpenSSLX500Principal::equals
(const Principal & another) const [virtual]`

Compares two principals to see if they are the same.

Parameters:

another A principal to be tested for equality to this one.

Returns:

true if the given principal is equivalent to this one.

6.398.3.2 `static void decaf::security_-
provider::unix::openssl::OpenSSLX500Principal::getEncoded
(X509_NAME * name, std::vector< unsigned char > & output)
[static]`

Serializes the given distinguished name to its ASN.1 DER encoded form.

Parameters:

name the X509 name structure to be encoded.

output Receives the distinguished name in ASN.1 DER encoded form.

6.398.3.3 `virtual void decaf::security_-
provider::unix::openssl::OpenSSLX500Principal::getEncoded
(std::vector< unsigned char > & output) const [inline, virtual]`

Serializes the distinguished name to its ASN.1 DER encoded form.

Parameters:

output Receives the distinguished name in ASN.1 DER encoded form.

6.398.3.4 `virtual std::string decaf::security_provider::unix::openssl::OpenSSLX500Principal::getName()
() const [inline, virtual]`

Returns the distinguished name string using the RFC2253 formatting.

Returns:

the RFC2253 formatted distinguished name string.

References toString().

6.398.3.5 `virtual X509_NAME* decaf::security_provider::unix::openssl::OpenSSLX500Principal::getX509Name()
[inline, virtual]`

Accessor to the underlying X509 name structure.

6.398.3.6 `static std::string decaf::security_provider::unix::openssl::OpenSSLX500Principal::toString(
X509_NAME * name) const [static]`

Converts the given name to a string using the RFC2253 formatting.

Parameters:

name the X509 name structure to be formatted.

Returns:

the RFC2253 formatted name string.

Referenced by getName().

The documentation for this class was generated from the following file:

- src/main/decaf/security_provider/unix/openssl/OpenSSLX500Principal.h

6.399 decaf::security_provider::unix::openssl::OpenSSLX509Certificate Class Reference

#include <src/main/decaf/security_provider/unix/openssl/OpenSSLX509Certificate.h> Inheritance diagram for decaf::security_provider::unix::openssl::OpenSSLX509Certificate:

Public Member Functions

- virtual **~OpenSSLX509Certificate** ()
- virtual bool **equals** (const Certificate &cert) const =0
Compares the encoded form of the two certificates.
- virtual void **getEncoded** (std::vector< unsigned char > &output) const =0 throw (CertificateEncodingException)
Provides the encoded form of this certificate.
- virtual std::string **getType** () const =0
Returns the type of this certificate.
- virtual PublicKey * **getPublicKey** ()=0
Gets the public key of this certificate.
- virtual const PublicKey * **getPublicKey** () const =0
Gets the public key of this certificate.
- virtual void **verify** (const PublicKey &publicKey) const =0 throw (NoSuchAlgorithmException, InvalidKeyException, NoSuchProviderException, SignatureException, CertificateException)
Verifies that this certificate was signed with the private key that corresponds to the specified public key.
- virtual void **verify** (const PublicKey &publicKey, const std::string &sigProvider) const =0 throw (NoSuchAlgorithmException, InvalidKeyException, NoSuchProviderException, SignatureException, CertificateException)
Verifies that this certificate was signed with the private key that corresponds to the specified public key.
- virtual std::string **toString** () const =0
Returns a string representation of this certificate.
- virtual void **checkValidity** () const =0 throw (CertificateExpiredException, CertificateNotYetValidException)
- virtual void **checkValidity** (const decaf::util::Date &date) const =0 throw (CertificateExpiredException, CertificateNotYetValidException)
- virtual int **getBasicConstraints** () const =0
- virtual void **getIssuerUniqueID** (std::vector< bool > &output) const =0
- virtual const X500Principal * **getIssuerX500Principal** () const =0
- virtual void **getKeyUsage** (std::vector< unsigned char > &output) const =0

- virtual Date **getNotAfter** () const =0
- virtual Date **getNotBefore** () const =0
- virtual std::string **getSigAlgName** () const =0
- virtual std::string **getSigAlgOID** () const =0
- virtual void **getSigAlgParams** (std::vector< unsigned char > &output) const =0
- virtual void **getSignature** (std::vector< unsigned char > &output) const =0
- virtual void **getSubjectUniqueID** (std::vector< bool > &output) const =0
- virtual const X500Principal * **getSubjectX500Principal** () const =0
- virtual void **getTBSCertificate** (std::vector< unsigned char > &output) const =0 throw (CertificateEncodingException)
- virtual int **getVersion** () const =0

6.399.1 Constructor & Destructor Documentation

6.399.1.1 virtual decaf::security_provider::unix::openssl::OpenSSLX509Certificate::~~OpenSSLX509Certificate () [virtual]

6.399.2 Member Function Documentation

6.399.2.1 virtual void decaf::security_provider::unix::openssl::OpenSSLX509Certificate::checkValidity (const decaf::util::Date & *date*) const throw (CertificateExpiredException, CertificateNotYetValidException) [pure virtual]

Implements decaf::security::cert::X509Certificate (p. 2728).

6.399.2.2 virtual void decaf::security_provider::unix::openssl::OpenSSLX509Certificate::checkValidity () const throw (CertificateExpiredException, CertificateNotYetValidException) [pure virtual]

Implements decaf::security::cert::X509Certificate (p. 2729).

6.399.2.3 virtual bool decaf::security_provider::unix::openssl::OpenSSLX509Certificate::equals (const Certificate & *cert*) const [pure virtual]

Compares the encoded form of the two certificates.

Parameters:

cert The certificate to be tested for equality with this certificate.

Returns:

true if the given certificate is equal to this certificate.

6.399.2.4 `virtual int decaf::security_-
provider::unix::openssl::OpenSSLX509Certificate::getBasicConstraints ()
const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2729).

6.399.2.5 `virtual void decaf::security_-
provider::unix::openssl::OpenSSLX509Certificate::getEncoded
(std::vector< unsigned char > & output) const throw (
CertificateEncodingException) [pure virtual]`

Provides the encoded form of this certificate.

Parameters:

output Receives the encoded form of this certificate.

Exceptions:

CertificateEncodingException if an encoding error occurs

Implements `decaf::security::cert::Certificate` (p. 788).

6.399.2.6 `virtual void decaf::security_-
provider::unix::openssl::OpenSSLX509Certificate::getIssuerUniqueID
(std::vector< bool > & output) const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2729).

6.399.2.7 `virtual const X500Principal* decaf::security_-
provider::unix::openssl::OpenSSLX509Certificate::getIssuerX500Principal
() const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2729).

6.399.2.8 `virtual void decaf::security_-
provider::unix::openssl::OpenSSLX509Certificate::getKeyUsage
(std::vector< unsigned char > & output) const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2729).

6.399.2.9 `virtual Date decaf::security_-
provider::unix::openssl::OpenSSLX509Certificate::getNotAfter () const
[pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2729).

6.399.2.10 `virtual Date decaf::security_-
provider::unix::openssl::OpenSSLX509Certificate::getNotBefore () const
[pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2729).

6.399.2.11 `virtual const PublicKey* decaf::security_provider::unix::openssl::OpenSSLX509Certificate::getPublicKey () const`
`[pure virtual]`

Gets the public key of this certificate.

Returns:

the public key

Implements `decaf::security::cert::Certificate` (p. 788).

6.399.2.12 `virtual PublicKey* decaf::security_provider::unix::openssl::OpenSSLX509Certificate::getPublicKey ()`
`[pure virtual]`

Gets the public key of this certificate.

Returns:

the public key

Implements `decaf::security::cert::Certificate` (p. 788).

6.399.2.13 `virtual std::string decaf::security_provider::unix::openssl::OpenSSLX509Certificate::getSigAlgName ()`
`const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2729).

6.399.2.14 `virtual std::string decaf::security_provider::unix::openssl::OpenSSLX509Certificate::getSigAlgOID ()`
`const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2730).

6.399.2.15 `virtual void decaf::security_provider::unix::openssl::OpenSSLX509Certificate::getSigAlgParams`
`(std::vector< unsigned char > & output) const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2730).

6.399.2.16 `virtual void decaf::security_provider::unix::openssl::OpenSSLX509Certificate::getSignature`
`(std::vector< unsigned char > & output) const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2730).

6.399.2.17 `virtual void decaf::security_ -
provider::unix::openssl::OpenSSLX509Certificate::getSubjectUniqueID
(std::vector< bool > & output) const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2730).

6.399.2.18 `virtual const X500Principal* decaf::security_ -
provider::unix::openssl::OpenSSLX509Certificate::getSubjectX500Principal
() const [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2730).

6.399.2.19 `virtual void decaf::security_ -
provider::unix::openssl::OpenSSLX509Certificate::getTBSCertificate
(std::vector< unsigned char > & output) const throw (
CertificateEncodingException) [pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2730).

6.399.2.20 `virtual std::string decaf::security_ -
provider::unix::openssl::OpenSSLX509Certificate::getType () const
[pure virtual]`

Returns the type of this certificate.

Returns:

the type of this certificate

Implements `decaf::security::cert::Certificate` (p. 789).

6.399.2.21 `virtual int decaf::security_ -
provider::unix::openssl::OpenSSLX509Certificate::getVersion () const
[pure virtual]`

Implements `decaf::security::cert::X509Certificate` (p. 2730).

6.399.2.22 `virtual std::string decaf::security_ -
provider::unix::openssl::OpenSSLX509Certificate::toString () const
[pure virtual]`

Returns a string representation of this certificate.

Returns:

a string representation of this certificate

Implements `decaf::security::cert::Certificate` (p. 789).

6.399.2.23 virtual void decaf::security_provider::unix::openssl::OpenSSLX509Certificate::verify
(const PublicKey & *publicKey*, const std::string & *sigProvider*)
const throw (NoSuchAlgorithmException, InvalidKeyException,
NoSuchProviderException, SignatureException, CertificateException)
[pure virtual]

Verifies that this certificate was signed with the private key that corresponds to the specified public key. Uses the verification engine of the specified provider.

Parameters:

publicKey The public key used to carry out the validation.

sigProvider The name of the signature provider

Exceptions:

NoSuchAlgorithmException - on unsupported signature algorithms.

InvalidKeyException - on incorrect key.

NoSuchProviderException - if there's no default provider.

SignatureException - on signature errors.

CertificateException - on encoding errors.

6.399.2.24 virtual void decaf::security_provider::unix::openssl::OpenSSLX509Certificate::verify
(const PublicKey & *publicKey*) const throw (NoSuchAlgorithmException,
InvalidKeyException, NoSuchProviderException,
SignatureException, CertificateException) [pure virtual]

Verifies that this certificate was signed with the private key that corresponds to the specified public key.

Parameters:

publicKey The public key used to carry out the validation.

Exceptions:

NoSuchAlgorithmException - on unsupported signature algorithms.

InvalidKeyException - on incorrect key.

NoSuchProviderException - if there's no default provider.

SignatureException - on signature errors.

CertificateException - on encoding errors.

The documentation for this class was generated from the following file:

- src/main/decaf/security_provider/unix/openssl/OpenSSLX509Certificate.h

6.400 activemq::wireformat::openwire::OpenWireFormat Class Reference

#include <src/main/activemq/wireformat/openwire/OpenWireFormat.h> Inheritance diagram for activemq::wireformat::openwire::OpenWireFormat:

Public Member Functions

- **OpenWireFormat** (const **decaf::util::Properties** &properties)
*Constructs a new **OpenWireFormat** (p. 1970) object.*
- virtual **~OpenWireFormat** ()
- virtual bool **hasNegotiator** () const
*Returns true if this **WireFormat** (p. 2693) has a Negotiator that needs to wrap the Transport that uses it.*
- virtual **Pointer< transport::Transport > createNegotiator** (const **Pointer< transport::Transport >** &transport) throw (**decaf::lang::exceptions::UnsupportedOperationException**)
If the Transport Provides a Negotiator this method will create and return a news instance of the Negotiator.
- void **addMarshaller** (**marshal::DataStreamMarshaller** *marshaller)
Allows an external source to add marshalers to this object for types that may be marshaled or unmarshaled.
- virtual void **marshal** (const **Pointer< commands::Command >** &command, const **activemq::transport::Transport** *transport, **decaf::io::DataOutputStream** *out) throw (**decaf::io::IOException**)
Stream based marshaling of a Command, this method blocks until the entire Command has been written out to the output stream.
- virtual **Pointer< commands::Command > unmarshal** (const **activemq::transport::Transport** *transport, **decaf::io::DataInputStream** *in) throw (**decaf::io::IOException**)
Stream based un-marshaling, blocks on reads on the input stream until a complete command has been read and un-marshaled into the correct form.
- virtual int **tightMarshalNestedObject1** (**commands::DataStructure** *object, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Utility method for Tight Marshaling the given object to the boolean stream passed.
- void **tightMarshalNestedObject2** (**commands::DataStructure** *o, **decaf::io::DataOutputStream** *ds, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
*Utility method that will Tight **marshal** (p. 76) some internally nested object that implements the **DataStructure** interface.*

- **commands::DataStructure** * **tightUnmarshalNestedObject** (decaf::io::DataInputStream *dis, utils::BooleanStream *bs) throw (decaf::io::IOException)
Utility method used to Unmarshal a Nested DataStructure type object from the given DataInputStream.
- **commands::DataStructure** * **looseUnmarshalNestedObject** (decaf::io::DataInputStream *dis) throw (decaf::io::IOException)
Utility method to unmarshal an DataStructure object from an DataInputStream using the Loose Unmarshaling format.
- void **looseMarshalNestedObject** (commands::DataStructure *o, decaf::io::DataOutputStream *dataOut) throw (decaf::io::IOException)
Utility method to loosely Marshal an object that is derived from the DataStrcutre interface.
- void **renegotiateWireFormat** (const commands::WireFormatInfo &info) throw (decaf::lang::exceptions::IllegalStateException)
Called to re-negotiate the settings for the WireFormatInfo, these determine how the client and broker communicate.
- virtual void **setPreferedWireFormatInfo** (const Pointer< commands::WireFormatInfo > &info) throw (decaf::lang::exceptions::IllegalStateException)
Configures this object using the provided WireformatInfo object.
- virtual const Pointer< commands::WireFormatInfo > & **getPreferedWireFormatInfo** () const
Gets the Preferred WireFormatInfo object that this class holds.
- bool **isStackTraceEnabled** () const
Checks if the stackTraceEnabled flag is on.
- void **setStackTraceEnabled** (bool stackTraceEnabled)
Sets if the stackTraceEnabled flag is on.
- bool **isTcpNoDelayEnabled** () const
Checks if the tcpNoDelayEnabled flag is on.
- void **setTcpNoDelayEnabled** (bool tcpNoDelayEnabled)
Sets if the tcpNoDelayEnabled flag is on.
- int **getVersion** () const
Get the current Wireformat Version.
- void **setVersion** (int version) throw (decaf::lang::exceptions::IllegalArgumentExpection)
Set the current Wireformat Version.
- bool **isCacheEnabled** () const
Checks if the cacheEnabled flag is on.
- void **setCacheEnabled** (bool cacheEnabled)

Sets if the cacheEnabled flag is on.

- **int getCacheSize () const**
Returns the currently set Cache size.
- **void setCacheSize (int value)**
Sets the current Cache size.
- **bool isTightEncodingEnabled () const**
Checks if the tightEncodingEnabled flag is on.
- **void setTightEncodingEnabled (bool tightEncodingEnabled)**
Sets if the tightEncodingEnabled flag is on.
- **bool isSizePrefixDisabled () const**
Checks if the sizePrefixDisabled flag is on.
- **void setSizePrefixDisabled (bool sizePrefixDisabled)**
Sets if the sizePrefixDisabled flag is on.
- **long long getMaxInactivityDuration () const**
Gets the MaxInactivityDuration setting.
- **void setMaxInactivityDuration (long long value)**
Sets the MaxInactivityDuration setting.
- **long long getMaxInactivityDurationInitialDelay () const**
Gets the MaxInactivityDurationInitialDelay setting.
- **void setMaxInactivityDurationInitialDelay (long long value)**
Sets the MaxInactivityDurationInitialDelay setting.

Protected Member Functions

- **commands::DataStructure * doUnmarshal (decaf::io::DataInputStream *dis)**
throw (decaf::io::IOException)
Perform the actual unmarshal of data from the given DataInputStream return the unmarshalled DataStrucutre object once done, caller takes ownership of this object.
- **void destroyMarshallers ()**
Cleans up all registered Marshallers and empties the dataMarshallers vector.

Static Protected Attributes

- static const unsigned char **NULL__TYPE**
- static const int **DEFAULT__VERSION** = 1

6.400.1 Constructor & Destructor Documentation

6.400.1.1 activemq::wireformat::openwire::OpenWireFormat::OpenWireFormat (const decaf::util::Properties & *properties*)

Constructs a new **OpenWireFormat** (p. 1970) object.

Parameters:

properties - can contain optional config params.

6.400.1.2 virtual activemq::wireformat::openwire::OpenWireFormat::~~OpenWireFormat () [virtual]

6.400.2 Member Function Documentation

6.400.2.1 void activemq::wireformat::openwire::OpenWireFormat::addMarshaller (marshal::DataStreamMarshaller * *marshaller*)

Allows an external source to add marshalers to this object for types that may be marshaled or unmarshaled.

Parameters:

marshaller - the Marshaler to add to the collection.

6.400.2.2 virtual Pointer<transport::Transport> activemq::wireformat::openwire::OpenWireFormat::createNegotiator (const Pointer< transport::Transport > & *transport*) throw (decaf::lang::exceptions::UnsupportedOperationException) [virtual]

If the Transport Provides a Negotiator this method will create and return a news instance of the Negotiator.

Returns:

new instance of a **WireFormatNegotiator** (p. 2721).

Implements **activemq::wireformat::WireFormat** (p. 2694).

6.400.2.3 void activemq::wireformat::openwire::OpenWireFormat::destroyMarshallers () [protected]

Cleans up all registered Marshallers and empties the dataMarshallers vector. This should be called before a reconfiguration of the version marshallers, or on destruction of this object

6.400.2.4 `commands::DataStructure* activemq::wireformat::openwire::OpenWireFormat::doUnmarshal (decaf::io::DataInputStream * dis) throw (decaf::io::IOException)`
`[protected]`

Perform the actual unmarshal of data from the given `DataInputStream` return the unmarshalled `DataStructure` object once done, caller takes ownership of this object. This method can return null if the type of the object to unmarshal is NULL, empty data.

Parameters:

dis - `DataInputStream` to read from

Returns:

new `DataStructure*` that the caller owns

Exceptions:

IOException if an error occurs during the unmarshal

6.400.2.5 `int activemq::wireformat::openwire::OpenWireFormat::getCacheSize ()`
`const [inline]`

Returns the currently set Cache size.

Returns:

the current value of the broker's cache size.

6.400.2.6 `long long activemq::wireformat::openwire::OpenWireFormat::getMaxInactivityDuration () const [inline]`

Gets the `MaxInactivityDuration` setting.

Returns:

maximum inactivity duration value in milliseconds.

6.400.2.7 `long long activemq::wireformat::openwire::OpenWireFormat::getMaxInactivityDurationInitialDelay () const [inline]`

Gets the `MaxInactivityDurationInitialDelay` setting.

Returns:

maximum inactivity duration initial delay value in milliseconds.

6.400.2.8 `virtual const Pointer<commands::WireFormatInfo>& activemq::wireformat::openwire::OpenWireFormat::getPreferredWireFormatInfo () const [inline, virtual]`

Gets the Preferred WireFormatInfo object that this class holds.

Returns:

pointer to a preferred WireFormatInfo object

6.400.2.9 `int activemq::wireformat::openwire::OpenWireFormat::getVersion () const [inline, virtual]`

Get the current Wireformat Version.

Returns:

int that identifies the version

Implements **activemq::wireformat::WireFormat** (p. 2694).

6.400.2.10 `virtual bool activemq::wireformat::openwire::OpenWireFormat::hasNegotiator () const [inline, virtual]`

Returns true if this **WireFormat** (p. 2693) has a Negotiator that needs to wrap the Transport that uses it.

Returns:

true if the **WireFormat** (p. 2693) provides a Negotiator.

Implements **activemq::wireformat::WireFormat** (p. 2694).

6.400.2.11 `bool activemq::wireformat::openwire::OpenWireFormat::isCacheEnabled () const [inline]`

Checks if the cacheEnabled flag is on.

Returns:

true if the flag is on.

6.400.2.12 `bool activemq::wireformat::openwire::OpenWireFormat::isSizePrefixDisabled () const [inline]`

Checks if the sizePrefixDisabled flag is on.

Returns:

true if the flag is on.

6.400.2.13 `bool activemq::wireformat::openwire::OpenWireFormat::isStackTraceEnabled() const [inline]`

Checks if the `stackTraceEnabled` flag is on.

Returns:

true if the flag is on.

6.400.2.14 `bool activemq::wireformat::openwire::OpenWireFormat::isTcpNoDelayEnabled() const [inline]`

Checks if the `tcpNoDelayEnabled` flag is on.

Returns:

true if the flag is on.

6.400.2.15 `bool activemq::wireformat::openwire::OpenWireFormat::isTightEncodingEnabled() const [inline]`

Checks if the `tightEncodingEnabled` flag is on.

Returns:

true if the flag is on.

6.400.2.16 `void activemq::wireformat::openwire::OpenWireFormat::looseMarshalNestedObject(commands::DataStructure * o, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)`

Utility method to loosely Marshal an object that is derived from the `DataStructure` interface. The marshaled data is written to the passed in `DataOutputStream`.

Parameters:

o - `DataStructure` derived Object to Marshal
dataOut - `DataOutputStream` to write the data to

Exceptions:

IOException if an error occurs.

6.400.2.17 `commands::DataStructure* activemq::wireformat::openwire::OpenWireFormat::looseUnmarshalNestedObject(decaf::io::DataInputStream * dis) throw (decaf::io::IOException)`

Utility method to unmarshal a `DataStructure` object from an `DataInputStream` using the Loose Unmarshaling format. Will read the Data and construct a new `DataStructure` based Object, the pointer to the Object returned is now owned by the caller.

Parameters:

dis - the DataInputStream to read the data from

Returns:

a new DataStructure derived Object pointer

Exceptions:

IOException if an error occurs.

6.400.2.18 `virtual void activemq::wireformat::openwire::OpenWireFormat::marshal
(const Pointer< commands::Command > & command,
const activemq::transport::Transport * transport,
decaf::io::DataOutputStream * out) throw (decaf::io::IOException)
[virtual]`

Stream based marshaling of a Command, this method blocks until the entire Command has been written out to the output stream.

Parameters:

command The Command to Marshal.

transport (p. 67) The Transport instance that called this method.

out The output stream to write the command to.

Exceptions:

IOException

Implements `activemq::wireformat::WireFormat` (p. 2695).

6.400.2.19 `void ac-
tivemq::wireformat::openwire::OpenWireFormat::renegotiateWireFormat
(const commands::WireFormatInfo & info) throw (de-
caf::lang::exceptions::IllegalStateException)`

Called to re-negotiate the settings for the WireFormatInfo, these determine how the client and broker communicate.

Parameters:

info - The new Wireformat Info settings

Exceptions:

IllegalStateException is wire format can't be negotiated.

6.400.2.20 `void ac-
tivemq::wireformat::openwire::OpenWireFormat::setCacheEnabled (bool
cacheEnabled) [inline]`

Sets if the cacheEnabled flag is on.

Parameters:

cacheEnabled - true to turn flag is on

6.400.2.21 void activemq::wireformat::openwire::OpenWireFormat::setCacheSize
(int *value*) [inline]

Sets the current Cache size.

Parameters:

value - the value to send as the broker's cache size.

6.400.2.22 void ac-
tivemq::wireformat::openwire::OpenWireFormat::setMaxInactivityDuration
(long long *value*) [inline]

Sets the MaxInactivityDuration setting.

Parameters:

value - the Max inactivity duration value in milliseconds.

6.400.2.23 void ac-
tivemq::wireformat::openwire::OpenWireFormat::setMaxInactivityDurationInitialDelay
(long long *value*) [inline]

Sets the MaxInactivityDurationInitialDelay setting.

Parameters:

value - the Max inactivity Initial Delay duration value in milliseconds.

6.400.2.24 virtual void ac-
tivemq::wireformat::openwire::OpenWireFormat::setPreferredWireFormatInfo
(const Pointer< commands::WireFormatInfo > & *info*) throw (
decaf::lang::exceptions::IllegalStateException) [virtual]

Configures this object using the provided WireFormatInfo object.

Parameters:

info - a WireFormatInfo object, takes ownership.

6.400.2.25 void ac-
tivemq::wireformat::openwire::OpenWireFormat::setSizePrefixDisabled
(bool *sizePrefixDisabled*) [inline]

Sets if the sizePrefixDisabled flag is on.

Parameters:

sizePrefixDisabled - true to turn flag is on

6.400.2.26 void `activemq::wireformat::openwire::OpenWireFormat::setStackTraceEnabled` (bool *stackTraceEnabled*) [inline]

Sets if the `stackTraceEnabled` flag is on.

Parameters:

stackTraceEnabled - true to turn flag is on

6.400.2.27 void `activemq::wireformat::openwire::OpenWireFormat::setTcpNoDelayEnabled` (bool *tcpNoDelayEnabled*) [inline]

Sets if the `tcpNoDelayEnabled` flag is on.

Parameters:

tcpNoDelayEnabled - true to turn flag is on

6.400.2.28 void `activemq::wireformat::openwire::OpenWireFormat::setTightEncodingEnabled` (bool *tightEncodingEnabled*) [inline]

Sets if the `tightEncodingEnabled` flag is on.

Parameters:

tightEncodingEnabled - true to turn flag is on

6.400.2.29 void `activemq::wireformat::openwire::OpenWireFormat::setVersion` (int *version*) throw (`decaf::lang::exceptions::IllegalArgumentException`) [virtual]

Set the current Wireformat Version.

Parameters:

version - int that identifies the version

Implements `activemq::wireformat::WireFormat` (p. 2695).

6.400.2.30 virtual int `activemq::wireformat::openwire::OpenWireFormat::tightMarshalNestedObject1` (`commands::DataStructure` * *object*, `utils::BooleanStream` * *bs*) throw (`decaf::io::IOException`) [virtual]

Utility method for Tight Marshaling the given object to the boolean stream passed.

Parameters:

object - The DataStructure to `marshal` (p. 76)

bs - the BooleanStream to write to

Returns:

size of the data returned.

6.400.2.31 `void activemq::wireformat::openwire::OpenWireFormat::tightMarshalNestedObject2 (commands::DataStructure * o, decaf::io::DataOutputStream * ds, utils::BooleanStream * bs) throw (decaf::io::IOException)`

Utility method that will Tight **marshal** (p. 76) some internally nested object that implements the DataStructure interface. Writes the data to the Data Output Stream provided.

Parameters:

o - DataStructure object
ds - DataOutputStream for writing
bs - BooleanStream

Exceptions:

IOException if an error occurs.

6.400.2.32 `commands::DataStructure* activemq::wireformat::openwire::OpenWireFormat::tightUnmarshalNestedObject (decaf::io::DataInputStream * dis, utils::BooleanStream * bs) throw (decaf::io::IOException)`

Utility method used to Unmarshal a Nested DataStructure type object from the given DataInputStream. The DataStructure instance that is returned is now the property of the caller.

Parameters:

dis - DataInputStream to read from
bs - BooleanStream to read from

Returns:

Newly allocated DataStructure Object

Exceptions:

IOException if an error occurs.

6.400.2.33 `virtual Pointer<commands::Command> activemq::wireformat::openwire::OpenWireFormat::unmarshal (const activemq::transport::Transport * transport, decaf::io::DataInputStream * in) throw (decaf::io::IOException) [virtual]`

Stream based un-marshaling, blocks on reads on the input stream until a complete command has been read and un-marshaled into the correct form. Returns a Pointer to the newly un-marshaled Command.

Parameters:

transport (p. 67) - Pointer to the **transport** (p. 67) that is making this request.
in - the input stream to read the command from.

Returns:

the newly marshaled Command, caller owns the pointer

Exceptions:

IOException

Implements **activemq::wireformat::WireFormat** (p. 2695).

6.400.3 Field Documentation

6.400.3.1 `const int`
`activemq::wireformat::openwire::OpenWireFormat::DEFAULT_`
`VERSION = 1` [static, protected]

6.400.3.2 `const unsigned char`
`activemq::wireformat::openwire::OpenWireFormat::NULL_`
`TYPE` [static, protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/OpenWireFormat.h`

6.401 activemq::wireformat::openwire::OpenWireFormatFactory Class Reference

#include <src/main/activemq/wireformat/openwire/OpenWireFormatFactory.h> Inheritance diagram for activemq::wireformat::openwire::OpenWireFormatFactory:

Public Member Functions

- **OpenWireFormatFactory ()**

Constructor - Sets Defaults for all properties, these are all subject to change once the `createWireFormat` method is called.

- **virtual ~OpenWireFormatFactory ()**

- **virtual Pointer< wireformat::WireFormat > createWireFormat (const decaf::util::Properties &properties) throw (decaf::lang::exceptions::IllegalStateException)**

*Creates a new **WireFormat** (p. 2693) Object passing it a set of properties from which it can obtain any optional settings.*

6.401.1 Constructor & Destructor Documentation

6.401.1.1 activemq::wireformat::openwire::OpenWireFormatFactory::OpenWireFormatFactory () [inline]

Constructor - Sets Defaults for all properties, these are all subject to change once the `createWireFormat` method is called. URL options ----- wireFormat.stackTraceEnabled wireFormat.cacheEnabled wireFormat.tcpNoDelayEnabled wireFormat.tightEncodingEnabled wireFormat.sizePrefixDisabled wireFormat.maxInactivityDuration wireFormat.maxInactivityDurationInitialDelay

6.401.1.2 virtual activemq::wireformat::openwire::OpenWireFormatFactory::~~OpenWireFormatFactory () [inline, virtual]

6.401.2 Member Function Documentation

6.401.2.1 virtual Pointer<wireformat::WireFormat> activemq::wireformat::openwire::OpenWireFormatFactory::createWireFormat (const decaf::util::Properties & *properties*) throw (decaf::lang::exceptions::IllegalStateException) [virtual]

Creates a new **WireFormat** (p. 2693) Object passing it a set of properties from which it can obtain any optional settings.

Parameters:

properties - the Properties for this **WireFormat** (p. 2693)

Implements **activemq::wireformat::WireFormatFactory** (p. 2697).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/OpenWireFormatFactory.h`

6.402 activemq::wireformat::openwire::OpenWireFormatNegotiator Class Reference

#include <src/main/activemq/wireformat/openwire/OpenWireFormatNegotiator.h> Inheritance diagram for activemq::wireformat::openwire::OpenWireFormatNegotiator:

Public Member Functions

- **OpenWireFormatNegotiator** (**OpenWireFormat** *wireFormat, const **Pointer**< **transport::Transport** > &next)
Constructor - Initializes this object around another Transport.
- virtual **~OpenWireFormatNegotiator** ()
- virtual void **oneway** (const **Pointer**< **commands::Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends a one-way command.
- virtual **Pointer**< **commands::Response** > **request** (const **Pointer**< **commands::Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given request to the server and waits for the response.
- virtual **Pointer**< **commands::Response** > **request** (const **Pointer**< **commands::Command** > &command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given request to the server and waits for the response.
- virtual void **onCommand** (const **Pointer**< **commands::Command** > &command)
This is called in the context of the nested transport's reading thread.
- virtual void **onTransportException** (**transport::Transport** *source, const **decaf::lang::Exception** &ex)
*Event handler for an exception from a command **transport** (p. 67).*
- virtual void **start** () throw (cms::CMSException)
*Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59).*
- virtual void **close** () throw (cms::CMSException)
Stops the polling thread and closes the streams.

6.402.1 Constructor & Destructor Documentation

6.402.1.1 activemq::wireformat::openwire::OpenWireFormatNegotiator::OpenWireFormatNegotiator (**OpenWireFormat** * wireFormat, const **Pointer**< **transport::Transport** > & next)

Constructor - Initializes this object around another Transport.

Parameters:

wireFormat - The **WireFormat** (p. 2693) object we use to negotiate
next - The next **transport** (p. 67) in the chain

6.402.1.2 virtual
activemq::wireformat::openwire::OpenWireFormatNegotiator::~~OpenWireFormatNegotiator()
[virtual]

6.402.2 Member Function Documentation

6.402.2.1 virtual void activemq::wireformat::openwire::OpenWireFormatNegotiator::close ()
throw (cms::CMSException) [virtual]

Stops the polling thread and closes the streams. This can be called explicitly, but is also called in the destructor. Once this object has been closed, it cannot be restarted.

Exceptions:

CMSException if errors occur.

Reimplemented from **activemq::transport::TransportFilter** (p. 2618).

6.402.2.2 virtual void activemq::wireformat::openwire::OpenWireFormatNegotiator::onCommand
(const Pointer< commands::Command > & *command*) [virtual]

This is called in the context of the nested transport's reading thread. In the case of a response object, updates the request map and notifies those waiting on the response. Non-response messages are just delegated to the command listener.

Parameters:

command the received from the nested **transport** (p. 67).

Reimplemented from **activemq::transport::TransportFilter** (p. 2620).

6.402.2.3 virtual void activemq::wireformat::openwire::OpenWireFormatNegotiator::oneway
(const Pointer< commands::Command > & *command*) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
[virtual]

Sends a one-way command. Does not wait for any response from the broker. First waits for the WireFormatInfo exchange to happen so that we know how to encode out-bound data.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Reimplemented from **activemq::transport::TransportFilter** (p. 2620).

6.402.2.4 `virtual void activemq::wireformat::openwire::OpenWireFormatNegotiator::onTransportException (transport::Transport * source, const decaf::lang::Exception & ex) [virtual]`

Event handler for an exception from a command **transport** (p. 67).

Parameters:

source The source of the exception
ex The exception.

6.402.2.5 `virtual Pointer<commands::Response> activemq::wireformat::openwire::OpenWireFormatNegotiator::request (const Pointer< commands::Command > & command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends the given request to the server and waits for the response. First waits for the WireFormatInfo exchange to happen so that we know how to encode out-bound data.

Parameters:

command The request to send.
timeout The time to wait for the response.

Returns:

the response from the server.

Exceptions:

IOException if an error occurs with the request.

Reimplemented from **activemq::transport::TransportFilter** (p. 2621).

6.402.2.6 `virtual Pointer<commands::Response> activemq::wireformat::openwire::OpenWireFormatNegotiator::request (const Pointer< commands::Command > & command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Sends the given request to the server and waits for the response. First waits for the WireFormatInfo exchange to happen so that we know how to encode out-bound data.

Parameters:

command The request to send.

Returns:

the response from the server.

Exceptions:

IOException if an error occurs with the request.

Reimplemented from **activemq::transport::TransportFilter** (p. 2622).

6.402.2.7 virtual void activemq::wireformat::openwire::OpenWireFormatNegotiator::start () throw (cms::CMSException) [virtual]

Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59). If this object has been closed, throws an exception. Before calling start, the caller must set the IO streams and the reader and writer objects.

Exceptions:

CMSException if an error occurs or if this **transport** (p. 67) has already been closed.

Reimplemented from **activemq::transport::TransportFilter** (p. 2622).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/OpenWireFormatNegotiator.h

6.403 activemq::wireformat::openwire::OpenWireResponseBuilder Class Reference

#include <src/main/activemq/wireformat/openwire/OpenWireResponseBuilder.h> Inheritance diagram for activemq::wireformat::openwire::OpenWireResponseBuilder:

Public Member Functions

- **OpenWireResponseBuilder** ()
- virtual **~OpenWireResponseBuilder** ()
- virtual **Pointer< commands::Response > buildResponse** (const **Pointer< commands::Command > &command**)

Given a Command, check if it requires a response and return the appropriate Response that the Broker would send for this Command.

- virtual void **buildIncomingCommands** (const **Pointer< commands::Command > &command**, **decaf::util::StlQueue< Pointer< commands::Command > > &queue**)

*When called the ResponseBuilder must construct all the Responses or Asynchronous **commands** (p. 59) that would be sent to this client by the Broker upon receipt of the passed command.*

6.403.1 Constructor & Destructor Documentation

6.403.1.1 **activemq::wireformat::openwire::OpenWireResponseBuilder::OpenWireResponseBuilder** () [inline]

6.403.1.2 **virtual activemq::wireformat::openwire::OpenWireResponseBuilder::~~OpenWireResponseBuilder** () [inline, virtual]

6.403.2 Member Function Documentation

6.403.2.1 **virtual void activemq::wireformat::openwire::OpenWireResponseBuilder::buildIncomingCommands** (const **Pointer< commands::Command > & command**, **decaf::util::StlQueue< Pointer< commands::Command > > & queue**) [virtual]

When called the ResponseBuilder must construct all the Responses or Asynchronous **commands** (p. 59) that would be sent to this client by the Broker upon receipt of the passed command.

Parameters:

command - The Command being sent to the Broker.

queue - Queue of Command sent back from the broker.

Implements **activemq::transport::mock::ResponseBuilder** (p. 2235).

6.403.2.2 `virtual Pointer<commands::Response> activemq::wireformat::openwire::OpenWireResponseBuilder::buildResponse(const Pointer< commands::Command > & command) [virtual]`

Given a Command, check if it requires a response and return the appropriate Response that the Broker would send for this Command.

Parameters:

command - The command to build a response for

Returns:

A Response object pointer, or NULL if no response.

Implements **activemq::transport::mock::ResponseBuilder** (p. 2236).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/OpenWireResponseBuilder.h`

6.404 activemq::wireformat::openwire::utils::OpenwireStringSupport Class Reference

```
#include <src/main/activemq/wireformat/openwire/utils/OpenwireStringSupport.h>
```

Static Public Member Functions

- static std::string **readString** (decaf::io::DataInputStream &dataIn) throw (decaf::io::IOException)

Static method used for reading a string that uses the Openwire format from a DataInputStream, this can throw an IOException for the same reason as a DataInputStream.readUTF might, as well as if the string that is received doesn't conform to the supported character encoding.

- static void **writeString** (decaf::io::DataOutputStream &dataOut, const std::string *str) throw (decaf::io::IOException)

Static method used for writing a string that uses the Openwire format from a DataOutputStream, this can throw an IOException for the same reason as a DataOutputStream.writeUTF might.

Protected Member Functions

- OpenwireStringSupport ()
- virtual ~OpenwireStringSupport ()

6.404.1 Constructor & Destructor Documentation

6.404.1.1 **activemq::wireformat::openwire::utils::OpenwireStringSupport::OpenwireStringSupport** () [inline, protected]

6.404.1.2 **virtual**
activemq::wireformat::openwire::utils::OpenwireStringSupport::~~OpenwireStringSupport () [inline, protected, virtual]

6.404.2 Member Function Documentation

6.404.2.1 **static std::string** **activemq::wireformat::openwire::utils::OpenwireStringSupport::readString** (decaf::io::DataInputStream & *dataIn*) throw (decaf::io::IOException) [static]

Static method used for reading a string that uses the Openwire format from a DataInputStream, this can throw an IOException for the same reason as a DataInputStream.readUTF might, as well as if the string that is received doesn't conform to the supported character encoding.

Parameters:

dataIn - DataInputStream to read from

Returns:

A string that has been read

Exceptions:

IOException on Error.

6.404.2.2 static void activemq::wireformat::openwire::utils::OpenwireStringSupport::writeString (decaf::io::DataOutputStream & *dataOut*, const std::string * *str*) throw (decaf::io::IOException) [static]

Static method used for writing a string that uses the Openwire format from a DataOutputStream, this can throw an IOException for the same reason as a DataOutputStream.writeUTF might.

Parameters:

dataOut - DataOutputStream to write to

str - A pointer to a string that should be written, NULL needs to be an option here as its written as -1.

Exceptions:

IOException on Error.

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/utils/**OpenwireStringSupport.h**

6.405 decaf::io::OutputStream Class Reference

Base interface for an output stream.

#include <src/main/decaf/io/OutputStream.h> Inheritance diagram for decaf::io::OutputStream:

Public Member Functions

- virtual **~OutputStream** ()
- virtual void **write** (unsigned char c)=0 throw (IOException)
Writes a single byte to the output stream.
- virtual void **write** (const std::vector< unsigned char > &buffer)=0 throw (IOException)
Writes an array of bytes to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset, std::size_t len)=0 throw (IOException, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **flush** ()=0 throw (IOException)
Flushes any pending writes in this output stream.

6.405.1 Detailed Description

Base interface for an output stream.

6.405.2 Constructor & Destructor Documentation

6.405.2.1 virtual decaf::io::OutputStream::~~OutputStream () [inline, virtual]

6.405.3 Member Function Documentation

6.405.3.1 virtual void decaf::io::OutputStream::flush () throw (IOException)
[pure virtual]

Flushes any pending writes in this output stream.

Exceptions:

IOException (p. 1477)

Implemented in **decaf::internal::io::StandardErrorOutputStream** (p. 2400), **decaf::internal::io::StandardOutputStream** (p. 2410), **decaf::io::BufferedOutputStream** (p. 639), **decaf::io::ByteArrayOutputStream** (p. 725), **decaf::io::FilterOutputStream** (p. 1324), and **decaf::net::SocketOutputStream** (p. 2391).

6.405.3.2 virtual void decaf::io::OutputStream::write (const unsigned char * *buffer*, std::size_t *offset*, std::size_t *len*) throw (IOException, lang::exceptions::NullPointerException) [pure virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The array of bytes to write.

offset the position to start writing in buffer.

len The number of bytes from the buffer to be written.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

NullPointerException thrown if buffer is Null.

Implemented in `activemq::io::LoggingOutputStream` (p. 1635), `decaf::internal::io::StandardErrorOutputStream` (p. 2401), `decaf::internal::io::StandardOutputStream` (p. 2411), `decaf::io::BufferedOutputStream` (p. 639), `decaf::io::ByteArrayOutputStream` (p. 727), `decaf::io::DataOutputStream` (p. 1127), `decaf::io::FilterOutputStream` (p. 1326), and `decaf::net::SocketOutputStream` (p. 2393).

6.405.3.3 virtual void decaf::io::OutputStream::write (const std::vector< unsigned char > & *buffer*) throw (IOException) [pure virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The bytes to write.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implemented in `decaf::internal::io::StandardErrorOutputStream` (p. 2402), `decaf::internal::io::StandardOutputStream` (p. 2412), `decaf::io::BufferedOutputStream` (p. 640), `decaf::io::ByteArrayOutputStream` (p. 727), `decaf::io::DataOutputStream` (p. 1127), `decaf::io::FilterOutputStream` (p. 1326), and `decaf::net::SocketOutputStream` (p. 2393).

6.405.3.4 virtual void decaf::io::OutputStream::write (unsigned char *c*) throw (IOException) [pure virtual]

Writes a single byte to the output stream.

Parameters:

c the byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

Implemented in `activemq::io::LoggingOutputStream` (p. 1636), `decaf::internal::io::StandardErrorOutputStream` (p. 2402), `decaf::internal::io::StandardOutputStream` (p. 2412), `decaf::io::BufferedOutputStream` (p. 640), `decaf::io::ByteArrayOutputStream` (p. 728), `decaf::io::DataOutputStream` (p. 1127), `decaf::io::FilterOutputStream` (p. 1327), and `decaf::net::SocketOutputStream` (p. 2393).

The documentation for this class was generated from the following file:

- `src/main/decaf/io/OutputStream.h`

6.406 activemq::commands::PartialCommand Class Reference

#include <src/main/activemq/commands/PartialCommand.h> Inheritance diagram for activemq::commands::PartialCommand:

Public Member Functions

- **PartialCommand** ()
- virtual **~PartialCommand** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **PartialCommand * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual int **getCommandId** () const
- virtual void **setCommandId** (int commandId)
- virtual const std::vector< unsigned char > & **getData** () const
- virtual std::vector< unsigned char > & **getData** ()
- virtual void **setData** (const std::vector< unsigned char > &data)

Static Public Attributes

- static const unsigned char **ID_PARTIALCOMMAND** = 60

Protected Member Functions

- **PartialCommand** (const **PartialCommand** &)
- **PartialCommand** & **operator=** (const **PartialCommand** &)

Protected Attributes

- int **commandId**
- std::vector< unsigned char > **data**

6.406.1 Constructor & Destructor Documentation

- 6.406.1.1** `activemq::commands::PartialCommand::PartialCommand (const PartialCommand &) [inline, protected]`
- 6.406.1.2** `activemq::commands::PartialCommand::PartialCommand ()`
- 6.406.1.3** `virtual activemq::commands::PartialCommand::~~PartialCommand () [virtual]`

6.406.2 Member Function Documentation

- 6.406.2.1** `virtual PartialCommand* activemq::commands::PartialCommand::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

Reimplemented in `activemq::commands::LastPartialCommand` (p. 1576).

- 6.406.2.2** `virtual void activemq::commands::PartialCommand::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented in `activemq::commands::LastPartialCommand` (p. 1576).

- 6.406.2.3** `virtual bool activemq::commands::PartialCommand::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented in `activemq::commands::LastPartialCommand` (p. 1576).

- 6.406.2.4** `virtual int activemq::commands::PartialCommand::getCommandId () const [virtual]`
- 6.406.2.5** `virtual std::vector<unsigned char>& activemq::commands::PartialCommand::getData () [virtual]`
- 6.406.2.6** `virtual const std::vector<unsigned char>& activemq::commands::PartialCommand::getData () const [virtual]`
- 6.406.2.7** `virtual unsigned char activemq::commands::PartialCommand::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

Reimplemented in **activemq::commands::LastPartialCommand** (p. 1577).

- 6.406.2.8** `PartialCommand& activemq::commands::PartialCommand::operator= (const PartialCommand &) [inline, protected]`

Reimplemented in **activemq::commands::LastPartialCommand** (p. 1577).

- 6.406.2.9** `virtual void activemq::commands::PartialCommand::setCommandId (int commandId) [virtual]`
- 6.406.2.10** `virtual void activemq::commands::PartialCommand::setData (const std::vector< unsigned char > & data) [virtual]`
- 6.406.2.11** `virtual std::string activemq::commands::PartialCommand::toString () const [virtual]`

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseDataSet** (p. 560).

Reimplemented in **activemq::commands::LastPartialCommand** (p. 1577).

6.406.3 Field Documentation

6.406.3.1 `int activemq::commands::PartialCommand::commandId` [protected]

6.406.3.2 `std::vector<unsigned char> activemq::commands::PartialCommand::data`
[protected]

6.406.3.3 `const unsigned char activemq::commands::PartialCommand::ID_ -`
`PARTIALCOMMAND = 60` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/PartialCommand.h`

6.407 activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p.1999).

#include <src/main/activemq/wireformat/openwire/marshal/v2/PartialCommandMarshaller.h>Inheritance
diagram for activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller:

Public Member Functions

- **PartialCommandMarshaller** ()
- virtual **~PartialCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.407.1 Detailed Description

Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p.1999). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.407.2 Constructor & Destructor Documentation

6.407.2.1 `activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::PartialCommandMarshaller()` [inline]

6.407.2.2 `virtual activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::~~PartialCommandMarshaller()` [inline, virtual]

6.407.3 Member Function Documentation

6.407.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller` (p. 1587).

6.407.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller` (p. 1587).

6.407.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller** (p. 1587).

6.407.3.4 virtual void ac-
tivemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::looseUnmarshal
(**OpenWireFormat** * *wireFormat*, **commands::DataStructure**
* *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (
decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller** (p. 1588).

6.407.3.5 virtual int ac-
tivemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::tightMarshal1
(**OpenWireFormat** * *wireFormat*, **commands::DataStructure** *
dataStructure, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**
) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller** (p. 1588).

6.407.3.6 virtual void activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller** (p. 1589).

6.407.3.7 virtual void activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller** (p. 1589).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/PartialCommandMarshaller.h

6.408 activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2003).

#include <src/main/activemq/wireformat/openwire/marshal/v3/PartialCommandMarshaller.h>Inheritance
diagram for activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller:

Public Member Functions

- **PartialCommandMarshaller** ()
- virtual **~PartialCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.408.1 Detailed Description

Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2003). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.408.2 Constructor & Destructor Documentation

6.408.2.1 `activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::PartialCommandMarshaller()` [inline]

6.408.2.2 `virtual activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::~~PartialCommandMarshaller()` [inline, virtual]

6.408.3 Member Function Documentation

6.408.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller` (p. 1579).

6.408.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller` (p. 1579).

6.408.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller** (p. 1579).

6.408.3.4 virtual void activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::looseUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller** (p. 1580).

6.408.3.5 virtual int activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::tightMarshal1 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller** (p. 1580).

6.408.3.6 virtual void activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller** (p. 1581).

6.408.3.7 virtual void activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller** (p. 1581).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**PartialCommandMarshaller.h**

6.409 activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2007).

#include <src/main/activemq/wireformat/openwire/marshal/v1/PartialCommandMarshaller.h>Inheritance
diagram for activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller:

Public Member Functions

- **PartialCommandMarshaller** ()
- virtual **~PartialCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.409.1 Detailed Description

Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2007). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.409.2 Constructor & Destructor Documentation

6.409.2.1 `activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::PartialCommandMarshaller()` [inline]

6.409.2.2 `virtual activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::~~PartialCommandMarshaller()` [inline, virtual]

6.409.3 Member Function Documentation

6.409.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller` (p. 1583).

6.409.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller` (p. 1583).

6.409.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller** (p. 1583).

6.409.3.4 virtual void ac-
tivemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::looseUnmarshal
(OpenWireFormat * *wireFormat*, commands::DataStructure
* *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (
decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller** (p. 1584).

6.409.3.5 virtual int ac-
tivemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::tightMarshal1
(OpenWireFormat * *wireFormat*, commands::DataStructure *
dataStructure, utils::BooleanStream * *bs*) throw (decaf::io::IOException
) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller** (p. 1584).

6.409.3.6 virtual void activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller** (p. 1585).

6.409.3.7 virtual void activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller** (p. 1585).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**PartialCommandMarshaller.h**

6.410 decaf::lang::Pointer< T, REFCOUNTER > Class Template Reference

Decaf's implementation of a Smart **Pointer** (p. 2011) that is a template on a Type and is **Thread** (p. 2544) Safe if the default Reference Counter is used.

```
#include <src/main/decaf/lang/Pointer.h>
```

Public Types

- typedef T * **PointerType**
- typedef T & **ReferenceType**
- typedef REFCOUNTER **CounterType**

Public Member Functions

- **Pointer** ()
Default Constructor.
- **Pointer** (const **PointerType** value)
*Explicit Constructor, creates a **Pointer** (p. 2011) that contains value with a single reference.*
- **Pointer** (const **Pointer** &value) throw ()
Copy constructor.
- template<typename T1 , typename R1 >
Pointer (const **Pointer**< T1, R1 > &value) throw ()
Copy constructor.
- template<typename T1 , typename R1 >
Pointer (const **Pointer**< T1, R1 > &value, const **STATIC_CAST_TOKEN** &) throw ()
Static Cast constructor.
- template<typename T1 , typename R1 >
Pointer (const **Pointer**< T1, R1 > &value, const **DYNAMIC_CAST_TOKEN** &) throw (decaf::lang::exceptions::ClassCastException)
Dynamic Cast constructor.
- virtual ~**Pointer** () throw ()
- void **reset** (T *value)
*Resets the **Pointer** (p. 2011) to hold the new value.*
- **PointerType** **get** () const
*Gets the real pointer that is contained within this **Pointer** (p. 2011).*
- void **swap** (**Pointer** &value) throw ()
Exception (p. 1268) Safe Swap Function.
- **Pointer** & **operator=** (const **Pointer** &right) throw ()

*Assigns the value of right to this **Pointer** (p. 2011) and increments the reference Count.*

- `template<typename T1 , typename R1 >`
`Pointer & operator= (const Pointer< T1, R1 > &right) throw ()`
- `ReferenceType operator* ()`

Dereference Operator, returns a reference to the Contained value.

- `ReferenceType operator* () const`
- `PointerType operator-> ()`

Indirection Operator, returns a pointer to the Contained value.

- `PointerType operator-> () const`
- `bool operator! () const`
- `template<typename T1 , typename R1 >`
`bool operator== (const Pointer< T1, R1 > &right) const`
- `template<typename T1 , typename R1 >`
`bool operator!= (const Pointer< T1, R1 > &right) const`
- `template<typename T1 >`
`Pointer< T1, CounterType > dynamicCast () const`
- `template<typename T1 >`
`Pointer< T1, CounterType > staticCast () const`

Friends

- `bool operator== (const Pointer &left, const T *right)`
- `bool operator== (const T *left, const Pointer &right)`
- `bool operator!= (const Pointer &left, const T *right)`
- `bool operator!= (const T *left, const Pointer &right)`

6.410.1 Detailed Description

`template<typename T, typename REFCOUNTER = AtomicRefCounter> class`
`decaf::lang::Pointer< T, REFCOUNTER >`

Decaf's implementation of a Smart **Pointer** (p. 2011) that is a template on a Type and is **Thread** (p. 2544) Safe if the default Reference Counter is used. This **Pointer** (p. 2011) type allows for the substitution of different Reference Counter implementations which provide a means of using invasive reference counting if desired using a custom implementation of **ReferenceCounter**.

The Decaf smart pointer provide comparison operators for comparing **Pointer** (p. 2011) instances in the same manner as normal pointer, except that it does not provide an overload of operators (<, <=, >, >=). To allow use of a **Pointer** (p. 2011) in a STL container that requires it, **Pointer** (p. 2011) provides an implementation of std::less.

Since:

1.0

6.410.2 Member Typedef Documentation

- 6.410.2.1** `template<typename T, typename REFCOUNTER = AtomicRefCount> typedef REFCOUNTER decaf::lang::Pointer< T, REFCOUNTER >::CounterType`
- 6.410.2.2** `template<typename T, typename REFCOUNTER = AtomicRefCount> typedef T* decaf::lang::Pointer< T, REFCOUNTER >::PointerType`
- 6.410.2.3** `template<typename T, typename REFCOUNTER = AtomicRefCount> typedef T& decaf::lang::Pointer< T, REFCOUNTER >::ReferenceType`

6.410.3 Constructor & Destructor Documentation

- 6.410.3.1** `template<typename T, typename REFCOUNTER = AtomicRefCount> decaf::lang::Pointer< T, REFCOUNTER >::Pointer () [inline]`

Default Constructor. Initialized the contained pointer to NULL, using the -> operator results in an exception unless reset to contain a real value.

Referenced by `decaf::lang::Pointer< TransactionId >::reset()`.

- 6.410.3.2** `template<typename T, typename REFCOUNTER = AtomicRefCount> decaf::lang::Pointer< T, REFCOUNTER >::Pointer (const PointerType value) [inline, explicit]`

Explicit Constructor, creates a **Pointer** (p. 2011) that contains value with a single reference. This object now has ownership until a call to release.

Parameters:

value - instance of the type we are containing here.

- 6.410.3.3** `template<typename T, typename REFCOUNTER = AtomicRefCount> decaf::lang::Pointer< T, REFCOUNTER >::Pointer (const Pointer< T, REFCOUNTER > & value) throw () [inline]`

Copy constructor. Copies the value contained in the pointer to the new instance and increments the reference counter.

- 6.410.3.4** `template<typename T, typename REFCOUNTER = AtomicRefCount> template<typename T1 , typename R1 > decaf::lang::Pointer< T, REFCOUNTER >::Pointer (const Pointer< T1, R1 > & value) throw () [inline]`

Copy constructor. Copies the value contained in the pointer to the new instance and increments the reference counter.

```

6.410.3.5  template<typename T, typename REFCOUNTER =
           AtomicRefCount> template<typename T1 , typename R1 >
           decaf::lang::Pointer< T, REFCOUNTER >::Pointer (const Pointer< T1,
           R1 > & value, const STATIC_CAST_TOKEN &) throw () [inline]

```

Static Cast constructor. Copies the value contained in the pointer to the new instance and increments the reference counter performing a static cast on the value contained in the source **Pointer** (p.2011) object.

Parameters:

value - **Pointer** (p.2011) instance to cast to this type.

```

6.410.3.6  template<typename T, typename REFCOUNTER =
           AtomicRefCount> template<typename T1 , typename R1 >
           decaf::lang::Pointer< T, REFCOUNTER >::Pointer (const Pointer<
           T1, R1 > & value, const DYNAMIC_CAST_TOKEN &) throw (
           decaf::lang::exceptions::ClassCastException ) [inline]

```

Dynamic Cast constructor. Copies the value contained in the pointer to the new instance and increments the reference counter performing a dynamic cast on the value contained in the source **Pointer** (p.2011) object. If the cast fails and return NULL then this method throws a **ClassCastException**.

Parameters:

value - **Pointer** (p.2011) instance to cast to this type.

Exceptions:

ClassCastException if the dynamic cast returns NULL

```

6.410.3.7  template<typename T, typename REFCOUNTER =
           AtomicRefCount> virtual decaf::lang::Pointer< T, REFCOUNTER
           >::~Pointer () throw () [inline, virtual]

```

6.410.4 Member Function Documentation

```

6.410.4.1  template<typename T, typename REFCOUNTER =
           AtomicRefCount> template<typename T1 > Pointer<T1,
           CounterType> decaf::lang::Pointer< T, REFCOUNTER >::dynamicCast
           () const [inline]

```

```

6.410.4.2  template<typename T, typename REFCOUNTER =
           AtomicRefCount> PointerType decaf::lang::Pointer< T,
           REFCOUNTER >::get () const [inline]

```

Gets the real pointer that is contained within this **Pointer** (p.2011). This is not really safe since the caller could delete or alter the pointer but it mimics the STL `auto_ptr` and gives access in cases where the caller absolutely needs the real **Pointer** (p.2011). Use at your own risk.

Returns:

the contained pointer.

Referenced by activemq::core::ActiveMQConnectionSupport::getProperties(), activemq::core::ActiveMQConnectionSupport::getTransport(), decaf::lang::operator!=(), decaf::lang::Pointer< TransactionId >::operator!=(), std::less< decaf::lang::Pointer< T > >::operator()(), decaf::lang::operator==(), decaf::lang::Pointer< TransactionId >::operator==(), and activemq::state::ConnectionState::removeTempDestination().

6.410.4.3 `template<typename T, typename REFCOUNTER = AtomicRefCount> bool decaf::lang::Pointer< T, REFCOUNTER >::operator! () const [inline]`

6.410.4.4 `template<typename T, typename REFCOUNTER = AtomicRefCount> template<typename T1, typename R1 > bool decaf::lang::Pointer< T, REFCOUNTER >::operator!= (const Pointer< T1, R1 > & right) const [inline]`

6.410.4.5 `template<typename T, typename REFCOUNTER = AtomicRefCount> ReferenceType decaf::lang::Pointer< T, REFCOUNTER >::operator* () const [inline]`

6.410.4.6 `template<typename T, typename REFCOUNTER = AtomicRefCount> ReferenceType decaf::lang::Pointer< T, REFCOUNTER >::operator* () [inline]`

Dereference Operator, returns a reference to the Contained value. This method throws an `NullPointerException` if the contained value is `NULL`.

Returns:

reference to the contained pointer.

Exceptions:

NullPointerException if the contained value is `Null`

6.410.4.7 `template<typename T, typename REFCOUNTER = AtomicRefCount> PointerType decaf::lang::Pointer< T, REFCOUNTER >::operator-> () const [inline]`

6.410.4.8 `template<typename T, typename REFCOUNTER = AtomicRefCount> PointerType decaf::lang::Pointer< T, REFCOUNTER >::operator-> () [inline]`

Indirection Operator, returns a pointer to the Contained value. This method throws an `NullPointerException` if the contained value is `NULL`.

Returns:

reference to the contained pointer.

Exceptions:

NullPointerException if the contained value is Null

6.410.4.9 `template<typename T, typename REFCOUNTER = AtomicRefCount> template<typename T1, typename R1 > Pointer& decaf::lang::Pointer< T, REFCOUNTER >::operator= (const Pointer< T1, R1 > & right) throw () [inline]`

6.410.4.10 `template<typename T, typename REFCOUNTER = AtomicRefCount> Pointer& decaf::lang::Pointer< T, REFCOUNTER >::operator= (const Pointer< T, REFCOUNTER > & right) throw () [inline]`

Assigns the value of *right* to this **Pointer** (p.2011) and increments the reference Count.

Parameters:

right - **Pointer** (p.2011) on the right hand side of an operator= call to this.

6.410.4.11 `template<typename T, typename REFCOUNTER = AtomicRefCount> template<typename T1, typename R1 > bool decaf::lang::Pointer< T, REFCOUNTER >::operator== (const Pointer< T1, R1 > & right) const [inline]`

6.410.4.12 `template<typename T, typename REFCOUNTER = AtomicRefCount> void decaf::lang::Pointer< T, REFCOUNTER >::reset (T * value) [inline]`

Resets the **Pointer** (p.2011) to hold the new value. Before the new value is stored reset checks if the old value should be destroyed and if so calls delete. Call reset with a value of NULL is supported and acts to set this **Pointer** (p.2011) to a NULL pointer.

Parameters:

value - The new value to contain.

6.410.4.13 `template<typename T, typename REFCOUNTER = AtomicRefCount> template<typename T1 > Pointer<T1, CounterType> decaf::lang::Pointer< T, REFCOUNTER >::staticCast () const [inline]`

6.410.4.14 `template<typename T, typename REFCOUNTER = AtomicRefCount> void decaf::lang::Pointer< T, REFCOUNTER >::swap (Pointer< T, REFCOUNTER > & value) throw () [inline]`

Exception (p.1268) Safe Swap Function.

Parameters:

value - the value to swap with this.

Referenced by `decaf::lang::Pointer< TransactionId >::operator=()`, and `decaf::lang::Pointer< TransactionId >::swap()`.

6.410.5 Friends And Related Function Documentation

- 6.410.5.1 `template<typename T, typename REFCOUNTER = AtomicRefCounter> bool operator!= (const T * left, const Pointer< T, REFCOUNTER > & right) [friend]`
- 6.410.5.2 `template<typename T, typename REFCOUNTER = AtomicRefCounter> bool operator!= (const Pointer< T, REFCOUNTER > & left, const T * right) [friend]`
- 6.410.5.3 `template<typename T, typename REFCOUNTER = AtomicRefCounter> bool operator== (const T * left, const Pointer< T, REFCOUNTER > & right) [friend]`
- 6.410.5.4 `template<typename T, typename REFCOUNTER = AtomicRefCounter> bool operator== (const Pointer< T, REFCOUNTER > & left, const T * right) [friend]`

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Pointer.h`

6.411 decaf::lang::PointerComparator< T, R > Class Template Reference

This implementation of Comparator is designed to allows objects in a Collection to be sorted or tested for equality based on the value of the Object being Pointed to and not the value of the contained pointer in the **Pointer** (p. 2011) instance.

#include <src/main/decaf/lang/Pointer.h> Inheritance diagram for decaf::lang::PointerComparator< T, R >:

Public Member Functions

- virtual bool **operator()** (const **Pointer**< T, R > &left, const **Pointer**< T, R > &right) const
- virtual int **compare** (const **Pointer**< T, R > &left, const **Pointer**< T, R > &right) const

6.411.1 Detailed Description

```
template<typename T, typename R = AtomicRefCounter> class
decaf::lang::PointerComparator< T, R >
```

This implementation of Comparator is designed to allows objects in a Collection to be sorted or tested for equality based on the value of the Object being Pointed to and not the value of the contained pointer in the **Pointer** (p. 2011) instance. This can be useful in the case where a series of values in a Collection is more efficiently accessed in the Objects Natural Order and not the underlying pointers location in memory.

Also this allows **Pointer** (p. 2011) objects that Point to different instances of the same type to be compared based on the comparison of the object itself and not just the value of the pointer.

6.411.2 Member Function Documentation

6.411.2.1 template<typename T , typename R = AtomicRefCounter> virtual int decaf::lang::PointerComparator< T, R >::compare (const **Pointer**< T, R > & *left*, const **Pointer**< T, R > & *right*) const [inline, virtual]

6.411.2.2 template<typename T , typename R = AtomicRefCounter> virtual bool decaf::lang::PointerComparator< T, R >::operator() (const **Pointer**< T, R > & *left*, const **Pointer**< T, R > & *right*) const [inline, virtual]

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**Pointer.h**

6.412 activemq::cmsutil::PooledSession Class Reference

A pooled session object that wraps around a delegate session.

#include <src/main/activemq/cmsutil/PooledSession.h> Inheritance diagram for activemq::cmsutil::PooledSession:

Public Member Functions

- **PooledSession** (SessionPool *pool, cms::Session *session)
- virtual ~**PooledSession** ()
Does nothing.
- virtual cms::Session * **getSession** ()
Returns a non-constant reference to the internal session object.
- virtual const cms::Session * **getSession** () const
Returns a constant reference to the internal session object.
- virtual void **close** () throw (cms::CMSEException)
Returns this session back to the pool, but does not close or destroy the internal session object.
- virtual void **commit** () throw (cms::CMSEException)
Commits all messages done in this transaction and releases any locks currently held.
- virtual void **rollback** () throw (cms::CMSEException)
Rolls back all messages done in this transaction and releases any locks currently held.
- virtual void **recover** () throw (cms::CMSEException)
Stops message delivery in this session, and restarts message delivery with the oldest unacknowledged message.
- virtual cms::MessageConsumer * **createConsumer** (const cms::Destination *destination) throw (cms::CMSEException)
Creates a MessageConsumer for the specified destination.
- virtual cms::MessageConsumer * **createConsumer** (const cms::Destination *destination, const std::string &selector) throw (cms::CMSEException)
Creates a MessageConsumer for the specified destination, using a message selector.
- virtual cms::MessageConsumer * **createConsumer** (const cms::Destination *destination, const std::string &selector, bool noLocal) throw (cms::CMSEException)
Creates a MessageConsumer for the specified destination, using a message selector.
- virtual cms::MessageConsumer * **createDurableConsumer** (const cms::Topic *destination, const std::string &name, const std::string &selector, bool noLocal=false) throw (cms::CMSEException)
Creates a durable subscriber to the specified topic, using a Message selector.

- virtual **cms::MessageConsumer** * **createCachedConsumer** (const **cms::Destination** *destination, const std::string &selector, bool noLocal) throw (cms::CMSEException)
First checks the internal consumer cache and creates one if none exist for the given destination, selector, noLocal.
- virtual **cms::MessageProducer** * **createProducer** (const **cms::Destination** *destination) throw (cms::CMSEException)
Creates a MessageProducer to send messages to the specified destination.
- virtual **cms::MessageProducer** * **createCachedProducer** (const **cms::Destination** *destination) throw (cms::CMSEException)
First checks the internal producer cache and creates one if none exist for the given destination.
- virtual **cms::QueueBrowser** * **createBrowser** (const **cms::Queue** *queue) throw (cms::CMSEException)
Creates a new QueueBrowser to peek at Messages on the given Queue.
- virtual **cms::QueueBrowser** * **createBrowser** (const **cms::Queue** *queue, const std::string &selector) throw (cms::CMSEException)
Creates a new QueueBrowser to peek at Messages on the given Queue.
- virtual **cms::Queue** * **createQueue** (const std::string &queueName) throw (cms::CMSEException)
Creates a queue identity given a Queue name.
- virtual **cms::Topic** * **createTopic** (const std::string &topicName) throw (cms::CMSEException)
Creates a topic identity given a Queue name.
- virtual **cms::TemporaryQueue** * **createTemporaryQueue** () throw (cms::CMSEException)
Creates a TemporaryQueue object.
- virtual **cms::TemporaryTopic** * **createTemporaryTopic** () throw (cms::CMSEException)
Creates a TemporaryTopic object.
- virtual **cms::Message** * **createMessage** () throw (cms::CMSEException)
Creates a new Message.
- virtual **cms::BytesMessage** * **createBytesMessage** () throw (cms::CMSEException)
Creates a BytesMessage.
- virtual **cms::BytesMessage** * **createBytesMessage** (const unsigned char *bytes, std::size_t bytesSize) throw (cms::CMSEException)
Creates a BytesMessage and sets the payload to the passed value.
- virtual **cms::StreamMessage** * **createStreamMessage** () throw (cms::CMSEException)
Creates a new StreamMessage.

- virtual **cms::TextMessage** * **createTextMessage** () throw (cms::CMSEException)
Creates a new TextMessage.
- virtual **cms::TextMessage** * **createTextMessage** (const std::string &text) throw (cms::CMSEException)
Creates a new TextMessage and set the text to the value given.
- virtual **cms::MapMessage** * **createMapMessage** () throw (cms::CMSEException)
Creates a new MapMessage.
- virtual **cms::Session::AcknowledgeMode** **getAcknowledgeMode** () const throw (cms::CMSEException)
Returns the acknowledgment mode of the session.
- virtual bool **isTransacted** () const throw (cms::CMSEException)
Gets if the Sessions is a Transacted Session.
- virtual void **unsubscribe** (const std::string &name) throw (cms::CMSEException)
Unsubscribes a durable subscription that has been created by a client.

6.412.1 Detailed Description

A pooled session object that wraps around a delegate session. Calls to close this session only result in giving the session back to the pool.

6.412.2 Constructor & Destructor Documentation

6.412.2.1 **activemq::cmsutil::PooledSession::PooledSession** (SessionPool * *pool*, cms::Session * *session*)

6.412.2.2 **virtual activemq::cmsutil::PooledSession::~~PooledSession** () [virtual]

Does nothing.

6.412.3 Member Function Documentation

6.412.3.1 **virtual void activemq::cmsutil::PooledSession::close** () throw (cms::CMSEException) [virtual]

Returns this session back to the pool, but does not close or destroy the internal session object. Implements **cms::Session** (p. 2273).

6.412.3.2 **virtual void activemq::cmsutil::PooledSession::commit** () throw (cms::CMSEException) [inline, virtual]

Commits all messages done in this transaction and releases any locks currently held.

Exceptions:

CMSEException - If an internal error occurs.

IllegalStateException - if the method is not called by a transacted session.

Implements **cms::Session** (p. 2274).

References cms::Session::commit().

6.412.3.3 `virtual cms::QueueBrowser* activemq::cmsutil::PooledSession::createBrowser (const cms::Queue * queue, const std::string & selector) throw (cms::CMSEException)` [virtual]

Creates a new QueueBrowser to peek at Messages on the given Queue.

Parameters:

queue the Queue to browse

selector the Message selector to filter which messages are browsed.

Returns:

New QueueBrowser that is owned by the caller.

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if the destination given is invalid.

Implements **cms::Session** (p. 2274).

6.412.3.4 `virtual cms::QueueBrowser* activemq::cmsutil::PooledSession::createBrowser (const cms::Queue * queue) throw (cms::CMSEException)` [virtual]

Creates a new QueueBrowser to peek at Messages on the given Queue.

Parameters:

queue the Queue to browse

Returns:

New QueueBrowser that is owned by the caller.

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if the destination given is invalid.

Implements **cms::Session** (p. 2274).

6.412.3.5 `virtual cms::BytesMessage* activemq::cmsutil::PooledSession::createBytesMessage (const unsigned char * bytes, std::size_t bytesSize) throw (cms::CMSException) [inline, virtual]`

Creates a BytesMessage and sets the payload to the passed value.

Parameters:

bytes an array of bytes to set in the message

bytesSize the size of the bytes array, or number of bytes to use

Exceptions:

CMSException - If an internal error occurs.

Implements **cms::Session** (p. 2275).

References cms::Session::createBytesMessage().

6.412.3.6 `virtual cms::BytesMessage* activemq::cmsutil::PooledSession::createBytesMessage () throw (cms::CMSException) [inline, virtual]`

Creates a BytesMessage.

Exceptions:

CMSException - If an internal error occurs.

Implements **cms::Session** (p. 2275).

References cms::Session::createBytesMessage().

6.412.3.7 `virtual cms::MessageConsumer* activemq::cmsutil::PooledSession::createCachedConsumer (const cms::Destination * destination, const std::string & selector, bool noLocal) throw (cms::CMSException) [virtual]`

First checks the internal consumer cache and creates one if none exist for the given destination, selector, noLocal. If created, the consumer is added to the pool's lifecycle manager.

Parameters:

destination the destination to receive on

selector the selector to use

noLocal whether or not to receive messages from the same connection

Returns:

the consumer resource

Exceptions:

cms::CMSException (p. 850) if something goes wrong.

6.412.3.8 `virtual cms::MessageProducer* activemq::cmsutil::PooledSession::createCachedProducer (const cms::Destination * destination) throw (cms::CMSEException)` [virtual]

First checks the internal producer cache and creates one if none exist for the given destination. If created, the producer is added to the pool's lifecycle manager.

Parameters:

destination the destination to send on

Returns:

the producer resource

Exceptions:

cms::CMSEException (p. 850) if something goes wrong.

6.412.3.9 `virtual cms::MessageConsumer* activemq::cmsutil::PooledSession::createConsumer (const cms::Destination * destination, const std::string & selector, bool noLocal) throw (cms::CMSEException)` [inline, virtual]

Creates a MessageConsumer for the specified destination, using a message selector.

Parameters:

destination the Destination that this consumer receiving messages for.

selector the Message Selector to use

noLocal if true, and the destination is a topic, inhibits the delivery of messages published by its own connection. The behavior for NoLocal is not specified if the destination is a queue.

Returns:

pointer to a new MessageConsumer that is owned by the caller (caller deletes)

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if an invalid destination is specified.

InvalidSelectorException - if the message selector is invalid.

Implements `cms::Session` (p. 2275).

References `cms::Session::createConsumer()`.

6.412.3.10 `virtual cms::MessageConsumer* activemq::cmsutil::PooledSession::createConsumer (const cms::Destination * destination, const std::string & selector) throw (cms::CMSEException)` [inline, virtual]

Creates a MessageConsumer for the specified destination, using a message selector.

Parameters:

destination the Destination that this consumer receiving messages for.

selector the Message Selector to use

Returns:

pointer to a new MessageConsumer that is owned by the caller (caller deletes)

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if an invalid destination is specified.

InvalidSelectorException - if the message selector is invalid.

Implements **cms::Session** (p. 2276).

References cms::Session::createConsumer().

```
6.412.3.11 virtual cms::MessageConsumer* ac-
tivemq::cmsutil::PooledSession::createConsumer (const
cms::Destination * destination) throw ( cms::CMSEException ) [inline,
virtual]
```

Creates a MessageConsumer for the specified destination.

Parameters:

destination the Destination that this consumer receiving messages for.

Returns:

pointer to a new MessageConsumer that is owned by the caller (caller deletes)

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if an invalid destination is specified.

Implements **cms::Session** (p. 2276).

References cms::Session::createConsumer().

```
6.412.3.12 virtual cms::MessageConsumer* ac-
tivemq::cmsutil::PooledSession::createDurableConsumer
(const cms::Topic * destination, const std::string & name,
const std::string & selector, bool noLocal = false) throw (
cms::CMSEException ) [inline, virtual]
```

Creates a durable subscriber to the specified topic, using a Message selector. Sessions that create durable consumers must use the same client Id as was used the last time the subscription was created in order to receive all messages that were delivered while the client was offline.

Parameters:

destination the topic to subscribe to

name The name used to identify the subscription

selector the Message Selector to use

noLocal if true, and the destination is a topic, inhibits the delivery of messages published by its own connection. The behavior for NoLocal is not specified if the destination is a queue.

Returns:

pointer to a new durable MessageConsumer that is owned by the caller (caller deletes)

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if an invalid destination is specified.

InvalidSelectorException - if the message selector is invalid.

Implements **cms::Session** (p. 2277).

References cms::Session::createDurableConsumer().

6.412.3.13 `virtual cms::MapMessage* activemq::cmsutil::PooledSession::createMapMessage ()
throw (cms::CMSEException) [inline, virtual]`

Creates a new MapMessage.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2277).

References cms::Session::createMapMessage().

6.412.3.14 `virtual cms::Message* activemq::cmsutil::PooledSession::createMessage
() throw (cms::CMSEException) [inline, virtual]`

Creates a new Message.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2278).

References cms::Session::createMessage().

6.412.3.15 `virtual cms::MessageProducer* activemq::cmsutil::PooledSession::createProducer (const
cms::Destination * destination) throw (cms::CMSEException) [inline,
virtual]`

Creates a MessageProducer to send messages to the specified destination.

Parameters:

destination the Destination to send on

Returns:

New MessageProducer that is owned by the caller.

Exceptions:

CMSEException - If an internal error occurs.

InvalidDestinationException - if an invalid destination is specified.

Implements **cms::Session** (p. 2278).

References cms::Session::createProducer().

6.412.3.16 `virtual cms::Queue* activemq::cmsutil::PooledSession::createQueue
(const std::string & queueName) throw (cms::CMSEException)
[inline, virtual]`

Creates a queue identity given a Queue name.

Parameters:

queueName the name of the new Queue

Returns:

new Queue pointer that is owned by the caller.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2278).

References cms::Session::createQueue().

6.412.3.17 `virtual cms::StreamMessage* ac-
tivemq::cmsutil::PooledSession::createStreamMessage ()
throw (cms::CMSEException) [inline, virtual]`

Creates a new StreamMessage.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2279).

References cms::Session::createStreamMessage().

6.412.3.18 `virtual cms::TemporaryQueue* activemq::cmsutil::PooledSession::createTemporaryQueue ()
throw (cms::CMSEException) [inline, virtual]`

Creates a TemporaryQueue object.

Returns:

new TemporaryQueue pointer that is owned by the caller.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2279).

References cms::Session::createTemporaryQueue().

6.412.3.19 `virtual cms::TemporaryTopic* activemq::cmsutil::PooledSession::createTemporaryTopic ()
throw (cms::CMSEException) [inline, virtual]`

Creates a TemporaryTopic object.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2279).

References cms::Session::createTemporaryTopic().

6.412.3.20 `virtual cms::TextMessage* activemq::cmsutil::PooledSession::createTextMessage (const
std::string & text) throw (cms::CMSEException) [inline, virtual]`

Creates a new TextMessage and set the text to the value given.

Parameters:

text the initial text for the message

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2279).

References cms::Session::createTextMessage().

6.412.3.21 `virtual cms::TextMessage* activemq::cmsutil::PooledSession::createTextMessage ()
throw (cms::CMSEException) [inline, virtual]`

Creates a new TextMessage.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2280).

References cms::Session::createTextMessage().

6.412.3.22 `virtual cms::Topic* activemq::cmsutil::PooledSession::createTopic (const std::string & topicName) throw (cms::CMSEException) [inline, virtual]`

Creates a topic identity given a Queue name.

Parameters:

topicName the name of the new Topic

Returns:

new Topic pointer that is owned by the caller.

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2280).

References cms::Session::createTopic().

6.412.3.23 `virtual cms::Session::AcknowledgeMode activemq::cmsutil::PooledSession::getAcknowledgeMode () const throw (cms::CMSEException) [inline, virtual]`

Returns the acknowledgment mode of the session.

Returns:

the Sessions Acknowledge Mode

Exceptions:

CMSEException - If an internal error occurs.

Implements **cms::Session** (p. 2280).

References cms::Session::getAcknowledgeMode().

6.412.3.24 `virtual const cms::Session* activemq::cmsutil::PooledSession::getSession () const [inline, virtual]`

Returns a constant reference to the internal session object.

Returns:

the session object.

6.412.3.25 `virtual cms::Session* activemq::cmsutil::PooledSession::getSession ()`
[inline, virtual]

Returns a non-constant reference to the internal session object.

Returns:

the session object.

6.412.3.26 `virtual bool activemq::cmsutil::PooledSession::isTransacted () const`
`throw (cms::CMSEException)` [inline, virtual]

Gets if the Sessions is a Transacted Session.

Returns:

transacted true - false.

Exceptions:

CMSEException - If an internal error occurs.

Implements `cms::Session` (p. 2281).

References `cms::Session::isTransacted()`.

6.412.3.27 `virtual void activemq::cmsutil::PooledSession::recover () throw (`
`cms::CMSEException)` [inline, virtual]

Stops message delivery in this session, and restarts message delivery with the oldest unacknowledged message. All consumers deliver messages in a serial order. Acknowledging a received message automatically acknowledges all messages that have been delivered to the client.

Restarting a session causes it to take the following actions:

- Stop message delivery
- Mark all messages that might have been delivered but not acknowledged as "redelivered"
- Restart the delivery sequence including all unacknowledged messages that had been previously delivered. Redelivered messages do not have to be delivered in exactly their original delivery order.

Exceptions:

CMSEException - if the CMS provider fails to stop and restart message delivery due to some internal error.

IllegalStateException - if the method is called by a transacted session.

Implements `cms::Session` (p. 2281).

References `cms::Session::recover()`.

6.412.3.28 virtual void activemq::cmsutil::PooledSession::rollback () throw (cms::CMSException) [inline, virtual]

Rolls back all messages done in this transaction and releases any locks currently held.

Exceptions:

CMSException - If an internal error occurs.

IllegalStateException - if the method is not called by a transacted session.

Implements **cms::Session** (p. 2281).

References cms::Session::rollback().

6.412.3.29 virtual void activemq::cmsutil::PooledSession::unsubscribe (const std::string & name) throw (cms::CMSException) [inline, virtual]

Unsubscribes a durable subscription that has been created by a client. This method deletes the **state** (p. 65) being maintained on behalf of the subscriber by its provider. It is erroneous for a client to delete a durable subscription while there is an active MessageConsumer or Subscriber for the subscription, or while a consumed message is part of a pending transaction or has not been acknowledged in the session.

Parameters:

name The name used to identify this subscription

Exceptions:

CMSException - If an internal error occurs.

Implements **cms::Session** (p. 2282).

References cms::Session::unsubscribe().

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/**PooledSession.h**

6.413 decaf::util::concurrent::PooledThread Class Reference

#include <src/main/decaf/util/concurrent/PooledThread.h> Inheritance diagram for decaf::util::concurrent::PooledThread:

Public Member Functions

- **PooledThread** (**ThreadPool** *pool)

Constructor.

- virtual ~**PooledThread** ()
- virtual void **run** ()

*Run Method for this object waits for something to be enqueued on the **ThreadPool** (p. 2549) and then grabs it and calls its run method.*

- virtual void **stop** () throw (lang::Exception)

Stops the Thread, thread will complete its task if currently running one, and then die.

- virtual bool **isBusy** ()

Checks to see if the thread is busy, if busy it means that this thread has taken a task from the ThreadPool's queue and is processing it.

- virtual void **setPooledThreadListener** (**PooledThreadListener** *listener)

*Adds a listener to this **PooledThread** (p. 2032) to be notified when this thread starts and completes a task.*

- virtual **PooledThreadListener** * **getPooledThreadListener** ()

*Removes a listener for this **PooledThread** (p. 2032) to be notified when this thread starts and completes a task.*

6.413.1 Constructor & Destructor Documentation

6.413.1.1 decaf::util::concurrent::PooledThread::PooledThread (**ThreadPool** * pool)

Constructor.

Parameters:

pool the parent **ThreadPool** (p. 2549) object

6.413.1.2 virtual decaf::util::concurrent::PooledThread::~~PooledThread ()
[virtual]

6.413.2 Member Function Documentation

6.413.2.1 virtual PooledThreadListener* decaf::util::concurrent::PooledThread::getPooledThreadListener ()
[inline, virtual]

Removes a listener for this PooledThread (p.2032) to be notified when this thread starts and completes a task.

Returns:

a pointer to this thread's listener or NULL

6.413.2.2 virtual bool decaf::util::concurrent::PooledThread::isBusy () [inline, virtual]

Checks to see if the thread is busy, if busy it means that this thread has taken a task from the ThreadPool's queue and is processing it.

Returns:

true if the Thread is busy

6.413.2.3 virtual void decaf::util::concurrent::PooledThread::run () [virtual]

Run Method for this object waits for something to be enqueued on the **ThreadPool** (p.2549) and then grabs it and calls its run method.

Reimplemented from **decaf::lang::Thread** (p.2545).

6.413.2.4 virtual void decaf::util::concurrent::PooledThread::setPooledThreadListener (PooledThreadListener * *listener*) [inline, virtual]

Adds a listener to this PooledThread (p.2032) to be notified when this thread starts and completes a task.

Parameters:

listener the listener to send notifications to.

6.413.2.5 virtual void decaf::util::concurrent::PooledThread::stop () throw (lang::Exception) [virtual]

Stops the Thread, thread will complete its task if currently running one, and then die. Does not block.

Exceptions:

Exception

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/PooledThread.h`

6.414 decaf::util::concurrent::PooledThreadListener Class Reference

Abstract Listener Interface for users of `ThreadPool` (p. 2549).

#include <src/main/decaf/util/concurrent/PooledThreadListener.h> Inheritance diagram for decaf::util::concurrent::PooledThreadListener:

Public Member Functions

- virtual `~PooledThreadListener ()`
- virtual void `onTaskStarted (PooledThread *thread)=0`
Called by a pooled thread when it is about to begin executing a new task.
- virtual void `onTaskCompleted (PooledThread *thread)=0`
Called by a pooled thread when it has completed a task and is going back to waiting for another task to run.
- virtual void `onTaskException (PooledThread *thread, lang::Exception &ex)=0`
*Called by a pooled thread when it has encountered an exception while running a user task, after receiving this notification the callee should assume that the **PooledThread** (p. 2032) is now no longer running.*

6.414.1 Detailed Description

Abstract Listener Interface for users of `ThreadPool` (p. 2549). The implementor of this class receives events related to the execution and termination of threads running in the **ThreadPool** (p. 2549).

Since:

1.0

6.414.2 Constructor & Destructor Documentation

- 6.414.2.1 virtual
`decaf::util::concurrent::PooledThreadListener::~~PooledThreadListener ()`
[inline, virtual]

6.414.3 Member Function Documentation

- 6.414.3.1 virtual void `decaf::util::concurrent::PooledThreadListener::onTaskCompleted (PooledThread * thread)` [pure virtual]

Called by a pooled thread when it has completed a task and is going back to waiting for another task to run.

Parameters:

thread - Pointer the the Pooled Thread that is making this call.

Implemented in **decaf::util::concurrent::ThreadPool** (p. 2552).

6.414.3.2 virtual void decaf::util::concurrent::PooledThreadListener::onTaskException (PooledThread * *thread*, lang::Exception & *ex*) [pure virtual]

Called by a pooled thread when it has encountered an exception while running a user task, after receiving this notification the callee should assume that the **PooledThread** (p. 2032) is now no longer running.

Parameters:

thread - Pointer to the Pooled Thread that is making this call

ex - The Exception that occurred.

Implemented in **decaf::util::concurrent::ThreadPool** (p. 2552).

6.414.3.3 virtual void decaf::util::concurrent::PooledThreadListener::onTaskStarted (PooledThread * *thread*) [pure virtual]

Called by a pooled thread when it is about to begin executing a new task.

Parameters:

thread - Pointer to the Pooled Thread that is making this call

Implemented in **decaf::util::concurrent::ThreadPool** (p. 2553).

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/**PooledThreadListener.h**

6.415 decaf::net::PortUnreachableException Class Reference

#include <src/main/decaf/net/PortUnreachableException.h> Inheritance diagram for decaf::net::PortUnreachableException:

Public Member Functions

- **PortUnreachableException** () throw ()
Default Constructor.
- **PortUnreachableException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **PortUnreachableException** (const **PortUnreachableException** &ex) throw ()
Copy Constructor.
- **PortUnreachableException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **PortUnreachableException** (const std::exception *cause) throw ()
Constructor.
- **PortUnreachableException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **PortUnreachableException** * clone () const
Clones this exception.
- virtual ~**PortUnreachableException** () throw ()

6.415.1 Constructor & Destructor Documentation

6.415.1.1 decaf::net::PortUnreachableException::PortUnreachableException () throw () [inline]

Default Constructor.

6.415.1.2 decaf::net::PortUnreachableException::PortUnreachableException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.415.1.3 decaf::net::PortUnreachableException::PortUnreachableException (const PortUnreachableException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.415.1.4 decaf::net::PortUnreachableException::PortUnreachableException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.415.1.5 decaf::net::PortUnreachableException::PortUnreachableException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.415.1.6 decaf::net::PortUnreachableException::PortUnreachableException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.415.1.7 **virtual**
decaf::net::PortUnreachableException::~~PortUnreachableException ()
throw () [inline, virtual]

6.415.2 Member Function Documentation

6.415.2.1 **virtual PortUnreachableException* de-**
caf::net::PortUnreachableException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::net::SocketException** (p. 2380).

The documentation for this class was generated from the following file:

- src/main/decaf/net/**PortUnreachableException.h**

6.416 activemq::util::PrimitiveList Class Reference

List of primitives.

#include <src/main/activemq/util/PrimitiveList.h> Inheritance diagram for activemq::util::PrimitiveList:

Public Member Functions

- **PrimitiveList** ()
Default Constructor, creates an Empty list.
- virtual ~**PrimitiveList** ()
- **PrimitiveList** (const **decaf::util::List**< **PrimitiveValueNode** > &src)
Copy Constructor.
- **PrimitiveList** (const **PrimitiveList** &src)
Copy Constructor.
- std::string **toString** () const
Converts the contents into a formatted string that can be output in a Log File or other debugging tool.
- virtual bool **getBool** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Boolean value at the specified index.
- virtual void **setBool** (std::size_t index, bool value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.
- virtual unsigned char **getByte** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Byte value at the specified index.
- virtual void **setByte** (std::size_t index, unsigned char value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.
- virtual char **getChar** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Character value at the specified index.

- virtual void **setChar** (std::size_t index, char value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.
- virtual short **getShort** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Short value at the specified index.
- virtual void **setShort** (std::size_t index, short value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.
- virtual int **getInt** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Integer value at the specified index.
- virtual void **setInt** (std::size_t index, int value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.
- virtual long long **getLong** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Long value at the specified index.
- virtual void **setLong** (std::size_t index, long long value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.
- virtual float **getFloat** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Float value at the specified index.
- virtual void **setFloat** (std::size_t index, float value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.
- virtual double **getDouble** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)

Gets the Double value at the specified index.

- virtual void **setDouble** (std::size_t index, double value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

- virtual std::string **getString** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)

Gets the String value at the specified index.

- virtual void **setString** (std::size_t index, const std::string &value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

- virtual std::vector< unsigned char > **getByteArray** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException)

Gets the Byte Array value at the specified index.

- virtual void **setByteArray** (std::size_t index, const std::vector< unsigned char > &value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

6.416.1 Detailed Description

List of primitives.

6.416.2 Constructor & Destructor Documentation

6.416.2.1 activemq::util::PrimitiveList::PrimitiveList ()

Default Constructor, creates an Empty list.

6.416.2.2 virtual activemq::util::PrimitiveList::~~PrimitiveList () [virtual]

6.416.2.3 activemq::util::PrimitiveList::PrimitiveList (const decaf::util::List< PrimitiveValueNode > & src)

Copy Constructor.

Parameters:

src - the Decaf List of PrimitiveNodeValues to copy

6.416.2.4 activemq::util::PrimitiveList::PrimitiveList (const PrimitiveList & *src*)

Copy Constructor.

Parameters:

src - the **PrimitiveList** (p. 2040) to copy

6.416.3 Member Function Documentation

6.416.3.1 virtual bool activemq::util::PrimitiveList::getBool (std::size_t *index*) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Gets the Boolean value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is > **size()** (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.2 virtual unsigned char activemq::util::PrimitiveList::getBytes (std::size_t *index*) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Gets the Byte value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is > **size()** (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.3 `virtual std::vector<unsigned char> activemq::util::PrimitiveList::getByteArray (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Byte Array value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is > `size()` (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.4 `virtual char activemq::util::PrimitiveList::getChar (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Character value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is > `size()` (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.5 `virtual double activemq::util::PrimitiveList::getDouble (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Double value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is > **size()** (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.6 virtual float activemq::util::PrimitiveList::getFloat (std::size_t *index*)
const throw (decaf::lang::exceptions::IndexOutOfBoundsException,
decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Gets the Float value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is > **size()** (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.7 virtual int activemq::util::PrimitiveList::getInt (std::size_t *index*)
const throw (decaf::lang::exceptions::IndexOutOfBoundsException,
decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Gets the Integer value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is > **size()** (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.8 virtual long long activemq::util::PrimitiveList::getLong (std::size_t *index*)
const throw (decaf::lang::exceptions::IndexOutOfBoundsException,
decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Gets the Long value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is $> \text{size}()$ (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.9 `virtual short activemq::util::PrimitiveList::getShort (std::size_t index)
const throw (decaf::lang::exceptions::IndexOutOfBoundsException,
decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Short value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is $> \text{size}()$ (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.10 `virtual std::string activemq::util::PrimitiveList::getString (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException,
decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the String value at the specified index.

Parameters:

index - index to get value from

Returns:

value contained at the given index

Exceptions:

IndexOutOfBoundsException if index is $> \text{size}()$ (p. 2428)

UnsupportedOperationException if the type at index is not of the type that this method is to return or can convert to.

6.416.3.11 `virtual void activemq::util::PrimitiveList::setBool (std::size_t index,
bool value) throw (decaf::lang::exceptions::IndexOutOfBoundsException
) [virtual]`

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.12 `virtual void activemq::util::PrimitiveList::setByte
(std::size_t index, unsigned char value) throw (
decaf::lang::exceptions::IndexOutOfBoundsException) [virtual]`

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.13 `virtual void activemq::util::PrimitiveList::setByteArray (std::size_t
index, const std::vector< unsigned char > & value) throw (
decaf::lang::exceptions::IndexOutOfBoundsException) [virtual]`

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.14 `virtual void activemq::util::PrimitiveList::setChar (std::size_t index, char value) throw (decaf::lang::exceptions::IndexOutOfBoundsException) [virtual]`

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.15 `virtual void activemq::util::PrimitiveList::setDouble (std::size_t index, double value) throw (decaf::lang::exceptions::IndexOutOfBoundsException) [virtual]`

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.16 `virtual void activemq::util::PrimitiveList::setFloat (std::size_t index, float value) throw (decaf::lang::exceptions::IndexOutOfBoundsException) [virtual]`

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.17 `virtual void activemq::util::PrimitiveList::setInt (std::size_t index, int value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)`
[virtual]

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.18 `virtual void activemq::util::PrimitiveList::setLong (std::size_t index, long long value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)` [virtual]

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.19 `virtual void activemq::util::PrimitiveList::setShort (std::size_t index, short value) throw (decaf::lang::exceptions::IndexOutOfBoundsException)`
[virtual]

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if index > size() (p. 2428).

6.416.3.20 `virtual void activemq::util::PrimitiveList::setString
(std::size_t index, const std::string & value) throw (
decaf::lang::exceptions::IndexOutOfBoundsException)` [virtual]

Sets the value at the given index to the new value specified, this method overwrites any data that was previously at the index given, but does not insert a new element if the index is greater than the size of the list.

Parameters:

index - location to set in the list

value - the new value to assign to the element at index

Exceptions:

IndexOutOfBoundsException if `index > size()` (p. 2428).

6.416.3.21 `std::string activemq::util::PrimitiveList::toString () const`

Converts the contents into a formatted string that can be output in a Log File or other debugging tool.

Returns:

formatted String of all elements in the list.

The documentation for this class was generated from the following file:

- `src/main/activemq/util/PrimitiveList.h`

6.417 activemq::util::PrimitiveMap Class Reference

Map of named primitives.

#include <src/main/activemq/util/PrimitiveMap.h> Inheritance diagram for activemq::util::PrimitiveMap:

Public Member Functions

- **PrimitiveMap** ()
Default Constructor, creates an empty map.
- virtual **~PrimitiveMap** ()
- **PrimitiveMap** (const **decaf::util::Map**< std::string, **PrimitiveValueNode** > &source)
Copy Constructor.
- **PrimitiveMap** (const **PrimitiveMap** &source)
Copy Constructor.
- std::string **toString** () const
Converts the contents into a formatted string that can be output in a Log File or other debugging tool.
- virtual bool **getBool** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Boolean value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.
- virtual void **setBool** (const std::string &key, bool value)
Sets the value at key to the specified type.
- virtual unsigned char **getByte** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Byte value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.
- virtual void **setByte** (const std::string &key, unsigned char value)
Sets the value at key to the specified type.
- virtual char **getChar** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)
Gets the Character value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.
- virtual void **setChar** (const std::string &key, char value)

Sets the value at key to the specified type.

- virtual short **getShort** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, de-
caf::lang::exceptions::UnsupportedOperationException)

Gets the Short value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

- virtual void **setShort** (const std::string &key, short value)

Sets the value at key to the specified type.

- virtual int **getInt** (const std::string &key) const throw (de-
caf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)

Gets the Integer value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

- virtual void **setInt** (const std::string &key, int value)

Sets the value at key to the specified type.

- virtual long long **getLong** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, de-
caf::lang::exceptions::UnsupportedOperationException)

Gets the Long value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

- virtual void **setLong** (const std::string &key, long long value)

Sets the value at key to the specified type.

- virtual float **getFloat** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, de-
caf::lang::exceptions::UnsupportedOperationException)

Gets the Float value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

- virtual void **setFloat** (const std::string &key, float value)

Sets the value at key to the specified type.

- virtual double **getDouble** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, de-
caf::lang::exceptions::UnsupportedOperationException)

Gets the Double value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

- virtual void **setDouble** (const std::string &key, double value)

Sets the value at key to the specified type.

- virtual std::string **getString** (const std::string &key) const
throw (decaf::lang::exceptions::NoSuchElementException, de-
caf::lang::exceptions::UnsupportedOperationException)

Gets the String value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

- virtual void **setString** (const std::string &key, const std::string &value)

Sets the value at key to the specified type.

- virtual std::vector< unsigned char > **getByteArray** (const std::string &key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)

Gets the Byte Array value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

- virtual void **setByteArray** (const std::string &key, const std::vector< unsigned char > &value)

Sets the value at key to the specified type.

6.417.1 Detailed Description

Map of named primitives.

6.417.2 Constructor & Destructor Documentation

6.417.2.1 activemq::util::PrimitiveMap::PrimitiveMap ()

Default Constructor, creates an empty map.

6.417.2.2 virtual activemq::util::PrimitiveMap::~~PrimitiveMap () [virtual]

6.417.2.3 activemq::util::PrimitiveMap::PrimitiveMap (const decaf::util::Map< std::string, PrimitiveValueNode > & source)

Copy Constructor.

Parameters:

source The Decaf Library Map instance whose elements will be copied into this Map.

6.417.2.4 activemq::util::PrimitiveMap::PrimitiveMap (const PrimitiveMap & source)

Copy Constructor.

Parameters:

source The **PrimitiveMap** (p. 2051) whose elements will be copied into this Map.

6.417.3 Member Function Documentation

6.417.3.1 `virtual bool activemq::util::PrimitiveMap::getBool (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Boolean value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at key in the type requested.

Exceptions:

NoSuchElementException if key is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.2 `virtual unsigned char activemq::util::PrimitiveMap::getBytes (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Byte value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at key in the type requested.

Exceptions:

NoSuchElementException if key is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.3 `virtual std::vector<unsigned char> activemq::util::PrimitiveMap::getBytesArray (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Byte Array value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type `NoSuchElementException` is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at *key* in the type requested.

Exceptions:

NoSuchElementException if *key* is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.4 `virtual char activemq::util::PrimitiveMap::getChar (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Character value at the given *key*, if the *key* is not in the map or cannot be returned as the requested value then an exception of type *NoSuchElementException* is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at *key* in the type requested.

Exceptions:

NoSuchElementException if *key* is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.5 `virtual double activemq::util::PrimitiveMap::getDouble (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Double value at the given *key*, if the *key* is not in the map or cannot be returned as the requested value then an exception of type *NoSuchElementException* is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at *key* in the type requested.

Exceptions:

NoSuchElementException if *key* is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.6 `virtual float activemq::util::PrimitiveMap::getFloat (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Float value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at key in the type requested.

Exceptions:

NoSuchElementException if key is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.7 `virtual int activemq::util::PrimitiveMap::getInt (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Integer value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at key in the type requested.

Exceptions:

NoSuchElementException if key is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.8 `virtual long long activemq::util::PrimitiveMap::getLong (const std::string & key) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Gets the Long value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at key in the type requested.

Exceptions:

NoSuchElementException if key is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.9 virtual short activemq::util::PrimitiveMap::getShort (const std::string & *key*) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Gets the Short value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at key in the type requested.

Exceptions:

NoSuchElementException if key is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.10 virtual std::string activemq::util::PrimitiveMap::getString (const std::string & *key*) const throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Gets the String value at the given key, if the key is not in the map or cannot be returned as the requested value then an exception of type NoSuchElementException is thrown.

Parameters:

key - the location to return the value from.

Returns:

the value at key in the type requested.

Exceptions:

NoSuchElementException if key is not in the map.

UnsupportedOperationException if the value cannot be converted to the type this method returns

6.417.3.11 virtual void activemq::util::PrimitiveMap::setBool (const std::string & *key*, bool *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.12 virtual void activemq::util::PrimitiveMap::setByte (const std::string & *key*, unsigned char *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.13 virtual void activemq::util::PrimitiveMap::setByteArray (const std::string & *key*, const std::vector< unsigned char > & *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.14 virtual void activemq::util::PrimitiveMap::setChar (const std::string & *key*, char *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.15 virtual void activemq::util::PrimitiveMap::setDouble (const std::string & *key*, double *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.16 virtual void activemq::util::PrimitiveMap::setFloat (const std::string & *key*, float *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.17 virtual void activemq::util::PrimitiveMap::setInt (const std::string & *key*, int *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.18 virtual void activemq::util::PrimitiveMap::setLong (const std::string & *key*, long long *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.19 virtual void activemq::util::PrimitiveMap::setShort (const std::string & *key*, short *value*) [virtual]

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.20 `virtual void activemq::util::PrimitiveMap::setString (const std::string & key, const std::string & value) [virtual]`

Sets the value at key to the specified type. Overwrites any data that was previously at this key or inserts a new element at key.

Parameters:

key - the map key to set or insert.

value - the new value to set at the key location.

6.417.3.21 `std::string activemq::util::PrimitiveMap::toString () const`

Converts the contents into a formatted string that can be output in a Log File or other debugging tool.

Returns:

formatted String of all elements in the map.

The documentation for this class was generated from the following file:

- `src/main/activemq/util/PrimitiveMap.h`

6.418 activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller Class Reference

This class wraps the functionality needed to **marshal** (p. 76) a primitive map to the Openwire Format's expectation of what the map looks like on the wire.

```
#include <src/main/activemq/wireformat/openwire/marshal/PrimitiveTypesMarshaller.h>
```

Public Member Functions

- **PrimitiveTypesMarshaller** ()
- virtual **~PrimitiveTypesMarshaller** ()

Static Public Member Functions

- static void **marshal** (const **util::PrimitiveMap** *map, std::vector< unsigned char > &dest) throw (decaf::lang::Exception)
Static Marshal of a primitive map object.
- static void **unmarshal** (**util::PrimitiveMap** *map, const std::vector< unsigned char > &src) throw (decaf::lang::Exception)
Static Map Unmarshaler, takes an array of bytes and returns a new instance of a PrimitiveMap object.
- static void **marshal** (const **util::PrimitiveList** *list, std::vector< unsigned char > &dest) throw (decaf::lang::Exception)
Static Marshal of a primitive map object.
- static void **unmarshal** (**util::PrimitiveList** *list, const std::vector< unsigned char > &src) throw (decaf::lang::Exception)
Static Map Unmarshaler, takes an array of bytes and returns a new instance of a PrimitiveMap object.

Static Protected Member Functions

- static void **marshalPrimitiveMap** (decaf::io::DataOutputStream &dataOut, const decaf::util::Map< std::string, util::PrimitiveValueNode > &map) throw (decaf::io::IOException)
Marshal a Map of Primitives to the given OutputStream, can result in recursive calls to this method if the map contains maps of maps.
- static void **marshalPrimitiveList** (decaf::io::DataOutputStream &dataOut, const decaf::util::List< util::PrimitiveValueNode > &list) throw (decaf::io::IOException)
Marshal a List of Primitives to the given OutputStream, can result in recursive calls to this method if the list contains lists of lists.
- static void **marshalPrimitive** (decaf::io::DataOutputStream &dataOut, const util::PrimitiveValueNode &value) throw (decaf::io::IOException)
Used to Marshal the Primitive types out on the Wire.

- static void **unmarshalPrimitiveMap** (decaf::io::DataInputStream &dataIn, util::PrimitiveMap &map) throw (decaf::io::IOException)

Unmarshals a Map of Primitives from the given InputStream, can result in recursive calls to this method if the map contains maps of maps.

- static void **unmarshalPrimitiveList** (decaf::io::DataInputStream &dataIn, decaf::util::StIList< util::PrimitiveValueNode > &list) throw (decaf::io::IOException)

Unmarshals a List of Primitives from the given InputStream, can result in recursive calls to this method if the list contains lists of lists.

- static util::PrimitiveValueNode **unmarshalPrimitive** (decaf::io::DataInputStream &dataIn) throw (decaf::io::IOException)

Unmarshals a Primitive Type from the stream, and returns it as a value Node.

6.418.1 Detailed Description

This class wraps the functionality needed to **marshal** (p. 76) a primitive map to the Openwire Format's expectation of what the map looks like on the wire.

6.418.2 Constructor & Destructor Documentation

6.418.2.1 `activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::PrimitiveTypesMarshaller()` [inline]

6.418.2.2 `virtual activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::~~PrimitiveTypesMarshaller()` [inline, virtual]

6.418.3 Member Function Documentation

6.418.3.1 `static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::marshal(const util::PrimitiveList * list, std::vector< unsigned char > & dest) throw (decaf::lang::Exception)` [static]

Static Marshal of a primitive map object.

Parameters:

list The list object to Marshal

dest Reference to a byte array to house the data

Exceptions:

Exception

6.418.3.2 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::marshal (const util::PrimitiveMap * *map*, std::vector< unsigned char > & *dest*) throw (decaf::lang::Exception) [static]

Static Marshal of a primitive map object.

Parameters:

map Map to Marshal.

dest Reference to a byte array to house the data.

Exceptions:

Exception

6.418.3.3 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::marshalPrimitive (decaf::io::DataOutputStream & *dataOut*, const util::PrimitiveValueNode & *value*) throw (decaf::io::IOException) [static, protected]

Used to Marshal the Primitive types out on the Wire.

Parameters:

dataOut - the DataOutputStream to write to

value - the ValueNode to write.

Exceptions:

IOException

6.418.3.4 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::marshalPrimitiveList (decaf::io::DataOutputStream & *dataOut*, const decaf::util::List< util::PrimitiveValueNode > & *list*) throw (decaf::io::IOException) [static, protected]

Marshal a List of Primitives to the given OutputStream, can result in recursive calls to this method if the list contains lists of lists.

Parameters:

dataOut - the DataOutputStream to write to

list - the ValueNode to write.

Exceptions:

IOException

6.418.3.5 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::marshalPrimitiveMap (decaf::io::DataOutputStream & *dataOut*, const decaf::util::Map< std::string, util::PrimitiveValueNode > & *map*) throw (decaf::io::IOException) [static, protected]

Marshal a Map of Primitives to the given OutputStream, can result in recursive calls to this method if the map contains maps of maps.

Parameters:

dataOut - the DataOutputStream to write to

map - the ValueNode to write.

Exceptions:

IOException

6.418.3.6 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::unmarshal (util::PrimitiveList * *list*, const std::vector< unsigned char > & *src*) throw (decaf::lang::Exception) [static]

Static Map Unmarshaler, takes an array of bytes and returns a new instance of a PrimitiveMap object. Caller owns the pointer.

Parameters:

list The list object to Un-marshal

src Reference to a byte array to read data from.

Exceptions:

Exception

6.418.3.7 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::unmarshal (util::PrimitiveMap * *map*, const std::vector< unsigned char > & *src*) throw (decaf::lang::Exception) [static]

Static Map Unmarshaler, takes an array of bytes and returns a new instance of a PrimitiveMap object. Caller owns the pointer.

Parameters:

map Map to Unmarshal into

src Reference to a byte array to read data from.

Exceptions:

Exception

6.418.3.8 static util::PrimitiveValueNode activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::unmarshalPrimitive (decaf::io::DataInputStream & *dataIn*) throw (decaf::io::IOException)
[static, protected]

Unmarshals a Primitive Type from the stream, and returns it as a value Node.

Parameters:

dataIn - DataInputStream to read from.

Returns:

a PrimitiveValueNode containing the data.

Exceptions:

IOException

6.418.3.9 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::unmarshalPrimitiveList (decaf::io::DataInputStream & *dataIn*, decaf::util::StlList< util::PrimitiveValueNode > & *list*) throw (decaf::io::IOException)
[static, protected]

Unmarshals a List of Primitives from the given InputStream, can result in recursive calls to this method if the list contains lists of lists.

Parameters:

dataIn - DataInputStream to read from.

list - the ValueNode to write.

Exceptions:

IOException

6.418.3.10 static void activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller::unmarshalPrimitiveMap (decaf::io::DataInputStream & *dataIn*, util::PrimitiveMap & *map*)
throw (decaf::io::IOException) [static, protected]

Unmarshals a Map of Primitives from the given InputStream, can result in recursive calls to this method if the map contains maps of maps.

Parameters:

dataIn - DataInputStream to read from.

map - the map to fill with data.

Exceptions:

IOException

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/**PrimitiveTypesMarshaller.h**

6.419 activemq::util::PrimitiveValueNode::PrimitiveValue Union Reference

Define a union type comprised of the various types.

```
#include <src/main/activemq/util/PrimitiveValueNode.h>
```

Data Fields

- bool **boolValue**
- unsigned char **byteValue**
- char **charValue**
- short **shortValue**
- int **intValue**
- long long **longValue**
- double **doubleValue**
- float **floatValue**
- std::string * **stringValue**
- std::vector< unsigned char > * **byteArrayValue**
- decaf::util::List< PrimitiveValueNode > * **listValue**
- decaf::util::Map< std::string, PrimitiveValueNode > * **mapValue**

6.419.1 Detailed Description

Define a union type comprised of the various types.

6.419.2 Field Documentation

- 6.419.2.1 `bool activemq::util::PrimitiveValueNode::PrimitiveValue::boolValue`
- 6.419.2.2 `std::vector<unsigned char>* activemq::util::PrimitiveValueNode::PrimitiveValue::byteArrayValue`
- 6.419.2.3 `unsigned char activemq::util::PrimitiveValueNode::PrimitiveValue::byteValue`
- 6.419.2.4 `char activemq::util::PrimitiveValueNode::PrimitiveValue::charValue`
- 6.419.2.5 `double activemq::util::PrimitiveValueNode::PrimitiveValue::doubleValue`
- 6.419.2.6 `float activemq::util::PrimitiveValueNode::PrimitiveValue::floatValue`
- 6.419.2.7 `int activemq::util::PrimitiveValueNode::PrimitiveValue::intValue`
- 6.419.2.8 `decaf::util::List<PrimitiveValueNode>* activemq::util::PrimitiveValueNode::PrimitiveValue::listValue`
- 6.419.2.9 `long long activemq::util::PrimitiveValueNode::PrimitiveValue::longValue`
- 6.419.2.10 `decaf::util::Map<std::string, PrimitiveValueNode>* activemq::util::PrimitiveValueNode::PrimitiveValue::mapValue`
- 6.419.2.11 `short activemq::util::PrimitiveValueNode::PrimitiveValue::shortValue`
- 6.419.2.12 `std::string* activemq::util::PrimitiveValueNode::PrimitiveValue::stringValue`

The documentation for this union was generated from the following file:

- `src/main/activemq/util/PrimitiveValueNode.h`

6.420 activemq::util::PrimitiveValueConverter Class Reference

Class controls the conversion of data contained in a **PrimitiveValueNode** (p.2070) from one type to another.

```
#include <src/main/activemq/util/PrimitiveValueConverter.h>
```

Public Member Functions

- **PrimitiveValueConverter** ()
- virtual **~PrimitiveValueConverter** ()
- template<typename TO >
TO **convert** (const **PrimitiveValueNode** &value) const throw (decaf::lang::exceptions::UnsupportedOperationException)

6.420.1 Detailed Description

Class controls the conversion of data contained in a **PrimitiveValueNode** (p.2070) from one type to another. If the conversion is supported then calling the convert method will throw an UnsupportedOperationException to indicate that its not possible to perform the conversion.

This class is used to implement the rules of conversion on CMS Message properties, the following conversion table must be implemented. A value written as the row type can be read in the column type.

	boolean	byte	short	int	long	float	double	String
boolean	X X							
byte		X X X X X						
short			X X X X					
int				X X X				
long					X X			
float						X X X		
double							X X X	
String								X X X X X X X

Since:

3.0

6.420.2 Constructor & Destructor Documentation

6.420.2.1 **activemq::util::PrimitiveValueConverter::PrimitiveValueConverter** ()
[inline]

6.420.2.2 **virtual**
activemq::util::PrimitiveValueConverter::~~PrimitiveValueConverter ()
[inline, virtual]

6.420.3 Member Function Documentation

6.420.3.1 **std::vector< unsigned char > activemq::util::PrimitiveValueConverter::convert** (const **PrimitiveValueNode** & *value*) const throw (decaf::lang::exceptions::UnsupportedOperationException)
[inline]

The documentation for this class was generated from the following file:

- `src/main/activemq/util/PrimitiveValueConverter.h`

6.421 activemq::util::PrimitiveValueNode Class Reference

Class that wraps around a single value of one of the many types.

```
#include <src/main/activemq/util/PrimitiveValueNode.h>
```

Data Structures

- union **PrimitiveValue**

Define a union type comprised of the various types.

Public Types

- enum **PrimitiveType** {
 NULL_TYPE = 0, **BOOLEAN_TYPE** = 1, **BYTE_TYPE** = 2, **CHAR_TYPE** = 3,
 SHORT_TYPE = 4, **INTEGER_TYPE** = 5, **LONG_TYPE** = 6, **DOUBLE_TYPE** = 7,
 FLOAT_TYPE = 8, **STRING_TYPE** = 9, **BYTE_ARRAY_TYPE** = 10, **MAP_TYPE** = 11,
 LIST_TYPE = 12, **BIG_STRING_TYPE** = 13 }

Enumeration for the various primitive types.

Public Member Functions

- **PrimitiveValueNode** ()
Default Constructor, creates a value of the NULL_TYPE.
- **PrimitiveValueNode** (bool value)
Boolean Value Constructor.
- **PrimitiveValueNode** (unsigned char value)
Byte Value Constructor.
- **PrimitiveValueNode** (char value)
Char Value Constructor.
- **PrimitiveValueNode** (short value)
Short Value Constructor.
- **PrimitiveValueNode** (int value)
Int Value Constructor.
- **PrimitiveValueNode** (long long value)
Long Value Constructor.
- **PrimitiveValueNode** (float value)

Float Value Constructor.

- **PrimitiveValueNode** (double value)
Double Value Constructor.
- **PrimitiveValueNode** (const char *value)
String Value Constructor.
- **PrimitiveValueNode** (const std::string &value)
String Value Constructor.
- **PrimitiveValueNode** (const std::vector< unsigned char > &value)
Byte Array Value Constructor.
- **PrimitiveValueNode** (const decaf::util::List< PrimitiveValueNode > &value)
Primitive List Constructor.
- **PrimitiveValueNode** (const decaf::util::Map< std::string, PrimitiveValueNode > &value)
Primitive Map Value Constructor.
- **PrimitiveValueNode** (const PrimitiveValueNode &node)
Copy constructor.
- **~PrimitiveValueNode** ()
- **PrimitiveValueNode & operator=** (const PrimitiveValueNode &node)
Assignment operator, copies the data from the other node.
- **bool operator==** (const PrimitiveValueNode &node) const
Comparison Operator, compares this node to the other node.
- **PrimitiveType getType** () const
Gets the Value Type of this type wrapper.
- **PrimitiveValue getValue** () const
Gets the internal Primitive Value object from this wrapper.
- **void setValue** (const PrimitiveValue &value, PrimitiveType valueType)
Sets the internal PrimitiveVale object to the new value along with the tag for the type that it consists of.
- **void clear** ()
Clears the value from this wrapper converting it back to a blank NULL_ TYPE value.
- **void setBool** (bool value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- **bool getBool** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Boolean value of this Node.

- void **setByte** (unsigned char value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- unsigned char **getByte** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Byte value of this Node.
- void **setChar** (char value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- char **getChar** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Character value of this Node.
- void **setShort** (short value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- short **getShort** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Short value of this Node.
- void **setInt** (int value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- int **getInt** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Integer value of this Node.
- void **setLong** (long long value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- long long **getLong** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Long value of this Node.
- void **setFloat** (float value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- float **getFloat** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Float value of this Node.
- void **setDouble** (double value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- double **getDouble** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Double value of this Node.

- void **setString** (const std::string &value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- std::string **getString** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the String value of this Node.
- void **setByteArray** (const std::vector< unsigned char > &value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- std::vector< unsigned char > **getByteArray** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Byte Array value of this Node.
- void **setList** (const decaf::util::List< PrimitiveValueNode > &value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- const decaf::util::List< PrimitiveValueNode > & **getList** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Primitive List value of this Node.
- void **setMap** (const decaf::util::Map< std::string, PrimitiveValueNode > &value)
Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.
- const decaf::util::Map< std::string, PrimitiveValueNode > & **getMap** () const throw (decaf::lang::exceptions::NoSuchElementException)
Gets the Primitive Map value of this Node.
- std::string **toString** () const
Creates a string representation of this value.

6.421.1 Detailed Description

Class that wraps around a single value of one of the many types. Manages memory for complex types, such as strings. Note: the destructor was left non-virtual so no virtual table will be created. This probably isn't necessary, but will avoid needless memory allocation. Since we'll never extend this class, not having a virtual destructor isn't a concern.

6.421.2 Member Enumeration Documentation

6.421.2.1 enum activemq::util::PrimitiveValueNode::PrimitiveType

Enumeration for the various primitive types.

Enumerator:

NULL_ **TYPE**

BOOLEAN_TYPE
BYTE_TYPE
CHAR_TYPE
SHORT_TYPE
INTEGER_TYPE
LONG_TYPE
DOUBLE_TYPE
FLOAT_TYPE
STRING_TYPE
BYTE_ARRAY_TYPE
MAP_TYPE
LIST_TYPE
BIG_STRING_TYPE

6.421.3 Constructor & Destructor Documentation

6.421.3.1 `activemq::util::PrimitiveValueNode::PrimitiveValueNode ()`

Default Constructor, creates a value of the `NULL_TYPE`.

6.421.3.2 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (bool value)`

Boolean Value Constructor.

Parameters:

value - the new value to store.

6.421.3.3 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (unsigned char value)`

Byte Value Constructor.

Parameters:

value - the new value to store.

6.421.3.4 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (char value)`

Char Value Constructor.

Parameters:

value - the new value to store.

6.421.3.5 activemq::util::PrimitiveValueNode::PrimitiveValueNode (short *value*)

Short Value Constructor.

Parameters:

value - the new value to store.

6.421.3.6 activemq::util::PrimitiveValueNode::PrimitiveValueNode (int *value*)

Int Value Constructor.

Parameters:

value - the new value to store.

6.421.3.7 activemq::util::PrimitiveValueNode::PrimitiveValueNode (long long *value*)

Long Value Constructor.

Parameters:

value - the new value to store.

6.421.3.8 activemq::util::PrimitiveValueNode::PrimitiveValueNode (float *value*)

Float Value Constructor.

Parameters:

value - the new value to store.

6.421.3.9 activemq::util::PrimitiveValueNode::PrimitiveValueNode (double *value*)

Double Value Constructor.

Parameters:

value - the new value to store.

6.421.3.10 activemq::util::PrimitiveValueNode::PrimitiveValueNode (const char * *value*)

String Value Constructor.

Parameters:

value - the new value to store.

6.421.3.11 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (const std::string & value)`

String Value Constructor.

Parameters:

value - the new value to store.

6.421.3.12 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (const std::vector< unsigned char > & value)`

Byte Array Value Constructor.

Parameters:

value - the new value to store.

6.421.3.13 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (const decaf::util::List< PrimitiveValueNode > & value)`

Primitive List Constructor.

Parameters:

value - the new value to store.

6.421.3.14 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (const decaf::util::Map< std::string, PrimitiveValueNode > & value)`

Primitive Map Value Constructor.

Parameters:

value - the new value to store.

6.421.3.15 `activemq::util::PrimitiveValueNode::PrimitiveValueNode (const PrimitiveValueNode & node)`

Copy constructor.

Parameters:

node The instance of another node to copy to this one.

6.421.3.16 `activemq::util::PrimitiveValueNode::~~PrimitiveValueNode () [inline]`

6.421.4 Member Function Documentation

6.421.4.1 `void activemq::util::PrimitiveValueNode::clear ()`

Clears the value from this wrapper converting it back to a blank NULL_TYPE value.

6.421.4.2 `bool activemq::util::PrimitiveValueNode::getBool () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the Boolean value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.3 `unsigned char activemq::util::PrimitiveValueNode::getBytes () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the Byte value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.4 `std::vector<unsigned char> activemq::util::PrimitiveValueNode::getBytesArray () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the Byte Array value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.5 `char activemq::util::PrimitiveValueNode::getChar () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the Character value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.6 double activemq::util::PrimitiveValueNode::getDouble () const throw (decaf::lang::exceptions::NoSuchElementException)

Gets the Double value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.7 float activemq::util::PrimitiveValueNode::getFloat () const throw (decaf::lang::exceptions::NoSuchElementException)

Gets the Float value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.8 int activemq::util::PrimitiveValueNode::getInt () const throw (decaf::lang::exceptions::NoSuchElementException)

Gets the Integer value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.9 const decaf::util::List<PrimitiveValueNode>& activemq::util::PrimitiveValueNode::getList () const throw (decaf::lang::exceptions::NoSuchElementException)

Gets the Primitive List value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.10 `long long activemq::util::PrimitiveValueNode::getLong () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the Long value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.11 `const decaf::util::Map<std::string, PrimitiveValueNode>& activemq::util::PrimitiveValueNode::getMap () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the Primitive Map value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.12 `short activemq::util::PrimitiveValueNode::getShort () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the Short value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.13 `std::string activemq::util::PrimitiveValueNode::getString () const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets the String value of this Node.

Returns:

value contained at the given index

Exceptions:

NoSuchElementException this node cannot be returned as the requested type.

6.421.4.14 PrimitiveType activemq::util::PrimitiveValueNode::getType () const
[inline]

Gets the Value Type of this type wrapper.

Returns:

the PrimitiveType value for this wrapper.

6.421.4.15 PrimitiveValue activemq::util::PrimitiveValueNode::getValue () const
[inline]

Gets the internal Primitive Value object from this wrapper.

Returns:

a copy of the contained **PrimitiveValue** (p. 2066)

6.421.4.16 PrimitiveValueNode& activemq::util::PrimitiveValueNode::operator=
(const PrimitiveValueNode & node)

Assignment operator, copies the data from the other node.

Parameters:

node The instance of another node to copy to this one.

6.421.4.17 bool activemq::util::PrimitiveValueNode::operator== (const
PrimitiveValueNode & node) const

Comparison Operator, compares this node to the other node.

Returns:

true if the values are the same false otherwise.

6.421.4.18 void activemq::util::PrimitiveValueNode::setBool (bool value)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.19 void activemq::util::PrimitiveValueNode::setByte (unsigned char value)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.20 void activemq::util::PrimitiveValueNode::setByteArray (const std::vector< unsigned char > & *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.21 void activemq::util::PrimitiveValueNode::setChar (char *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.22 void activemq::util::PrimitiveValueNode::setDouble (double *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.23 void activemq::util::PrimitiveValueNode::setFloat (float *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.24 void activemq::util::PrimitiveValueNode::setInt (int *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.25 void activemq::util::PrimitiveValueNode::setList (const decaf::util::List< PrimitiveValueNode > & *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.26 void activemq::util::PrimitiveValueNode::setLong (long long *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.27 void activemq::util::PrimitiveValueNode::setMap (const decaf::util::Map< std::string, PrimitiveValueNode > & *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.28 void activemq::util::PrimitiveValueNode::setShort (short *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.29 void activemq::util::PrimitiveValueNode::setString (const std::string & *value*)

Sets the value of this value node to the new value specified, this method overwrites any data that was previously at the index given.

Parameters:

value - the new value to assign to the element at index

6.421.4.30 void activemq::util::PrimitiveValueNode::setValue (const PrimitiveValue & *value*, PrimitiveType *valueType*)

Sets the internal PrimitiveVale object to the new value along with the tag for the type that it consists of.

Parameters:

value The value to set as the value contained in this Node.

valueType The type of the value being set into this one.

6.421.4.31 `std::string activemq::util::PrimitiveValueNode::toString () const`

Creates a string representation of this value.

Returns:

string value of this type wrapper.

The documentation for this class was generated from the following file:

- `src/main/activemq/util/PrimitiveValueNode.h`

6.422 decaf::security::Principal Class Reference

Base interface for a principal, which can represent an individual or organization.

```
#include <src/main/decaf/security/Principal.h>
Inheritance diagram for decaf::security::Principal:
```

Public Member Functions

- virtual **~Principal** ()
- virtual bool **equals** (const **Principal** &another) const =0
Compares two principals to see if they are the same.
- virtual std::string **getName** () const =0
Provides the name of this principal.

6.422.1 Detailed Description

Base interface for a principal, which can represent an individual or organization.

6.422.2 Constructor & Destructor Documentation

6.422.2.1 virtual decaf::security::Principal::~~Principal () [inline, virtual]

6.422.3 Member Function Documentation

6.422.3.1 virtual bool decaf::security::Principal::equals (const **Principal** & *another*) const [pure virtual]

Compares two principals to see if they are the same.

Parameters:

another A principal to be tested for equality to this one.

Returns:

true if the given principal is equivalent to this one.

6.422.3.2 virtual std::string decaf::security::Principal::getName () const [pure virtual]

Provides the name of this principal.

Returns:

the name of this principal.

Implemented in **decaf::security::auth::x500::X500Principal** (p. 2727).

The documentation for this class was generated from the following file:

- src/main/decaf/security/**Principal.h**

6.423 activemq::commands::ProducerAck Class Reference

#include <src/main/activemq/commands/ProducerAck.h> Inheritance diagram for activemq::commands::ProducerAck:

Public Member Functions

- **ProducerAck** ()
- virtual **~ProducerAck** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ProducerAck * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ProducerId** > & **getProducerId** () const
- virtual **Pointer**< **ProducerId** > & **getProducerId** ()
- virtual void **setProducerId** (const **Pointer**< **ProducerId** > &producerId)
- virtual int **getSize** () const
- virtual void **setSize** (int size)
- virtual bool **isProducerAck** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor)
throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_PRODUCERACK** = 19

Protected Member Functions

- **ProducerAck** (const **ProducerAck** &)
- **ProducerAck** & **operator=** (const **ProducerAck** &)

Protected Attributes

- `Pointer< ProducerId > producerId`
- `int size`

6.423.1 Constructor & Destructor Documentation

6.423.1.1 `activemq::commands::ProducerAck::ProducerAck (const ProducerAck &) [inline, protected]`

6.423.1.2 `activemq::commands::ProducerAck::ProducerAck ()`

6.423.1.3 `virtual activemq::commands::ProducerAck::~~ProducerAck () [virtual]`

6.423.2 Member Function Documentation

6.423.2.1 `virtual ProducerAck* activemq::commands::ProducerAck::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.423.2.2 `virtual void activemq::commands::ProducerAck::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.423.2.3 `virtual bool activemq::commands::ProducerAck::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.423.2.4 `virtual unsigned char activemq::commands::ProducerAck::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

6.423.2.5 `virtual Pointer<ProducerId>& activemq::commands::ProducerAck::getProducerId () [virtual]`

6.423.2.6 `virtual const Pointer<ProducerId>& activemq::commands::ProducerAck::getProducerId () const [virtual]`

6.423.2.7 `virtual int activemq::commands::ProducerAck::getSize () const [virtual]`

6.423.2.8 `virtual bool activemq::commands::ProducerAck::isProducerAck () const [inline, virtual]`

Returns:

an answer of true to the **isProducerAck()** (p. 2088) query.

Reimplemented from **activemq::commands::BaseCommand** (p. 511).

6.423.2.9 `ProducerAck& activemq::commands::ProducerAck::operator= (const ProducerAck &) [inline, protected]`

6.423.2.10 `virtual void activemq::commands::ProducerAck::setProducerId (const Pointer< ProducerId > & producerId) [virtual]`

6.423.2.11 `virtual void activemq::commands::ProducerAck::setSize (int size) [virtual]`

6.423.2.12 `virtual std::string activemq::commands::ProducerAck::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.423.2.13 `virtual Pointer<Command> activemq::commands::ProducerAck::visit
(activemq::state::CommandVisitor * visitor) throw (
exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.423.3 Field Documentation

6.423.3.1 `const unsigned char activemq::commands::ProducerAck::ID_-
PRODUCERACK = 19` [static]

6.423.3.2 `Pointer<ProducerId> activemq::commands::ProducerAck::producerId`
[protected]

6.423.3.3 `int activemq::commands::ProducerAck::size` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ProducerAck.h`

6.424 activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2090).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ProducerAckMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller:

Public Member Functions

- **ProducerAckMarshaller** ()
- virtual **~ProducerAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.424.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2090). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.424.2 Constructor & Destructor Documentation

6.424.2.1 `activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::ProducerAckMarshaller()` `[inline]`

6.424.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::~~ProducerAckMarshaller()` `[inline, virtual]`

6.424.3 Member Function Documentation

6.424.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.424.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.424.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.424.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.424.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.424.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.424.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**ProducerAckMarshaller.h**

6.425 activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2094).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ProducerAckMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller:

Public Member Functions

- **ProducerAckMarshaller** ()
- virtual **~ProducerAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.425.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2094). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.425.2 Constructor & Destructor Documentation

6.425.2.1 `activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::ProducerAckMarshaller()` [inline]

6.425.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::~~ProducerAckMarshaller()` [inline, virtual]

6.425.3 Member Function Documentation

6.425.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.425.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.425.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.425.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.425.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.425.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.425.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ProducerAckMarshaller.h**

6.426 activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2098).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ProducerAckMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller:

Public Member Functions

- **ProducerAckMarshaller** ()
- virtual **~ProducerAckMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.426.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2098). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.426.2 Constructor & Destructor Documentation

6.426.2.1 `activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::ProducerAckMarshaller()` [inline]

6.426.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::~~ProducerAckMarshaller()` [inline, virtual]

6.426.3 Member Function Documentation

6.426.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.426.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.426.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.426.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.426.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.426.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.426.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ProducerAckMarshaller.h**

6.427 activemq::cmsutil::ProducerCallback Class Reference

Callback for sending a message to a CMS destination.

#include <src/main/activemq/cmsutil/ProducerCallback.h> Inheritance diagram for activemq::cmsutil::ProducerCallback:

Public Member Functions

- virtual `~ProducerCallback ()`
- virtual void `doInCms (cms::Session *session, cms::MessageProducer *producer)=0`
throw (cms::CMSException)

Execute an action given a session and producer.

6.427.1 Detailed Description

Callback for sending a message to a CMS destination.

6.427.2 Constructor & Destructor Documentation

- 6.427.2.1 virtual `activemq::cmsutil::ProducerCallback::~~ProducerCallback ()`
[inline, virtual]

6.427.3 Member Function Documentation

- 6.427.3.1 virtual void `activemq::cmsutil::ProducerCallback::doInCms`
(`cms::Session * session`, `cms::MessageProducer * producer`) throw (`cms::CMSException`) [pure virtual]

Execute an action given a session and producer.

Parameters:

session the CMS Session

producer the CMS Producer

Exceptions:

cms::CMSException (p. 850) if thrown by CMS API methods

Implemented in `activemq::cmsutil::CmsTemplate::SendExecutor` (p. 2267).

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/ProducerCallback.h`

6.428 activemq::cmsutil::CmsTemplate::ProducerExecutor Class Reference

#include <src/main/activemq/cmsutil/CmsTemplate.h> Inheritance diagram for activemq::cmsutil::CmsTemplate::ProducerExecutor:

Public Member Functions

- **ProducerExecutor** (**ProducerCallback** **action*, **CmsTemplate** **parent*, **cms::Destination** **destination*)
- virtual **~ProducerExecutor** ()
- virtual void **doInCms** (**cms::Session** **session*) throw (**cms::CMSException**)
Execute any number of operations against the supplied CMS session.
- virtual **cms::Destination** * **getDestination** (**cms::Session** **session* AMQCPP_UNUSED) throw (**cms::CMSException**)

Protected Attributes

- **ProducerCallback** * *action*
- **CmsTemplate** * *parent*
- **cms::Destination** * *destination*

6.428.1 Constructor & Destructor Documentation

- 6.428.1.1 **activemq::cmsutil::CmsTemplate::ProducerExecutor::ProducerExecutor** (**ProducerCallback** * *action*, **CmsTemplate** * *parent*, **cms::Destination** * *destination*) [inline]
- 6.428.1.2 **virtual**
activemq::cmsutil::CmsTemplate::ProducerExecutor::~~ProducerExecutor () [inline, virtual]

6.428.2 Member Function Documentation

- 6.428.2.1 **virtual void** **activemq::cmsutil::CmsTemplate::ProducerExecutor::doInCms** (**cms::Session** * *session*) throw (**cms::CMSException**) [virtual]

Execute any number of operations against the supplied CMS session.

Parameters:

session the CMS Session

Exceptions:

cms::CMSException (p. 850) if thrown by CMS API methods

Implements **activemq::cmsutil::SessionCallback** (p. 2283).

6.428.2.2 `virtual cms::Destination* activemq::cmsutil::CmsTemplate::ProducerExecutor::getDestination (cms::Session *session AMQCPP_UNUSED) throw (cms::CMSException)` [inline, virtual]

6.428.3 Field Documentation

6.428.3.1 `ProducerCallback* activemq::cmsutil::CmsTemplate::ProducerExecutor::action` [protected]

6.428.3.2 `cms::Destination* activemq::cmsutil::CmsTemplate::ProducerExecutor::destination` [protected]

6.428.3.3 `CmsTemplate* activemq::cmsutil::CmsTemplate::ProducerExecutor::parent` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/CmsTemplate.h`

6.429 activemq::commands::ProducerId Class Reference

#include <src/main/activemq/commands/ProducerId.h> Inheritance diagram for activemq::commands::ProducerId:

Public Types

- typedef decaf::lang::PointerComparator< **ProducerId** > **COMPARATOR**

Public Member Functions

- **ProducerId** ()
- **ProducerId** (const **ProducerId** &other)
- **ProducerId** (const **SessionId** &sessionId, long long consumerId)
- virtual ~**ProducerId** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ProducerId** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- const **Pointer**< **SessionId** > & **getParentId** () const
- virtual const std::string & **getConnectionId** () const
- virtual std::string & **getConnectionId** ()
- virtual void **setConnectionId** (const std::string &connectionId)
- virtual long long **getValue** () const
- virtual void **setValue** (long long value)
- virtual long long **getSessionId** () const
- virtual void **setSessionId** (long long sessionId)
- virtual int **compareTo** (const **ProducerId** &value) const
- virtual bool **equals** (const **ProducerId** &value) const
- virtual bool **operator==** (const **ProducerId** &value) const
- virtual bool **operator<** (const **ProducerId** &value) const
- **ProducerId** & **operator=** (const **ProducerId** &other)

Static Public Attributes

- static const unsigned char **ID_PRODUCERID** = 123

Protected Attributes

- std::string **connectionId**
- long long **value**
- long long **sessionId**

6.429.1 Member Typedef Documentation

6.429.1.1 `typedef decaf::lang::PointerComparator<ProducerId>
activemq::commands::ProducerId::COMPARATOR`

6.429.2 Constructor & Destructor Documentation

6.429.2.1 `activemq::commands::ProducerId::ProducerId ()`

6.429.2.2 `activemq::commands::ProducerId::ProducerId (const ProducerId &
other)`

6.429.2.3 `activemq::commands::ProducerId::ProducerId (const SessionId &
sessionId, long long consumerId) [inline]`

References `activemq::commands::SessionId::getConnectionId()`, and `activemq::commands::SessionId::getValue()`.

6.429.2.4 `virtual activemq::commands::ProducerId::~~ProducerId () [virtual]`

6.429.3 Member Function Documentation

6.429.3.1 `virtual ProducerId* activemq::commands::ProducerId::cloneDataStructure ()
const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.429.3.2 `virtual int activemq::commands::ProducerId::compareTo (const
ProducerId & value) const [virtual]`

6.429.3.3 `virtual void activemq::commands::ProducerId::copyDataStructure (const
DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.429.3.4 virtual bool activemq::commands::ProducerId::equals (const ProducerId & *value*) const [virtual]

6.429.3.5 virtual bool activemq::commands::ProducerId::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.429.3.6 virtual std::string& activemq::commands::ProducerId::getConnectionId () [virtual]

6.429.3.7 virtual const std::string& activemq::commands::ProducerId::getConnectionId () const [virtual]

6.429.3.8 virtual unsigned char activemq::commands::ProducerId::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.429.3.9 `const Pointer<SessionId>& activemq::commands::ProducerId::getParentId () const`
- 6.429.3.10 `virtual long long activemq::commands::ProducerId::getSessionId () const [virtual]`
- 6.429.3.11 `virtual long long activemq::commands::ProducerId::getValue () const [virtual]`
- 6.429.3.12 `virtual bool activemq::commands::ProducerId::operator< (const ProducerId & value) const [virtual]`
- 6.429.3.13 `ProducerId& activemq::commands::ProducerId::operator= (const ProducerId & other)`
- 6.429.3.14 `virtual bool activemq::commands::ProducerId::operator== (const ProducerId & value) const [virtual]`
- 6.429.3.15 `virtual void activemq::commands::ProducerId::setConnectionId (const std::string & connectionId) [virtual]`
- 6.429.3.16 `virtual void activemq::commands::ProducerId::setSessionId (long long sessionId) [virtual]`
- 6.429.3.17 `virtual void activemq::commands::ProducerId::setValue (long long value) [virtual]`
- 6.429.3.18 `virtual std::string activemq::commands::ProducerId::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseDataStructure` (p.560).

6.429.4 Field Documentation

- 6.429.4.1 `std::string activemq::commands::ProducerId::connectionId [protected]`
- 6.429.4.2 `const unsigned char activemq::commands::ProducerId::ID_ - PRODUCERID = 123 [static]`

Referenced by `activemq::state::CommandVisitorAdapter::processRemoveInfo()`.

6.429.4.3 `long long activemq::commands::ProducerId::sessionId` [protected]

6.429.4.4 `long long activemq::commands::ProducerId::value` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ProducerId.h`

6.430 activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2110).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ProducerIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller:

Public Member Functions

- **ProducerIdMarshaller** ()
- virtual **~ProducerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.430.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2110). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.430.2 Constructor & Destructor Documentation

6.430.2.1 `activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::ProducerIdMarshaller()` [inline]

6.430.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::~~ProducerIdMarshaller()` [inline, virtual]

6.430.3 Member Function Documentation

6.430.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.430.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.430.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.430.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.430.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.430.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.430.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ProducerIdMarshaller.h**

6.431 activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2114).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ProducerIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller:

Public Member Functions

- **ProducerIdMarshaller** ()
- virtual **~ProducerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.431.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2114). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.431.2 Constructor & Destructor Documentation

6.431.2.1 `activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::ProducerIdMarshaller()` [inline]

6.431.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::~~ProducerIdMarshaller()` [inline, virtual]

6.431.3 Member Function Documentation

6.431.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.431.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.431.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.431.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.431.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.431.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.431.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**ProducerIdMarshaller.h**

6.432 activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2118).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ProducerIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller:

Public Member Functions

- **ProducerIdMarshaller** ()
- virtual **~ProducerIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.432.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2118). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.432.2 Constructor & Destructor Documentation

6.432.2.1 `activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::ProducerIdMarshaller()` [inline]

6.432.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::~~ProducerIdMarshaller()` [inline, virtual]

6.432.3 Member Function Documentation

6.432.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.432.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.432.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.432.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.432.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.432.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.432.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ProducerIdMarshaller.h**

6.433 activemq::commands::ProducerInfo Class Reference

#include <src/main/activemq/commands/ProducerInfo.h> Inheritance diagram for activemq::commands::ProducerInfo:

Public Member Functions

- **ProducerInfo** ()
- virtual **~ProducerInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ProducerInfo** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ProducerId** > & **getProducerId** () const
- virtual **Pointer**< **ProducerId** > & **getProducerId** ()
- virtual void **setProducerId** (const **Pointer**< **ProducerId** > &producerId)
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual const std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** () const
- virtual std::vector< **decaf::lang::Pointer**< **BrokerId** > > & **getBrokerPath** ()
- virtual void **setBrokerPath** (const std::vector< **decaf::lang::Pointer**< **BrokerId** > > &brokerPath)
- virtual bool **isDispatchAsync** () const
- virtual void **setDispatchAsync** (bool dispatchAsync)
- virtual int **getWindowSize** () const
- virtual void **setWindowSize** (int windowSize)
- virtual bool **isProducerInfo** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_PRODUCERINFO** = 6

Protected Member Functions

- **ProducerInfo** (const **ProducerInfo** &)
- **ProducerInfo** & **operator=** (const **ProducerInfo** &)

Protected Attributes

- **Pointer**< **ProducerId** > **producerId**
- **Pointer**< **ActiveMQDestination** > **destination**
- **std::vector**< **decaf::lang::Pointer**< **BrokerId** > > **brokerPath**
- bool **dispatchAsync**
- int **windowSize**

6.433.1 Constructor & Destructor Documentation

- 6.433.1.1 **activemq::commands::ProducerInfo::ProducerInfo** (const **ProducerInfo** &) [inline, protected]
- 6.433.1.2 **activemq::commands::ProducerInfo::ProducerInfo** ()
- 6.433.1.3 **virtual activemq::commands::ProducerInfo::~~ProducerInfo** () [virtual]

6.433.2 Member Function Documentation

- 6.433.2.1 **virtual ProducerInfo* activemq::commands::ProducerInfo::cloneDataStructure** () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

- 6.433.2.2 **virtual void activemq::commands::ProducerInfo::copyDataStructure** (const **DataStructure** * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.433.2.3 `virtual bool activemq::commands::ProducerInfo::equals (const DataStructure * value) const` [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.433.2.4 `virtual std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::ProducerInfo::getBrokerPath ()` [virtual]

6.433.2.5 `virtual const std::vector< decaf::lang::Pointer<BrokerId> >& activemq::commands::ProducerInfo::getBrokerPath () const` [virtual]

6.433.2.6 `virtual unsigned char activemq::commands::ProducerInfo::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.433.2.7 `virtual Pointer<ActiveMQDestination>& activemq::commands::ProducerInfo::getDestination ()` [virtual]
- 6.433.2.8 `virtual const Pointer<ActiveMQDestination>& activemq::commands::ProducerInfo::getDestination () const` [virtual]
- 6.433.2.9 `virtual Pointer<ProducerId>& activemq::commands::ProducerInfo::getProducerId ()` [virtual]
- 6.433.2.10 `virtual const Pointer<ProducerId>& activemq::commands::ProducerInfo::getProducerId () const` [virtual]
- 6.433.2.11 `virtual int activemq::commands::ProducerInfo::getWindowSize () const` [virtual]
- 6.433.2.12 `virtual bool activemq::commands::ProducerInfo::isDispatchAsync () const` [virtual]
- 6.433.2.13 `virtual bool activemq::commands::ProducerInfo::isProducerInfo () const` [inline, virtual]

Returns:

an answer of true to the `isProducerInfo()` (p. 2125) query.

Reimplemented from `activemq::commands::BaseCommand` (p. 511).

- 6.433.2.14 `ProducerInfo& activemq::commands::ProducerInfo::operator= (const ProducerInfo &)` [inline, protected]
- 6.433.2.15 `virtual void activemq::commands::ProducerInfo::setBrokerPath (const std::vector< decaf::lang::Pointer< BrokerId > > & brokerPath)` [virtual]
- 6.433.2.16 `virtual void activemq::commands::ProducerInfo::setDestination (const Pointer< ActiveMQDestination > & destination)` [virtual]
- 6.433.2.17 `virtual void activemq::commands::ProducerInfo::setDispatchAsync (bool dispatchAsync)` [virtual]
- 6.433.2.18 `virtual void activemq::commands::ProducerInfo::setProducerId (const Pointer< ProducerId > & producerId)` [virtual]
- 6.433.2.19 `virtual void activemq::commands::ProducerInfo::setWindowSize (int windowSize)` [virtual]
- 6.433.2.20 `virtual std::string activemq::commands::ProducerInfo::toString () const` [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p. 512).

6.433.2.21 `virtual Pointer<Command> activemq::commands::ProducerInfo::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.433.3 Field Documentation

6.433.3.1 `std::vector< decaf::lang::Pointer<BrokerId> > activemq::commands::ProducerInfo::brokerPath` [protected]

6.433.3.2 `Pointer<ActiveMQDestination> activemq::commands::ProducerInfo::destination` [protected]

6.433.3.3 `bool activemq::commands::ProducerInfo::dispatchAsync` [protected]

6.433.3.4 `const unsigned char activemq::commands::ProducerInfo::ID_PRODUCERINFO = 6` [static]

6.433.3.5 `Pointer<ProducerId> activemq::commands::ProducerInfo::producerId` [protected]

6.433.3.6 `int activemq::commands::ProducerInfo::windowSize` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ProducerInfo.h`

6.434 activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2127).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ProducerInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller:

Public Member Functions

- **ProducerInfoMarshaller** ()
- virtual **~ProducerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.434.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2127). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.434.2 Constructor & Destructor Documentation

6.434.2.1 `activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::ProducerInfoMarshaller()` [inline]

6.434.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::~~ProducerInfoMarshaller()` [inline, virtual]

6.434.3 Member Function Documentation

6.434.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.434.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.434.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.434.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.434.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.434.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.434.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ProducerInfoMarshaller.h**

6.435 activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2131).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ProducerInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller:

Public Member Functions

- **ProducerInfoMarshaller** ()
- virtual **~ProducerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.435.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2131). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.435.2 Constructor & Destructor Documentation

6.435.2.1 `activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::ProducerInfoMarshaller()` [inline]

6.435.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::~~ProducerInfoMarshaller()` [inline, virtual]

6.435.3 Member Function Documentation

6.435.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.435.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.435.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.435.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.435.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.435.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.435.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**ProducerInfoMarshaller.h**

6.436 activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2135).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ProducerInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller:

Public Member Functions

- **ProducerInfoMarshaller** ()
- virtual **~ProducerInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.436.1 Detailed Description

Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2135). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.436.2 Constructor & Destructor Documentation

6.436.2.1 `activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::ProducerInfoMarshaller()` [inline]

6.436.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::~~ProducerInfoMarshaller()` [inline, virtual]

6.436.3 Member Function Documentation

6.436.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.436.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.436.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.436.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.436.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.436.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.436.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ProducerInfoMarshaller.h**

6.437 activemq::state::ProducerState Class Reference

```
#include <src/main/activemq/state/ProducerState.h>
```

Public Member Functions

- **ProducerState** (const **Pointer**< **ProducerInfo** > &info)
- virtual **~ProducerState** ()
- std::string **toString** () const
- const **Pointer**< **ProducerInfo** > & **getInfo** () const

6.437.1 Constructor & Destructor Documentation

6.437.1.1 **activemq::state::ProducerState::ProducerState** (const **Pointer**< **ProducerInfo** > & *info*)

6.437.1.2 virtual **activemq::state::ProducerState::~~ProducerState** () [virtual]

6.437.2 Member Function Documentation

6.437.2.1 const **Pointer**<**ProducerInfo**>& **activemq::state::ProducerState::getInfo** () const [inline]

6.437.2.2 std::string **activemq::state::ProducerState::toString** () const

The documentation for this class was generated from the following file:

- src/main/activemq/state/**ProducerState.h**

6.438 decaf::util::Properties Class Reference

Java-like properties class for mapping string names to string values.

```
#include <src/main/decaf/util/Properties.h>
```

Public Member Functions

- **Properties** ()
- **Properties** (const **Properties** &src)
- virtual ~**Properties** ()
- **Properties** & **operator=** (const **Properties** &src)
Assignment Operator.
- bool **isEmpty** () const
Returns true if the properties object is empty.
- std::size_t **size** () const
- const char * **getProperty** (const std::string &name) const
Looks up the value for the given property.
- std::string **getProperty** (const std::string &name, const std::string &defaultValue) const
Looks up the value for the given property.
- void **setProperty** (const std::string &name, const std::string &value)
Sets the value for a given property.
- bool **hasProperty** (const std::string &name) const
Check to see if the Property exists in the set.
- void **remove** (const std::string &name)
Removes the property with the given name.
- std::vector< std::pair< std::string, std::string > > **toArray** () const
Method that serializes the contents of the property map to an array.
- void **copy** (const **Properties** &source)
*Copies the contents of the given properties object to this one, if the given **Properties** (p. 2140) instance is NULL then this **List** (p. 1591) is not modified.*
- **Properties** * **clone** () const
Clones this object.
- void **clear** ()
Clears all properties from the map.
- bool **equals** (const **Properties** &source) const
*Test whether two **Properties** (p. 2140) objects are equivalent.*
- std::string **toString** () const

*Formats the contents of the **Properties** (p. 2140) Object into a string that can be logged, etc.*

- void **load** (decaf::io::InputStream *stream) throw (decaf::io::IOException, decaf::lang::exceptions::IllegalArgumentException, decaf::lang::exceptions::NullPointerException)

Reads a property list (key and element pairs) from the input byte stream.

- void **load** (decaf::io::Reader *reader) throw (decaf::io::IOException, decaf::lang::exceptions::IllegalArgumentException, decaf::lang::exceptions::NullPointerException)

Reads a property list (key and element pairs) from the input character stream in a simple line-oriented format.

- void **store** (decaf::io::OutputStream *out, const std::string &comment) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)

*Writes this property list (key and element pairs) in this **Properties** (p. 2140) table to the output stream in a format suitable for loading into a **Properties** (p. 2140) table using the load(InputStream) method.*

- void **store** (decaf::io::Writer *writer, const std::string &comments) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)

*Writes this property list (key and element pairs) in this **Properties** (p. 2140) table to the output character stream in a format that can be read by the load(Reader) method.*

Protected Attributes

- std::auto_ptr< **Properties** > **defaults**

Default list used to answer for any keys not found in the properties list, can be filled in by another implementation of this class.

6.438.1 Detailed Description

Java-like properties class for mapping string names to string values. The **Properties** (p. 2140) list contains a key value pair of properties that can be loaded and stored to a stream. Each **Properties** (p. 2140) instance can contain an **internal** (p. 95) **Properties** (p. 2140) list that contains default values for keys not found in the **Properties** (p. 2140) **List** (p. 1591).

The **Properties** (p. 2140) list if a Thread Safe class, it can be shared amongst objects in multiple threads without the need for additional synchronization.

Since:

1.0

6.438.2 Constructor & Destructor Documentation

6.438.2.1 `decaf::util::Properties::Properties ()`

6.438.2.2 `decaf::util::Properties::Properties (const Properties & src)`

6.438.2.3 `virtual decaf::util::Properties::~~Properties ()` [virtual]

6.438.3 Member Function Documentation

6.438.3.1 `void decaf::util::Properties::clear ()`

Clears all properties from the map.

6.438.3.2 `Properties* decaf::util::Properties::clone () const`

Clones this object.

Returns:

a replica of this object.

6.438.3.3 `void decaf::util::Properties::copy (const Properties & source)`

Copies the contents of the given properties object to this one, if the given **Properties** (p. 2140) instance is NULL then this **List** (p. 1591) is not modified.

Parameters:

source The source properties object.

6.438.3.4 `bool decaf::util::Properties::equals (const Properties & source) const`

Test whether two **Properties** (p. 2140) objects are equivalent. Two **Properties** (p. 2140) Objects are considered equivalent when they each contain the same number of elements and each key / value pair contained within the two are equal.

This comparison does not check the contents of the Defaults instance.

Parameters:

source The **Properties** (p. 2140) object to compare this instance to.

Returns:

true if the contents of the two **Properties** (p. 2140) objects are the same.

6.438.3.5 `std::string decaf::util::Properties::getProperty (const std::string & name, const std::string & default Value) const`

Looks up the value for the given property.

Parameters:

name the name of the property to be looked up.

defaultValue The value to be returned if the given property does not exist.

Returns:

The value of the property specified by *name*, if it exists, otherwise the *defaultValue*.

6.438.3.6 const char* decaf::util::Properties::getProperty (const std::string & *name*) const

Looks up the value for the given property.

Parameters:

name The name of the property to be looked up.

Returns:

the value of the property with the given name, if it exists. If it does not exist, returns NULL.

Referenced by decaf::util::logging::LogManager::getProperty().

6.438.3.7 bool decaf::util::Properties::hasProperty (const std::string & *name*) const

Check to see if the Property exists in the set.

Parameters:

name - property name to check for in this properties set.

Returns:

true if property exists, false otherwise.

6.438.3.8 bool decaf::util::Properties::isEmpty () const

Returns true if the properties object is empty.

Returns:

true if empty

6.438.3.9 void decaf::util::Properties::load (decaf::io::Reader * *reader*) throw (decaf::io::IOException, decaf::lang::exceptions::IllegalArgumentException, decaf::lang::exceptions::NullPointerException)

Reads a property list (key and element pairs) from the input character stream in a simple line-oriented format. **Properties** (p. 2140) are processed in terms of lines. There are two kinds of line, natural lines and logical lines. A natural line is defined as a line of characters that is terminated either by a set of line terminator characters (

or or

) or by the end of the stream. A natural line may be either a blank line, a comment line, or hold all or some of a key-element pair. A logical line holds all the data of a key-element pair, which may be spread out across several adjacent natural lines by escaping the line terminator sequence with a backslash character `\`. Note that a comment line cannot be extended in this manner; every natural line that is a comment must have its own comment indicator, as described below. Lines are read from input until the end of the stream is reached.

A natural line that contains only white space characters is considered blank and is ignored. A comment line has an ASCII `'#'` or `'!'` as its first non-white space character; comment lines are also ignored and do not encode key-element information. In addition to line terminators, this format considers the characters space (`' '`), tab (`'\t'`), and form feed (`'\f'`) to be white space.

If a logical line is spread across several natural lines, the backslash escaping the line terminator sequence, the line terminator sequence, and any white space at the start of the following line have no effect on the key or element values. The remainder of the discussion of key and element parsing (when loading) will assume all the characters constituting the key and element appear on a single natural line after line continuation characters have been removed. Note that it is not sufficient to only examine the character preceding a line terminator sequence to decide if the line terminator is escaped; there must be an odd number of contiguous backslashes for the line terminator to be escaped. Since the input is processed from left to right, a non-zero even number of $2n$ contiguous backslashes before a line terminator (or elsewhere) encodes n backslashes after escape processing.

The key contains all of the characters in the line starting with the first non-white space character and up to, but not including, the first unescaped `'='`, `':'`, or white space character other than a line terminator. All of these key termination characters may be included in the key by escaping them with a preceding backslash character; for example,

```
\: \=
```

would be the two-character key `":="`. Line terminator characters can be included using and

escape sequences. Any white space after the key is skipped; if the first non-white space character after the key is `'='` or `':'`, then it is ignored and any white space characters after it are also skipped. All remaining characters on the line become part of the associated element string; if there are no remaining characters, the element is the empty string `""`. Once the raw character sequences constituting the key and element are identified, escape processing is performed as described above.

As an example, each of the following three lines specifies the key `"Truth"` and the associated element value `"Beauty"`:

```
Truth = Beauty Truth:Beauty Truth :Beauty
```

As another example, the following three lines specify a single property:

```
fruits apple, banana, pear, \ cantaloupe, watermelon, \ kiwi, mango
```

The key is `"fruits"` and the associated element is: `"apple, banana, pear, cantaloupe, watermelon, kiwi, mango"`

Note that a space appears before each `\` so that a space will appear after each comma in the final result; the `\`, line terminator, and leading white space on the continuation line are merely discarded and are not replaced by one or more other characters.

As a third example, the line:

```
cheeses
```

specifies that the key is `"cheeses"` and the associated element is the empty string `""`.

Characters in keys and elements can be represented in escape sequences similar to those used

for character and string literals (see §3.3 and §3.10.6 of the Java Language Specification). The differences from the character escape sequences and Unicode escapes used for characters and strings are:

- Octal escapes are not recognized.
- The character sequence **does** not represent a backspace character.
- The method does not treat a backslash character, `\`, before a non-valid escape character as an error; the backslash is silently dropped. For example, in a C++ string the sequence `"\z"` would cause a compile time error. In contrast, this method silently drops the backslash. Therefore, this method treats the two character sequence `"\b"` as equivalent to the single character `'b'`.
- Escapes are not necessary for single and double quotes; however, by the rule above, single and double quote characters preceded by a backslash still yield single and double quote characters, respectively.

This method does not close the Reader upon its return.

Parameters:

reader The Reader that provides an character stream as input.

Exceptions:

IOException if there is an error while reading from the stream.

IllegalArgumentException if malformed data is found while reading the properties.

NullPointerException if the passed stream is Null.

6.438.3.10 `void decaf::util::Properties::load (decaf::io::InputStream
* stream) throw (decaf::io::IOException, de-
caf::lang::exceptions::IllegalArgumentException,
decaf::lang::exceptions::NullPointerException)`

Reads a property list (key and element pairs) from the input byte stream. The input stream is in a simple line-oriented format as specified in `load(Reader)` and is assumed to use the ISO 8859-1 character encoding.

This method does not close the stream upon its return.

Parameters:

stream The stream to read the properties data from.

Exceptions:

IOException if there is an error while reading from the stream.

IllegalArgumentException if malformed data is found while reading the properties.

NullPointerException if the passed stream is Null.

6.438.3.11 Properties& decaf::util::Properties::operator= (const Properties & *src*)

Assignment Operator.

Parameters:

src The **Properties** (p. 2140) list to copy to this **List** (p. 1591).

Returns:

a reference to this **List** (p. 1591) for use in chaining.

6.438.3.12 void decaf::util::Properties::remove (const std::string & *name*)

Removes the property with the given name.

Parameters:

name the name of the property to remove.

6.438.3.13 void decaf::util::Properties::setProperty (const std::string & *name*, const std::string & *value*)

Sets the value for a given property. If the property already exists, overwrites the value.

Parameters:

name The name of the value to be written.

value The value to be written.

6.438.3.14 std::size_t decaf::util::Properties::size () const**Returns:**

The number of **Properties** (p. 2140) in this **Properties** (p. 2140) Object.

6.438.3.15 void decaf::util::Properties::store (decaf::io::Writer * *writer*, const std::string & *comments*) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)

Writes this property list (key and element pairs) in this **Properties** (p. 2140) table to the output character stream in a format that can be read by the load(Reader) method. **Properties** (p. 2140) from the defaults table of this **Properties** (p. 2140) table (if any) are not written out by this method.

If the comments argument is not empty, then an ASCII # character, the comments string, and a line separator are first written to the output stream. Thus, the comments can serve as an identifying comment. Any one of a line feed (

'), a carriage return ("), or a carriage return followed immediately by a line feed in comments is replaced by a line separator generated by the Writer and if the next character in comments is not character # or character ! then an ASCII # is written out after that line separator.

Next, a comment line is always written, consisting of an ASCII `#` character, the current date and time (as if produced by the `toString` method of **Date** (p. 1179) for the current time), and a line separator as generated by the `Writer`.

Then every entry in this **Properties** (p. 2140) table is written out, one per line. For each entry the key string is written, then an ASCII `=`, then the associated element string. For the key, all space characters are written with a preceding `\` character. For the element, leading space characters, but not embedded or trailing space characters, are written with a preceding `\` character. The key and element characters `#`, `!`, `=`, and `:` are written with a preceding backslash to ensure that they are properly loaded.

After the entries have been written, the output stream is flushed. The output stream remains open after this method returns.

Parameters:

- writer* The `Writer` instance to use to output the properties.
- comments* A description of these properties that is written before writing the properties.

Exceptions:

- IOException* if there is an error while writing from the stream.
- NullPointerException* if the passed stream is `Null`.

6.438.3.16 `void decaf::util::Properties::store (decaf::io::OutputStream * out, const std::string & comment) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)`

Writes this property list (key and element pairs) in this **Properties** (p. 2140) table to the output stream in a format suitable for loading into a **Properties** (p. 2140) table using the `load(InputStream)` method. **Properties** (p. 2140) from the defaults table of this **Properties** (p. 2140) table (if any) are not written out by this method.

This method outputs the comments, properties keys and values in the same format as specified in `store(Writer)`, with the following differences:

- The stream is written using the ISO 8859-1 character encoding.
- Characters not in Latin-1 in the comments are written as for their appropriate unicode hexadecimal value `xxxx`.
- Characters less than and characters greater than in property keys or values are written as for the appropriate hexadecimal value `xxxx`.

After the entries have been written, the output stream is flushed. The output stream remains open after this method returns.

Parameters:

- out* The `OutputStream` instance to write the properties to.
- comment* A description of these properties that is written to the output stream.

Exceptions:

- IOException* if there is an error while writing from the stream.
- NullPointerException* if the passed stream is `Null`.

6.438.3.17 `std::vector< std::pair< std::string, std::string > >
decaf::util::Properties::toArray () const`

Method that serializes the contents of the property map to an array.

Returns:

list of pairs where the first is the name and the second is the value.

6.438.3.18 `std::string decaf::util::Properties::toString () const`

Formats the contents of the **Properties** (p. 2140) Object into a string that can be logged, etc.

Returns:

string value of this object.

6.438.4 Field Documentation

6.438.4.1 `std::auto_ptr<Properties> decaf::util::Properties::defaults [protected]`

Default list used to answer for any keys not found in the properties list, can be filled in by another implementation of this class.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Properties.h`

6.439 decaf::util::logging::PropertiesChangeListener Class Reference

Defines the interface that classes can use to listen for change events on **Properties** (p. 2140).

```
#include <src/main/decaf/util/logging/PropertiesChangeListener.h>
```

Public Member Functions

- virtual **~PropertiesChangeListener** ()
- virtual void **onPropertyChanged** (const std::string &name, const std::string &oldValue, const std::string &newValue)=0

Change Event, called when a property is changed.

6.439.1 Detailed Description

Defines the interface that classes can use to listen for change events on **Properties** (p. 2140).

6.439.2 Constructor & Destructor Documentation

- 6.439.2.1 virtual
decaf::util::logging::PropertiesChangeListener::~~PropertiesChangeListener
() [inline, virtual]

6.439.3 Member Function Documentation

- 6.439.3.1 virtual void de-
caf::util::logging::PropertiesChangeListener::onPropertyChanged (const
std::string & *name*, const std::string & *oldValue*, const std::string &
newValue) [pure virtual]

Change Event, called when a property is changed.

Parameters:

- name* - Name of the Property
oldValue - Old Value of the Property
newValue - New Value of the Property

The documentation for this class was generated from the following file:

- src/main/decaf/util/logging/**PropertiesChangeListener.h**

6.440 decaf::net::ProtocolException Class Reference

#include <src/main/decaf/net/ProtocolException.h> Inheritance diagram for decaf::net::ProtocolException:

Public Member Functions

- **ProtocolException** () throw ()
Default Constructor.
- **ProtocolException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **ProtocolException** (const **ProtocolException** &ex) throw ()
Copy Constructor.
- **ProtocolException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **ProtocolException** (const std::exception *cause) throw ()
Constructor.
- **ProtocolException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **ProtocolException** * clone () const
Clones this exception.
- virtual ~**ProtocolException** () throw ()

6.440.1 Constructor & Destructor Documentation

6.440.1.1 decaf::net::ProtocolException::ProtocolException () throw () [inline]

Default Constructor.

6.440.1.2 decaf::net::ProtocolException::ProtocolException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.440.1.3 decaf::net::ProtocolException::ProtocolException (const ProtocolException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.440.1.4 decaf::net::ProtocolException::ProtocolException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.440.1.5 decaf::net::ProtocolException::ProtocolException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.440.1.6 decaf::net::ProtocolException::ProtocolException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.440.1.7 `virtual decaf::net::ProtocolException::~~ProtocolException () throw ()`
 `[inline, virtual]`

6.440.2 Member Function Documentation

6.440.2.1 `virtual ProtocolException* decaf::net::ProtocolException::clone () const`
 `[inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::io::IOException** (p. 1479).

The documentation for this class was generated from the following file:

- `src/main/decaf/net/ProtocolException.h`

6.441 decaf::security::PublicKey Class Reference

A public key.

`#include <src/main/decaf/security/PublicKey.h>`
Inheritance diagram for decaf::security::PublicKey:

Public Member Functions

- virtual `~PublicKey ()`

6.441.1 Detailed Description

A public key. This interface contains no methods or constants. It merely serves to group (and provide type safety for) all public key interfaces.

6.441.2 Constructor & Destructor Documentation

6.441.2.1 virtual `decaf::security::PublicKey::~~PublicKey ()` [inline, virtual]

The documentation for this class was generated from the following file:

- `src/main/decaf/security/PublicKey.h`

6.442 decaf::util::Queue< E > Class Template Reference

A kind of collection provides advanced operations than other basic collections, such as insertion, extraction, and inspection.

#include <src/main/decaf/util/Queue.h> Inheritance diagram for decaf::util::Queue< E >:

Public Member Functions

- virtual **~Queue** ()
- virtual const E & **getEmptyMarker** () const =0
*Returns a reference to the Marker value that is returned from methods that do not throw an exception when there is no element in the **Queue** (p. 2154) to return.*
- virtual bool **offer** (const E &value)=0
Inserts the specified element into the queue provided that the condition allows such an operation.
- virtual E **poll** ()=0
Gets and removes the element in the head of the queue, or returns null if there is no element in the queue.
- virtual E **remove** ()=0 throw (decaf::lang::exceptions::NoSuchElementException)
Gets and removes the element in the head of the queue.
- virtual const E & **peek** () const =0
Gets but not removes the element in the head of the queue.
- virtual const E & **element** () const =0 throw (decaf::lang::exceptions::NoSuchElementException)
Gets but not removes the element in the head of the queue.

6.442.1 Detailed Description

```
template<typename E> class decaf::util::Queue< E >
```

A kind of collection provides advanced operations than other basic collections, such as insertion, extraction, and inspection. Generally, a queue orders its elements by means of first-in-first-out. While priority queue orders its elements according to a comparator specified or the elements' natural order. Furthermore, a stack orders its elements last-in-first out.

Queue (p. 2154) does not provide blocking queue methods, which will block until the operation of the method is allowed. BlockingQueue interface defines such methods.

Certain methods in the **Queue** (p. 2154) interface return a special value instead of throwing an exception if there is no element in the **Queue** (p. 2154) to return, this special value can be obtained by calling the **Queue** (p. 2154) method **getEmptyMarker**.

6.442.2 Constructor & Destructor Documentation

6.442.2.1 `template<typename E > virtual decaf::util::Queue< E >::~~Queue ()`
[inline, virtual]

6.442.3 Member Function Documentation

6.442.3.1 `template<typename E > virtual const E& decaf::util::Queue< E >::element () const throw (decaf::lang::exceptions::NoSuchElementException)` [pure virtual]

Gets but not removes the element in the head of the queue. Throws a `NoSuchElementException` if there is no element in the queue.

Returns:

the element in the head of the queue.

Exceptions:

NoSuchElementException if there is no element in the queue.

Implemented in `decaf::util::AbstractQueue< E >` (p. 138).

6.442.3.2 `template<typename E > virtual const E& decaf::util::Queue< E >::getEmptyMarker () const` [pure virtual]

Returns a reference to the Marker value that is returned from methods that do not throw an exception when there is no element in the **Queue** (p. 2154) to return. The empty marker is usually an instance of the contained element initialized using the default constructor (if its a Class) or the default value for the primitive type.

Returns:

a value that indicates that the **Queue** (p. 2154) is empty.

Referenced by `decaf::util::AbstractQueue< E >::clear()`, `decaf::util::AbstractQueue< E >::element()`, and `decaf::util::AbstractQueue< E >::remove()`.

6.442.3.3 `template<typename E > virtual bool decaf::util::Queue< E >::offer (const E & value)` [pure virtual]

Inserts the specified element into the queue provided that the condition allows such an operation. The method is generally preferable to the `collection.add(E)`, since the latter might throw an exception if the operation fails.

Parameters:

value the specified element to insert into the queue.

Returns:

true if the operation succeeds and false if it fails.

Referenced by `decaf::util::AbstractQueue< E >::add()`.

6.442.3.4 `template<typename E > virtual const E& decaf::util::Queue< E >::peek
() const [pure virtual]`

Gets but not removes the element in the head of the queue.

Returns:

the element in the head of the queue or null if there is no element in the queue.

Referenced by `decaf::util::AbstractQueue< E >::element()`.

6.442.3.5 `template<typename E > virtual E decaf::util::Queue< E >::poll () [pure
virtual]`

Gets and removes the element in the head of the queue, or returns null if there is no element in the queue.

Returns:

the element in the head of the queue or null if there is no element in the queue.

Referenced by `decaf::util::AbstractQueue< E >::clear()`, and `decaf::util::AbstractQueue< E >::remove()`.

6.442.3.6 `template<typename E > virtual E decaf::util::Queue< E >::remove ()
throw (decaf::lang::exceptions::NoSuchElementException) [pure
virtual]`

Gets and removes the element in the head of the queue. Throws a `NoSuchElementException` if there is no element in the queue.

Returns:

the element in the head of the queue.

Exceptions:

NoSuchElementException if there is no element in the queue.

Implemented in `decaf::util::AbstractQueue< E >` (p.138).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Queue.h`

6.443 cms::Queue Class Reference

An interface encapsulating a provider-specific queue name.

#include <src/main/cms/Queue.h> Inheritance diagram for cms::Queue:

Public Member Functions

- virtual `~Queue ()`
- virtual `std::string getQueueName () const =0 throw (CMSEException)`
Gets the name of this queue.

6.443.1 Detailed Description

An interface encapsulating a provider-specific queue name. Messages sent to a **Queue** (p. 2157) are sent to a Single Subscriber on that **Queue** (p. 2157) **Destination** (p. 1190). This allows for Queues to be used as load balances implementing a SEDA based architecture. The length of time that a Provider will store a **Message** (p. 1753) in a **Queue** (p. 2157) is not defined by the CMS API, consult your Provider documentation for this information.

Since:

1.0

6.443.2 Constructor & Destructor Documentation

6.443.2.1 virtual `cms::Queue::~Queue ()` [inline, virtual]

6.443.3 Member Function Documentation

6.443.3.1 virtual `std::string cms::Queue::getQueueName () const throw (CMSEException)` [pure virtual]

Gets the name of this queue.

Returns:

The queue name.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::commands::ActiveMQQueue` (p. 340).

The documentation for this class was generated from the following file:

- `src/main/cms/Queue.h`

6.444 cms::QueueBrowser Class Reference

This class implements in interface for browsing the messages in a **Queue** (p.2157) without removing them.

#include <src/main/cms/QueueBrowser.h> Inheritance diagram for cms::QueueBrowser:

Public Member Functions

- virtual **~QueueBrowser** ()
- virtual const **Queue** * **getQueue** () const =0 throw (cms::CMSEException)
- virtual std::string **getMessageSelector** () const =0 throw (cms::CMSEException)
- virtual std::vector< const **cms::Message** * > **getEnumeration** () const =0 throw (cms::CMSEException)

Gets an enumeration for browsing the current queue messages in the order they would be received.

6.444.1 Detailed Description

This class implements in interface for browsing the messages in a **Queue** (p.2157) without removing them. The **getEnumeration** method of this class returns a static snapshot of the **Queue** (p.2157) at the time the method is called. Since new Message's can be arriving and old Message's could expire the client should periodically refresh its view by calling **getEnumeration** again.

Since:

1.1

6.444.2 Constructor & Destructor Documentation

6.444.2.1 virtual cms::QueueBrowser::~~QueueBrowser () [inline, virtual]

6.444.3 Member Function Documentation

6.444.3.1 virtual std::vector<const cms::Message*>
cms::QueueBrowser::getEnumeration () const throw (
cms::CMSEException) [pure virtual]

Gets an enumeration for browsing the current queue messages in the order they would be received. The enumeration returned is a static view of the **Queue** (p.2157) and is not updated as new Messages arrive, the client should refresh its enumeration by calling this method again.

Returns:

an STL vector for browsing the messages.

Exceptions:

CMSEException (p. 850) if an internal error occurs.

6.444.3.2 virtual std::string cms::QueueBrowser::getMessageSelector () const
throw (cms::CMSEException) [pure virtual]

Returns:

the MessageSelector that is used on when this browser was created or empty string if no selector was present.

Exceptions:

CMSEException (p. 850) if an internal error occurs.

6.444.3.3 virtual const Queue* cms::QueueBrowser::getQueue () const throw (cms::CMSEException) [pure virtual]

Returns:

the **Queue** (p. 2157) that this browser is listening on.

Exceptions:

CMSEException (p. 850) if an internal error occurs.

The documentation for this class was generated from the following file:

- src/main/cms/QueueBrowser.h

6.445 decaf::util::Random Class Reference

Random (p. 2160) Value Generator which is used to generate a stream of pseudorandom numbers.

```
#include <src/main/decaf/util/Random.h>
```

Public Member Functions

- **Random** ()
Construct a random generator with the current time of day in milliseconds as the initial state.
- **Random** (unsigned long long seed)
*Construct a random generator with the given **seed** as the initial state.*
- bool **nextBoolean** ()
Answers the next pseudo-random, uniformly distributed boolean value generated by this generator.
- void **nextBytes** (std::vector< unsigned char > &buf)
Modifies the byte array by a random sequence of bytes generated by this random number generator.
- double **nextDouble** ()
Generates a normally distributed random double number between 0.0 inclusively and 1.0 exclusively.
- float **nextFloat** ()
Generates a normally distributed random float number between 0.0 inclusively and 1.0 exclusively.
- double **nextGaussian** ()
*Pseudo-randomly generates (approximately) a normally distributed **double** value with mean 0.0 and a standard deviation value of 1.0 using the polar method of G.*
- int **nextInt** ()
*Generates a uniformly distributed 32-bit **int** value from the this random number sequence.*
- int **nextInt** (int n) throw (lang::exceptions::IllegalArgumentException)
*Returns to the caller a new pseudo-random integer value which is uniformly distributed between 0 (inclusively) and the value of **n** (exclusively).*
- long long **nextLong** ()
*Generates a uniformly distributed 64-bit **int** value from the this random number sequence.*
- void **setSeed** (unsigned long long seed)
*Modifies the seed using linear congruential formula presented in *The Art of Computer Programming, Volume 2, Section 3.2.1.**

Protected Member Functions

- virtual int **next** (int bits)
*Answers a pseudo-random uniformly distributed **int** value of the number of bits specified by the argument **bits** as described by Donald E.*

6.445.1 Detailed Description

Random (p. 2160) Value Generator which is used to generate a stream of pseudorandom numbers. The algorithms implemented by class **Random** (p. 2160) use a protected utility method that on each invocation can supply up to 32 pseudorandomly generated bits.

Since:

1.0

6.445.2 Constructor & Destructor Documentation

6.445.2.1 decaf::util::Random::Random ()

Construct a random generator with the current time of day in milliseconds as the initial state.

See also:

`setSeed` (p. 2164)

6.445.2.2 decaf::util::Random::Random (unsigned long long *seed*)

Construct a random generator with the given *seed* as the initial state.

Parameters:

seed the seed that will determine the initial state of this random number generator

See also:

`setSeed` (p. 2164)

6.445.3 Member Function Documentation

6.445.3.1 virtual int decaf::util::Random::next (int *bits*) [protected, virtual]

Answers a pseudo-random uniformly distributed `int` value of the number of bits specified by the argument *bits* as described by Donald E. Knuth in *The Art of Computer Programming, Volume 2: Seminumerical Algorithms*, section 3.2.1.

Returns:

`int` a pseudo-random generated `int` number

Parameters:

bits number of bits of the returned value

See also:

`nextBytes` (p. 2162)

`nextDouble` (p. 2162)

`nextFloat` (p. 2162)

`nextInt()` (p. 2163)

nextInt(int) (p. 2163)
nextGaussian (p. 2163)
nextLong (p. 2163)

6.445.3.2 **bool decaf::util::Random::nextBoolean ()**

Answers the next pseudo-random, uniformly distributed boolean value generated by this generator.

Returns:

boolean a pseudo-random, uniformly distributed boolean value

6.445.3.3 **void decaf::util::Random::nextBytes (std::vector< unsigned char > & buf)**

Modifies the byte array by a random sequence of bytes generated by this random number generator.

Parameters:

buf non-null array to contain the new random bytes

See also:

next (p. 2161)

6.445.3.4 **double decaf::util::Random::nextDouble ()**

Generates a normally distributed random double number between 0.0 inclusively and 1.0 exclusively.

Returns:

double

See also:

nextFloat (p. 2162)

6.445.3.5 **float decaf::util::Random::nextFloat ()**

Generates a normally distributed random float number between 0.0 inclusively and 1.0 exclusively.

Returns:

float a random float number between 0.0 and 1.0

See also:

nextDouble (p. 2162)

6.445.3.6 double decaf::util::Random::nextGaussian ()

Pseudo-randomly generates (approximately) a normally distributed `double` value with mean 0.0 and a standard deviation value of 1.0 using the *polar method* of G. E. P. Box, M. E. Muller, and G. Marsaglia, as described by Donald E. Knuth in *The Art of Computer Programming, Volume 2: Seminumerical Algorithms*, section 3.4.1, subsection C, algorithm P

Returns:

`double`

See also:

`nextDouble` (p. 2162)

6.445.3.7 int decaf::util::Random::nextInt (int *n*) throw (lang::exceptions::IllegalArgumentException)

Returns to the caller a new pseudo-random integer value which is uniformly distributed between 0 (inclusively) and the value of `n` (exclusively).

Returns:

`int`

Parameters:

n `int`

Exceptions:

IllegalArgumentException

6.445.3.8 int decaf::util::Random::nextInt ()

Generates a uniformly distributed 32-bit `int` value from the this random number sequence.

Returns:

`int` uniformly distributed `int` value

See also:

`next` (p. 2161)

`nextLong` (p. 2163)

6.445.3.9 long long decaf::util::Random::nextLong ()

Generates a uniformly distributed 64-bit `int` value from the this random number sequence.

Returns:

64-bit `int` random number

See also:

`next` (p. 2161)
`nextInt()` (p. 2163)
`nextInt(int)` (p. 2163)

6.445.3.10 `void decaf::util::Random::setSeed (unsigned long long seed)`

Modifies the seed using linear congruential formula presented in *The Art of Computer Programming, Volume 2*, Section 3.2.1.

Parameters:

seed the seed that alters the state of the random number generator

See also:

`next` (p. 2161)
`Random()` (p. 2161)
`Random(long)`

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Random.h`

6.446 decaf::io::Reader Class Reference

```
#include <src/main/decaf/io/Reader.h>
```

Public Member Functions

- virtual `~Reader ()`
- virtual void `setInputStream (InputStream *is)=0`
Sets the target input stream.
- virtual `InputStream * getInputStream ()=0`
Gets the target input stream.
- virtual `std::size_t read (unsigned char *buffer, std::size_t count)=0` throw (`IOException`, `lang::exceptions::NullPointerException`)
Attempts to read an array of bytes from the stream.
- virtual unsigned char `readByte ()=0` throw (`IOException`)
Attempts to read a byte from the input stream.

6.446.1 Constructor & Destructor Documentation

6.446.1.1 virtual `decaf::io::Reader::~~Reader ()` [inline, virtual]

6.446.2 Member Function Documentation

6.446.2.1 virtual `InputStream* decaf::io::Reader::getInputStream ()` [pure virtual]

Gets the target input stream.

6.446.2.2 virtual `std::size_t decaf::io::Reader::read (unsigned char * buffer, std::size_t count)` throw (`IOException`, `lang::exceptions::NullPointerException`) [pure virtual]

Attempts to read an array of bytes from the stream.

Parameters:

buffer The target byte buffer.
count The number of bytes to read.

Returns:

The number of bytes read.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

6.446.2.3 `virtual unsigned char decaf::io::Reader::readByte () throw (IOException)` [pure virtual]

Attempts to read a byte from the input stream.

Returns:

The byte.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

6.446.2.4 `virtual void decaf::io::Reader::setInputStream (InputStream * is)` [pure virtual]

Sets the target input stream.

The documentation for this class was generated from the following file:

- `src/main/decaf/io/Reader.h`

6.447 decaf::nio::ReadOnlyBufferException Class Reference

#include <src/main/decaf/nio/ReadOnlyBufferException.h> Inheritance diagram for decaf::nio::ReadOnlyBufferException:

Public Member Functions

- **ReadOnlyBufferException** () throw ()
Default Constructor.
- **ReadOnlyBufferException** (const lang::Exception &ex) throw ()
Copy Constructor.
- **ReadOnlyBufferException** (const ReadOnlyBufferException &ex) throw ()
Copy Constructor.
- **ReadOnlyBufferException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **ReadOnlyBufferException** (const std::exception *cause) throw ()
Constructor.
- **ReadOnlyBufferException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor.
- virtual **ReadOnlyBufferException * clone** () const
Clones this exception.
- virtual ~**ReadOnlyBufferException** () throw ()

6.447.1 Constructor & Destructor Documentation

6.447.1.1 decaf::nio::ReadOnlyBufferException::ReadOnlyBufferException () throw () [inline]

Default Constructor.

6.447.1.2 decaf::nio::ReadOnlyBufferException::ReadOnlyBufferException (const lang::Exception & ex) throw () [inline]

Copy Constructor.

Parameters:

ex the exception to copy

6.447.1.3 `decaf::nio::ReadOnlyBufferException::ReadOnlyBufferException (const ReadOnlyBufferException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex the exception to copy, which is an instance of this type

6.447.1.4 `decaf::nio::ReadOnlyBufferException::ReadOnlyBufferException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.447.1.5 `decaf::nio::ReadOnlyBufferException::ReadOnlyBufferException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.447.1.6 `decaf::nio::ReadOnlyBufferException::ReadOnlyBufferException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor.

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.447.1.7 virtual decaf::nio::ReadOnlyBufferException::~~ReadOnlyBufferException
() throw () [inline, virtual]

6.447.2 Member Function Documentation

6.447.2.1 virtual ReadOnlyBufferException* de-
caf::nio::ReadOnlyBufferException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Reimplemented from **decaf::lang::exceptions::UnsupportedOperationException** (p. 2637).

The documentation for this class was generated from the following file:

- src/main/decaf/nio/ReadOnlyBufferException.h

6.448 decaf::util::concurrent::locks::ReadWriteLock Class Reference

A **ReadWriteLock** (p. 2170) maintains a pair of associated **locks** (p. 119), one for read-only operations and one for writing.

```
#include <src/main/decaf/util/concurrent/locks/ReadWriteLock.h>
```

Public Member Functions

- virtual **~ReadWriteLock** ()
- virtual **Lock & readLock** ()=0
Returns the lock used for reading.
- virtual **Lock & writeLock** ()=0
Returns the lock used for writing.

6.448.1 Detailed Description

A **ReadWriteLock** (p. 2170) maintains a pair of associated **locks** (p. 119), one for read-only operations and one for writing. The read lock may be held simultaneously by multiple reader threads, so long as there are no writers. The write lock is exclusive.

All **ReadWriteLock** (p. 2170) implementations must guarantee that the memory synchronization effects of writeLock operations (as specified in the **Lock** (p. 1618) interface) also hold with respect to the associated readLock. That is, a thread successfully acquiring the read lock will see all updates made upon previous release of the write lock.

A read-write lock allows for a greater level of concurrency in accessing shared data than that permitted by a mutual exclusion lock. It exploits the fact that while only a single thread at a time (a writer thread) can modify the shared data, in many cases any number of threads can concurrently read the data (hence reader threads). In theory, the increase in concurrency permitted by the use of a read-write lock will lead to performance improvements over the use of a mutual exclusion lock. In practice this increase in concurrency will only be fully realized on a multi-processor, and then only if the access patterns for the shared data are suitable.

Whether or not a read-write lock will improve performance over the use of a mutual exclusion lock depends on the frequency that the data is read compared to being modified, the duration of the read and write operations, and the contention for the data - that is, the number of threads that will try to read or write the data at the same time. For example, a collection that is initially populated with data and thereafter infrequently modified, while being frequently searched (such as a directory of some kind) is an ideal candidate for the use of a read-write lock. However, if updates become frequent then the data spends most of its time being exclusively locked and there is little, if any increase in concurrency. Further, if the read operations are too short the overhead of the read-write lock implementation (which is inherently more complex than a mutual exclusion lock) can dominate the execution cost, particularly as many read-write lock implementations still serialize all threads through a small section of code. Ultimately, only profiling and measurement will establish whether the use of a read-write lock is suitable for your application.

Although the basic operation of a read-write lock is straight-forward, there are many policy decisions that an implementation must make, which may affect the effectiveness of the read-write lock in a given application. Examples of these policies include:

* Determining whether to grant the read lock or the write lock, when both readers and writers are waiting, at the time that a writer releases the write lock. Writer preference is common, as writes are expected to be short and infrequent. Reader preference is less common as it can lead to lengthy delays for a write if the readers are frequent and long-lived as expected. Fair, or "in-order" implementations are also possible. * Determining whether readers that request the read lock while a reader is active and a writer is waiting, are granted the read lock. Preference to the reader can delay the writer indefinitely, while preference to the writer can reduce the potential for concurrency. * Determining whether the **locks** (p. 119) are reentrant: can a thread with the write lock reacquire it? Can it acquire a read lock while holding the write lock? Is the read lock itself reentrant? * Can the write lock be downgraded to a read lock without allowing an intervening writer? Can a read lock be upgraded to a write lock, in preference to other waiting readers or writers?

You should consider all of these things when evaluating the suitability of a given implementation for your application.

Since:

1.0

6.448.2 Constructor & Destructor Documentation

6.448.2.1 `virtual decaf::util::concurrent::locks::ReadWriteLock::~~ReadWriteLock ()`
[inline, virtual]

6.448.3 Member Function Documentation

6.448.3.1 `virtual Lock& decaf::util::concurrent::locks::ReadWriteLock::readLock ()`
[pure virtual]

Returns the lock used for reading.

Returns:

the lock used for reading.

6.448.3.2 `virtual Lock& decaf::util::concurrent::locks::ReadWriteLock::writeLock ()`
[pure virtual]

Returns the lock used for writing.

Returns:

the lock used for writing.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/locks/ReadWriteLock.h`

6.449 activemq::cmsutil::CmsTemplate::ReceiveExecutor Class Reference

#include <src/main/activemq/cmsutil/CmsTemplate.h> Inheritance diagram for activemq::cmsutil::CmsTemplate::ReceiveExecutor:

Public Member Functions

- **ReceiveExecutor** (**CmsTemplate** *parent, **cms::Destination** *destination, const std::string &selector, bool noLocal)
- virtual ~**ReceiveExecutor** ()
- virtual void **doInCms** (**cms::Session** *session) throw (cms::CMSException)
Execute any number of operations against the supplied CMS session.
- virtual **cms::Destination** * **getDestination** (**cms::Session** *session AMQCPP_UNUSED) throw (cms::CMSException)
- **cms::Message** * **getMessage** ()

Protected Attributes

- **cms::Destination** * destination
- std::string selector
- bool noLocal
- **cms::Message** * message
- **CmsTemplate** * parent

6.449.1 Constructor & Destructor Documentation

6.449.1.1 **activemq::cmsutil::CmsTemplate::ReceiveExecutor::ReceiveExecutor** (**CmsTemplate** * parent, **cms::Destination** * destination, const std::string & selector, bool noLocal) [inline]

6.449.1.2 virtual **activemq::cmsutil::CmsTemplate::ReceiveExecutor::~~ReceiveExecutor** () [inline, virtual]

6.449.2 Member Function Documentation

6.449.2.1 virtual void **activemq::cmsutil::CmsTemplate::ReceiveExecutor::doInCms** (**cms::Session** * session) throw (cms::CMSException) [virtual]

Execute any number of operations against the supplied CMS session.

Parameters:

session the CMS Session

Exceptions:

cms::CMSException (p. 850) if thrown by CMS API methods

Implements `activemq::cmsutil::SessionCallback` (p. 2283).

6.449.2.2 `virtual cms::Destination* activemq::cmsutil::CmsTemplate::ReceiveExecutor::getDestination (cms::Session *session AMQCPP_UNUSED) throw (cms::CMSException)` [inline, virtual]

6.449.2.3 `cms::Message* activemq::cmsutil::CmsTemplate::ReceiveExecutor::getMessage ()` [inline]

6.449.3 Field Documentation

6.449.3.1 `cms::Destination* activemq::cmsutil::CmsTemplate::ReceiveExecutor::destination` [protected]

6.449.3.2 `cms::Message* activemq::cmsutil::CmsTemplate::ReceiveExecutor::message` [protected]

6.449.3.3 `bool activemq::cmsutil::CmsTemplate::ReceiveExecutor::noLocal` [protected]

6.449.3.4 `CmsTemplate* activemq::cmsutil::CmsTemplate::ReceiveExecutor::parent` [protected]

6.449.3.5 `std::string activemq::cmsutil::CmsTemplate::ReceiveExecutor::selector` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/CmsTemplate.h`

6.450 decaf::util::concurrent::RejectedExecutionException Class Reference

#include <src/main/decaf/util/concurrent/RejectedExecutionException.h> Inheritance diagram for decaf::util::concurrent::RejectedExecutionException:

Public Member Functions

- **RejectedExecutionException** () throw ()
Default Constructor.
- **RejectedExecutionException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **RejectedExecutionException** (const **RejectedExecutionException** &ex) throw ()
Copy Constructor.
- **RejectedExecutionException** (const std::exception *cause) throw ()
Constructor.
- **RejectedExecutionException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **RejectedExecutionException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **RejectedExecutionException** * clone () const
Clones this exception.
- virtual ~**RejectedExecutionException** () throw ()

6.450.1 Constructor & Destructor Documentation

6.450.1.1 decaf::util::concurrent::RejectedExecutionException::RejectedExecutionException () throw () [inline]

Default Constructor.

6.450.1.2 decaf::util::concurrent::RejectedExecutionException::RejectedExecutionException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References `decaf::lang::Exception::Exception()`.

6.450.1.3 decaf::util::concurrent::RejectedExecutionException::RejectedExecutionException (const RejectedExecutionException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex - The Exception to copy in this new instance.

References `decaf::lang::Exception::Exception()`.

6.450.1.4 decaf::util::concurrent::RejectedExecutionException::RejectedExecutionException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.450.1.5 decaf::util::concurrent::RejectedExecutionException::RejectedExecutionException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs

lineNumber - The line number where the exception occurred.

msg - The message to report

... - list of primitives that are formatted into the message

6.450.1.6 decaf::util::concurrent::RejectedExecutionException::RejectedExecutionException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file - The file name where exception occurs

lineNumber - The line number where the exception occurred.

cause - The exception that was the cause for this one to be thrown.

msg - The message to report

... - list of primitives that are formatted into the message

6.450.1.7 **virtual**
 decaf::util::concurrent::RejectedExecutionException::~~RejectedExecutionException
 () throw () [inline, virtual]

6.450.2 Member Function Documentation

6.450.2.1 **virtual RejectedExecutionException* de-**
 caf::util::concurrent::RejectedExecutionException::clone ()
 const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

 A new instance this exception type with a copy the current state.

Reimplemented from **decaf::lang::Exception** (p. 1271).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/RejectedExecutionException.h`

6.451 activemq::commands::RemoveInfo Class Reference

#include <src/main/activemq/commands/RemoveInfo.h> Inheritance diagram for activemq::commands::RemoveInfo:

Public Member Functions

- **RemoveInfo** ()
- virtual **~RemoveInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **RemoveInfo** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **DataStructure** > & **getObjectId** () const
- virtual **Pointer**< **DataStructure** > & **getObjectId** ()
- virtual void **setObjectId** (const **Pointer**< **DataStructure** > &objectId)
- virtual bool **isRemoveInfo** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_REMOVEINFO** = 12

Protected Member Functions

- **RemoveInfo** (const **RemoveInfo** &)
- **RemoveInfo** & **operator=** (const **RemoveInfo** &)

Protected Attributes

- **Pointer**< **DataStructure** > **objectId**

6.451.1 Constructor & Destructor Documentation

6.451.1.1 `activemq::commands::RemoveInfo::RemoveInfo (const RemoveInfo &)`
[inline, protected]

6.451.1.2 `activemq::commands::RemoveInfo::RemoveInfo ()`

6.451.1.3 `virtual activemq::commands::RemoveInfo::~~RemoveInfo ()` [virtual]

6.451.2 Member Function Documentation

6.451.2.1 `virtual RemoveInfo* activemq::commands::RemoveInfo::cloneDataStructure ()`
`const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.451.2.2 `virtual void activemq::commands::RemoveInfo::copyDataStructure (const DataStructure * src)` [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.451.2.3 `virtual bool activemq::commands::RemoveInfo::equals (const DataStructure * value) const` [virtual]

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.451.2.4 `virtual unsigned char activemq::commands::RemoveInfo::getDataStructureType ()`
`const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

6.451.2.5 `virtual Pointer<DataSet>& activemq::commands::RemoveInfo::getObjectId ()`
[virtual]

6.451.2.6 `virtual const Pointer<DataSet>& activemq::commands::RemoveInfo::getObjectId () const`
[virtual]

6.451.2.7 `virtual bool activemq::commands::RemoveInfo::isRemoveInfo () const`
[inline, virtual]

Returns:

an answer of true to the **isRemoveInfo()** (p. 2179) query.

Reimplemented from **activemq::commands::BaseCommand** (p. 511).

6.451.2.8 `RemoveInfo& activemq::commands::RemoveInfo::operator= (const RemoveInfo &)` [inline, protected]

6.451.2.9 `virtual void activemq::commands::RemoveInfo::setObjectId (const Pointer< DataSet > & objectId)` [virtual]

6.451.2.10 `virtual std::string activemq::commands::RemoveInfo::toString () const`
[virtual]

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.451.2.11 `virtual Pointer<Command> activemq::commands::RemoveInfo::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.451.3 Field Documentation

6.451.3.1 `const unsigned char activemq::commands::RemoveInfo::ID_REMOVEINFO = 12` [static]

6.451.3.2 `Pointer<DataStructure> activemq::commands::RemoveInfo::objectId` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/RemoveInfo.h`

6.452 activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2181).

#include <src/main/activemq/wireformat/openwire/marshal/v2/RemoveInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller:

Public Member Functions

- **RemoveInfoMarshaller** ()
- virtual **~RemoveInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.452.1 Detailed Description

Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2181). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.452.2 Constructor & Destructor Documentation

6.452.2.1 `activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::RemoveInfoMarshaller()` [inline]

6.452.2.2 `virtual activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::~~RemoveInfoMarshaller()` [inline, virtual]

6.452.3 Member Function Documentation

6.452.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.452.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.452.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.452.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.452.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.452.3.6 virtual void activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.452.3.7 virtual void activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**RemoveInfoMarshaller.h**

6.453 activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2185).

#include <src/main/activemq/wireformat/openwire/marshal/v1/RemoveInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller:

Public Member Functions

- **RemoveInfoMarshaller** ()
- virtual **~RemoveInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.453.1 Detailed Description

Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2185). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.453.2 Constructor & Destructor Documentation

6.453.2.1 `activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::RemoveInfoMarshaller()` [inline]

6.453.2.2 `virtual activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::~~RemoveInfoMarshaller()` [inline, virtual]

6.453.3 Member Function Documentation

6.453.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.453.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.453.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.453.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.453.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.453.3.6 virtual void activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.453.3.7 virtual void activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**RemoveInfoMarshaller.h**

6.454 activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2189).

#include <src/main/activemq/wireformat/openwire/marshal/v3/RemoveInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller:

Public Member Functions

- **RemoveInfoMarshaller** ()
- virtual **~RemoveInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.454.1 Detailed Description

Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2189). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.454.2 Constructor & Destructor Documentation

6.454.2.1 `activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::RemoveInfoMarshaller()` [inline]

6.454.2.2 `virtual activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::~~RemoveInfoMarshaller()` [inline, virtual]

6.454.3 Member Function Documentation

6.454.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.454.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.454.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.454.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.454.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.454.3.6 `virtual void activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.454.3.7 `virtual void activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/RemoveInfoMarshaller.h`

6.455 activemq::commands::RemoveSubscriptionInfo Class Reference

#include <src/main/activemq/commands/RemoveSubscriptionInfo.h> Inheritance diagram for activemq::commands::RemoveSubscriptionInfo:

Public Member Functions

- **RemoveSubscriptionInfo** ()
- virtual **~RemoveSubscriptionInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **RemoveSubscriptionInfo** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConnectionId** > & **getConnectionId** () const
- virtual **Pointer**< **ConnectionId** > & **getConnectionId** ()
- virtual void **setConnectionId** (const **Pointer**< **ConnectionId** > &connectionId)
- virtual const std::string & **getSubscriptionName** () const
- virtual std::string & **getSubscriptionName** ()
- virtual void **setSubscriptionName** (const std::string &subscriptionName)
- virtual const std::string & **getClientId** () const
- virtual std::string & **getClientId** ()
- virtual void **setClientId** (const std::string &clientId)
- virtual bool **isRemoveSubscriptionInfo** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor)
throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_REMOVESUBSCRIPTIONINFO** = 9

Protected Member Functions

- **RemoveSubscriptionInfo** (const **RemoveSubscriptionInfo** &)
- **RemoveSubscriptionInfo** & **operator=** (const **RemoveSubscriptionInfo** &)

Protected Attributes

- **Pointer**< **ConnectionId** > **connectionId**
- std::string **subscriptionName**
- std::string **clientId**

6.455.1 Constructor & Destructor Documentation

- 6.455.1.1** **activemq::commands::RemoveSubscriptionInfo::RemoveSubscriptionInfo** (const **RemoveSubscriptionInfo** &) [inline, protected]
- 6.455.1.2** **activemq::commands::RemoveSubscriptionInfo::RemoveSubscriptionInfo** ()
- 6.455.1.3** **virtual**
activemq::commands::RemoveSubscriptionInfo::~~RemoveSubscriptionInfo () [virtual]

6.455.2 Member Function Documentation

- 6.455.2.1** **virtual RemoveSubscriptionInfo*** **activemq::commands::RemoveSubscriptionInfo::cloneDataStructure** ()
const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

- 6.455.2.2** **virtual void** **activemq::commands::RemoveSubscriptionInfo::copyDataStructure** (const **DataStructure** * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.455.2.3 virtual bool activemq::commands::RemoveSubscriptionInfo::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

6.455.2.4 virtual std::string& activemq::commands::RemoveSubscriptionInfo::getClientId () [virtual]**6.455.2.5 virtual const std::string& activemq::commands::RemoveSubscriptionInfo::getClientId () const [virtual]****6.455.2.6 virtual Pointer<ConnectionId>& activemq::commands::RemoveSubscriptionInfo::getConnectionId () [virtual]****6.455.2.7 virtual const Pointer<ConnectionId>& activemq::commands::RemoveSubscriptionInfo::getConnectionId () const [virtual]****6.455.2.8 virtual unsigned char activemq::commands::RemoveSubscriptionInfo::getDataStructureType () const [virtual]**

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.455.2.9** `virtual std::string& activemq::commands::RemoveSubscriptionInfo::getSubscriptionName ()`
[virtual]
- 6.455.2.10** `virtual const std::string& activemq::commands::RemoveSubscriptionInfo::getSubscriptionName ()`
`const` [virtual]
- 6.455.2.11** `virtual bool activemq::commands::RemoveSubscriptionInfo::isRemoveSubscriptionInfo () const` [inline, virtual]

Returns:

an answer of true to the `isRemoveSubscriptionInfo()` (p. 2196) query.

Reimplemented from `activemq::commands::BaseCommand` (p. 511).

- 6.455.2.12** `RemoveSubscriptionInfo& activemq::commands::RemoveSubscriptionInfo::operator=`
`(const RemoveSubscriptionInfo &)` [inline, protected]
- 6.455.2.13** `virtual void activemq::commands::RemoveSubscriptionInfo::setClientId`
`(const std::string & clientId)` [virtual]
- 6.455.2.14** `virtual void activemq::commands::RemoveSubscriptionInfo::setConnectionId (const`
`Pointer< ConnectionId > & connectionId)` [virtual]
- 6.455.2.15** `virtual void activemq::commands::RemoveSubscriptionInfo::setSubscriptionName`
`(const std::string & subscriptionName)` [virtual]
- 6.455.2.16** `virtual std::string activemq::commands::RemoveSubscriptionInfo::toString ()`
`const` [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p. 512).

- 6.455.2.17** `virtual Pointer<Command> activemq::commands::RemoveSubscriptionInfo::visit`
`(activemq::state::CommandVisitor * visitor) throw (`
`exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.455.3 Field Documentation

6.455.3.1 `std::string activemq::commands::RemoveSubscriptionInfo::clientId`
[protected]

6.455.3.2 `Pointer<ConnectionId> activemq::commands::RemoveSubscriptionInfo::connectionId`
[protected]

6.455.3.3 `const unsigned char activemq::commands::RemoveSubscriptionInfo::ID_REMOVE_SUBSCRIPTIONINFO = 9` [static]

6.455.3.4 `std::string activemq::commands::RemoveSubscriptionInfo::subscriptionName`
[protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/RemoveSubscriptionInfo.h`

6.456 activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2198).

#include <src/main/activemq/wireformat/openwire/marshal/v2/RemoveSubscriptionInfoMarshaller.h> In diagram for activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller:

Public Member Functions

- **RemoveSubscriptionInfoMarshaller** ()
- virtual **~RemoveSubscriptionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.456.1 Detailed Description

Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2198).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.456.2 Constructor & Destructor Documentation

6.456.2.1 `activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::RemoveSubscriptionInfo()` [inline]

6.456.2.2 `virtual activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::~RemoveSubscriptionInfo()` [inline, virtual]

6.456.3 Member Function Documentation

6.456.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.456.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.456.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::marshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.456.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.456.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::tightMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

```

6.456.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::tightMars
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryReader that provides that data sink
- bs* - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

```

6.456.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller::tightUnm
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataInputStream * dataIn,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**RemoveSubscriptionInfoMarshaller.h**

6.457 activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2202).

#include <src/main/activemq/wireformat/openwire/marshal/v3/RemoveSubscriptionInfoMarshaller.h> In diagram for activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller:

Public Member Functions

- **RemoveSubscriptionInfoMarshaller** ()
- virtual **~RemoveSubscriptionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.457.1 Detailed Description

Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2202).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.457.2 Constructor & Destructor Documentation

6.457.2.1 `activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::RemoveSubscriptionInfoMarshaller()` [inline]

6.457.2.2 `virtual activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::~RemoveSubscriptionInfoMarshaller()` [inline, virtual]

6.457.3 Member Function Documentation

6.457.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.457.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.457.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::marshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.457.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.457.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

```

6.457.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::tightMars
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Write a object instance to data output stream.

Parameters:

- wireFormat* - describes the wire format of the broker
- dataStructure* - Object to be marshaled
- dataOut* - BinaryReader that provides that data sink
- bs* - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

```

6.457.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller::tightUnm
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataInputStream * dataIn,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]

```

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**RemoveSubscriptionInfoMarshaller.h**

6.458 activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2206).

#include <src/main/activemq/wireformat/openwire/marshal/v1/RemoveSubscriptionInfoMarshaller.h> In diagram for activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller:

Public Member Functions

- **RemoveSubscriptionInfoMarshaller** ()
- virtual **~RemoveSubscriptionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.458.1 Detailed Description

Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2206).

NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.458.2 Constructor & Destructor Documentation

6.458.2.1 `activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::RemoveSubscriptionInfoMarshaller()` [inline]

6.458.2.2 `virtual activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::~RemoveSubscriptionInfoMarshaller()` [inline, virtual]

6.458.3 Member Function Documentation

6.458.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.458.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.458.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::marshal(commands::DataStructure* dataStructure, decaf::io::DataOutputStream* dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.458.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.458.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.458

activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller

Class Reference

2209

```
6.458.3.6 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::tightMars
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataOutputStream * dataOut,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
```

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

```
6.458.3.7 virtual void ac-
    tivemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller::tightUnm
    (OpenWireFormat * wireFormat, commands::DataStructure
    * dataStructure, decaf::io::DataInputStream * dataIn,
    utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**RemoveSubscriptionInfoMarshaller.h**

6.459 activemq::commands::ReplayCommand Class Reference

#include <src/main/activemq/commands/ReplayCommand.h> Inheritance diagram for activemq::commands::ReplayCommand:

Public Member Functions

- **ReplayCommand** ()
- virtual **~ReplayCommand** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ReplayCommand** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual int **getFirstNakNumber** () const
- virtual void **setFirstNakNumber** (int firstNakNumber)
- virtual int **getLastNakNumber** () const
- virtual void **setLastNakNumber** (int lastNakNumber)
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_REPLAYCOMMAND** = 65

Protected Member Functions

- **ReplayCommand** (const **ReplayCommand** &)
- **ReplayCommand** & **operator=** (const **ReplayCommand** &)

Protected Attributes

- int **firstNakNumber**
- int **lastNakNumber**

6.459.1 Constructor & Destructor Documentation

6.459.1.1 `activemq::commands::ReplayCommand::ReplayCommand (const ReplayCommand &) [inline, protected]`

6.459.1.2 `activemq::commands::ReplayCommand::ReplayCommand ()`

6.459.1.3 `virtual activemq::commands::ReplayCommand::~~ReplayCommand () [virtual]`

6.459.2 Member Function Documentation

6.459.2.1 `virtual ReplayCommand* activemq::commands::ReplayCommand::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.459.2.2 `virtual void activemq::commands::ReplayCommand::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.459.2.3 `virtual bool activemq::commands::ReplayCommand::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.459.2.4 `virtual unsigned char activemq::commands::ReplayCommand::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

6.459.2.5 `virtual int activemq::commands::ReplayCommand::getFirstNakNumber () const [virtual]`

6.459.2.6 `virtual int activemq::commands::ReplayCommand::getLastNakNumber () const [virtual]`

6.459.2.7 `ReplayCommand& activemq::commands::ReplayCommand::operator= (const ReplayCommand &) [inline, protected]`

6.459.2.8 `virtual void activemq::commands::ReplayCommand::setFirstNakNumber (int firstNakNumber) [virtual]`

6.459.2.9 `virtual void activemq::commands::ReplayCommand::setLastNakNumber (int lastNakNumber) [virtual]`

6.459.2.10 `virtual std::string activemq::commands::ReplayCommand::toString () const [virtual]`

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.459.2.11 `virtual Pointer<Command> activemq::commands::ReplayCommand::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException) [virtual]`

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.459.3 Field Documentation

6.459.3.1 `int activemq::commands::ReplayCommand::firstNakNumber` [protected]

6.459.3.2 `const unsigned char activemq::commands::ReplayCommand::ID_-REPLAYCOMMAND = 65` [static]

6.459.3.3 `int activemq::commands::ReplayCommand::lastNakNumber` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/ReplayCommand.h`

6.460 activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2214).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ReplayCommandMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller:

Public Member Functions

- **ReplayCommandMarshaller** ()
- virtual **~ReplayCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.460.1 Detailed Description

Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2214). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.460.2 Constructor & Destructor Documentation

6.460.2.1 `activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::ReplayCommandMarshaller()` `[inline]`

6.460.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::~~ReplayCommandMarshaller()` `[inline, virtual]`

6.460.3 Member Function Documentation

6.460.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.460.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.460.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.460.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.460.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.460.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.460.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/ReplayCommandMarshaller.h

6.461 activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2218).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ReplayCommandMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller:

Public Member Functions

- **ReplayCommandMarshaller** ()
- virtual **~ReplayCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.461.1 Detailed Description

Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2218). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.461.2 Constructor & Destructor Documentation

6.461.2.1 `activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::ReplayCommandMarshaller()` `[inline]`

6.461.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::~~ReplayCommandMarshaller()` `[inline, virtual]`

6.461.3 Member Function Documentation

6.461.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.461.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.461.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.461.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.461.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.461.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.461.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/ReplayCommandMarshaller.h

6.462 activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller Class Reference

Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2222).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ReplayCommandMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller:

Public Member Functions

- **ReplayCommandMarshaller** ()
- virtual **~ReplayCommandMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.462.1 Detailed Description

Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2222). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.462.2 Constructor & Destructor Documentation

6.462.2.1 `activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::ReplayCommandMarshaller()` [inline]

6.462.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::~~ReplayCommandMarshaller()` [inline, virtual]

6.462.3 Member Function Documentation

6.462.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.462.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.462.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.462.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.462.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.462.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.462.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ReplayCommandMarshaller.h**

6.463 activemq::cmsutil::CmsTemplate::ResolveProducerExecutor Class Reference

#include <src/main/activemq/cmsutil/CmsTemplate.h> Inheritance diagram for activemq::cmsutil::CmsTemplate::ResolveProducerExecutor:

Public Member Functions

- **ResolveProducerExecutor** (**ProducerCallback** **action*, **CmsTemplate** **parent*, const std::string &*destinationName*)
- virtual ~**ResolveProducerExecutor** ()
- virtual **cms::Destination** * **getDestination** (**cms::Session** **session*) throw (cms::CMSException)

6.463.1 Constructor & Destructor Documentation

6.463.1.1 **activemq::cmsutil::CmsTemplate::ResolveProducerExecutor::ResolveProducerExecutor** (**ProducerCallback** * *action*, **CmsTemplate** * *parent*, const std::string & *destinationName*) [inline]

6.463.1.2 virtual **activemq::cmsutil::CmsTemplate::ResolveProducerExecutor::~~ResolveProducerExecutor** () [inline, virtual]

6.463.2 Member Function Documentation

6.463.2.1 virtual **cms::Destination*** **activemq::cmsutil::CmsTemplate::ResolveProducerExecutor::getDestination** (**cms::Session** * *session*) throw (cms::CMSException) [virtual]

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/**CmsTemplate.h**

6.464 activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor Class Reference

#include <src/main/activemq/cmsutil/CmsTemplate.h> Inheritance diagram for activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor:

Public Member Functions

- **ResolveReceiveExecutor** (**CmsTemplate** ***parent**, const std::string &**selector**, bool **noLocal**, const std::string &**destinationName**)
- virtual ~**ResolveReceiveExecutor** ()
- virtual **cms::Destination** * **getDestination** (**cms::Session** ***session**) throw (**cms::CMSEException**)

6.464.1 Constructor & Destructor Documentation

6.464.1.1 **activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor::ResolveReceiveExecutor** (**CmsTemplate** * *parent*, const std::string & *selector*, bool *noLocal*, const std::string & *destinationName*) [inline]

6.464.1.2 virtual **activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor::~~ResolveReceiveExecutor** () [inline, virtual]

6.464.2 Member Function Documentation

6.464.2.1 virtual **cms::Destination*** **activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor::getDestination** (**cms::Session** * *session*) throw (**cms::CMSEException**) [virtual]

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/**CmsTemplate.h**

6.465 activemq::cmsutil::ResourceLifecycleManager Class Reference

Manages the lifecycle of a set of CMS resources.

```
#include <src/main/activemq/cmsutil/ResourceLifecycleManager.h>
```

Public Member Functions

- **ResourceLifecycleManager** ()
- virtual **~ResourceLifecycleManager** ()
*Destructor - calls **destroy**.*
- void **addConnection** (**cms::Connection** *connection)
Adds a connection so that its life will be managed by this object.
- void **addSession** (**cms::Session** *session)
Adds a session so that its life will be managed by this object.
- void **addDestination** (**cms::Destination** *dest)
Adds a destination so that its life will be managed by this object.
- void **addMessageProducer** (**cms::MessageProducer** *producer)
Adds a message producer so that its life will be managed by this object.
- void **addMessageConsumer** (**cms::MessageConsumer** *consumer)
Adds a message consumer so that its life will be managed by this object.
- void **destroy** () throw (cms::CMSException)
Closes and destroys the contained CMS resources.
- void **releaseAll** ()
Releases all of the contained resources so that this object will no longer control their lifetimes.

6.465.1 Detailed Description

Manages the lifecycle of a set of CMS resources. A call to **destroy** will close and destroy all of the contained resources in the appropriate manner.

6.465.2 Constructor & Destructor Documentation

6.465.2.1 **activemq::cmsutil::ResourceLifecycleManager::ResourceLifecycleManager** ()

6.465.2.2 **virtual**
activemq::cmsutil::ResourceLifecycleManager::~~ResourceLifecycleManager () [virtual]

Destructor - calls **destroy**.

6.465.3 Member Function Documentation

6.465.3.1 void activemq::cmsutil::ResourceLifecycleManager::addConnection
(cms::Connection * *connection*) [inline]

Adds a connection so that its life will be managed by this object.

Parameters:

connection the object to be managed

6.465.3.2 void activemq::cmsutil::ResourceLifecycleManager::addDestination
(cms::Destination * *dest*) [inline]

Adds a destination so that its life will be managed by this object.

Parameters:

dest the object to be managed

6.465.3.3 void activemq::cmsutil::ResourceLifecycleManager::addMessageConsumer
(cms::MessageConsumer * *consumer*) [inline]

Adds a message consumer so that its life will be managed by this object.

Parameters:

consumer the object to be managed

6.465.3.4 void activemq::cmsutil::ResourceLifecycleManager::addMessageProducer
(cms::MessageProducer * *producer*) [inline]

Adds a message producer so that its life will be managed by this object.

Parameters:

producer the object to be managed

6.465.3.5 void activemq::cmsutil::ResourceLifecycleManager::addSession
(cms::Session * *session*) [inline]

Adds a session so that its life will be managed by this object.

Parameters:

session the object to be managed

6.465.3.6 void activemq::cmsutil::ResourceLifecycleManager::destroy () throw (cms::CMSException)

Closes and destroys the contained CMS resources.

Exceptions:

cms::CMSException (p. 850) thrown if an error occurs.

6.465.3.7 void activemq::cmsutil::ResourceLifecycleManager::releaseAll ()

Releases all of the contained resources so that this object will no longer control their lifetimes.

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/**ResourceLifecycleManager.h**

6.466 activemq::commands::Response Class Reference

#include <src/main/activemq/commands/Response.h> Inheritance diagram for activemq::commands::Response:

Public Member Functions

- **Response** ()
- virtual **~Response** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **Response** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual int **getCorrelationId** () const
- virtual void **setCorrelationId** (int correlationId)
- virtual bool **isResponse** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_RESPONSE** = 30

Protected Member Functions

- **Response** (const **Response** &)
- **Response** & **operator=** (const **Response** &)

Protected Attributes

- int **correlationId**

6.466.1 Constructor & Destructor Documentation

6.466.1.1 `activemq::commands::Response::Response (const Response &) [inline, protected]`

6.466.1.2 `activemq::commands::Response::Response ()`

6.466.1.3 `virtual activemq::commands::Response::~~Response () [virtual]`

6.466.2 Member Function Documentation

6.466.2.1 `virtual Response* activemq::commands::Response::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

Reimplemented in `activemq::commands::DataArrayResponse` (p. 1102), `activemq::commands::DataResponse` (p. 1133), `activemq::commands::ExceptionResponse` (p. 1277), and `activemq::commands::IntegerResponse` (p. 1443).

6.466.2.2 `virtual void activemq::commands::Response::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

Reimplemented in `activemq::commands::DataArrayResponse` (p. 1102), `activemq::commands::DataResponse` (p. 1133), `activemq::commands::ExceptionResponse` (p. 1277), and `activemq::commands::IntegerResponse` (p. 1443).

6.466.2.3 `virtual bool activemq::commands::Response::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if `DataStructure`'s are Equal.

Reimplemented from **activemq::commands::BaseCommand** (p. 508).

Reimplemented in **activemq::commands::DataArrayResponse** (p. 1102), **activemq::commands::DataResponse** (p. 1133), **activemq::commands::ExceptionResponse** (p. 1277), and **activemq::commands::IntegerResponse** (p. 1443).

6.466.2.4 `virtual int activemq::commands::Response::getCorrelationId () const`
[virtual]

6.466.2.5 `virtual unsigned char activemq::commands::Response::getDataStructureType ()`
`const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

Reimplemented in **activemq::commands::DataArrayResponse** (p. 1103), **activemq::commands::DataResponse** (p. 1134), **activemq::commands::ExceptionResponse** (p. 1277), and **activemq::commands::IntegerResponse** (p. 1443).

6.466.2.6 `virtual bool activemq::commands::Response::isResponse () const`
[inline, virtual]

Returns:

an answer of true to the **isResponse()** (p. 2233) query.

Reimplemented from **activemq::commands::BaseCommand** (p. 511).

6.466.2.7 `Response& activemq::commands::Response::operator= (const Response &)` [inline, protected]

Reimplemented in **activemq::commands::DataArrayResponse** (p. 1103), **activemq::commands::DataResponse** (p. 1134), **activemq::commands::ExceptionResponse** (p. 1278), and **activemq::commands::IntegerResponse** (p. 1444).

6.466.2.8 `virtual void activemq::commands::Response::setCorrelationId (int correlationId)` [virtual]

6.466.2.9 `virtual std::string activemq::commands::Response::toString () const`
[virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p. 512).

Reimplemented in `activemq::commands::DataArrayResponse` (p. 1103), `activemq::commands::DataResponse` (p. 1134), `activemq::commands::ExceptionResponse` (p. 1278), and `activemq::commands::IntegerResponse` (p. 1444).

6.466.2.10 `virtual Pointer<Command> activemq::commands::Response::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a `Response` (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p. 883).

6.466.3 Field Documentation

6.466.3.1 `int activemq::commands::Response::correlationId` [protected]

6.466.3.2 `const unsigned char activemq::commands::Response::ID_RESPONSE = 30` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/Response.h`

6.467 activemq::transport::mock::ResponseBuilder Class Reference

Interface for all Protocols to implement that defines the behavior of the Broker in response to messages of that protocol.

#include <src/main/activemq/transport/mock/ResponseBuilder.h> Inheritance diagram for activemq::transport::mock::ResponseBuilder:

Public Member Functions

- virtual **~ResponseBuilder** ()
- virtual **Pointer< Response > buildResponse** (const **Pointer< Command > &command**)=0
Given a Command, check if it requires a response and return the appropriate Response that the Broker would send for this Command.
- virtual void **buildIncomingCommands** (const **Pointer< Command > &command**, **decaf::util::StlQueue< Pointer< Command > > &queue**)=0
*When called the **ResponseBuilder** (p. 2235) must construct all the Responses or Asynchronous commands (p. 59) that would be sent to this client by the Broker upon receipt of the passed command.*

6.467.1 Detailed Description

Interface for all Protocols to implement that defines the behavior of the Broker in response to messages of that protocol.

6.467.2 Constructor & Destructor Documentation

6.467.2.1 virtual **activemq::transport::mock::ResponseBuilder::~~ResponseBuilder** () [inline, virtual]

6.467.3 Member Function Documentation

6.467.3.1 virtual void **activemq::transport::mock::ResponseBuilder::buildIncomingCommands** (const **Pointer< Command > &command**, **decaf::util::StlQueue< Pointer< Command > > &queue**) [pure virtual]

When called the **ResponseBuilder** (p. 2235) must construct all the Responses or Asynchronous commands (p. 59) that would be sent to this client by the Broker upon receipt of the passed command.

Parameters:

command - The Command being sent to the Broker.

queue - Queue of Command sent back from the broker.

Implemented in `activemq::wireformat::openwire::OpenWireResponseBuilder` (p. 1988).

6.467.3.2 `virtual Pointer<Response> activemq::transport::mock::ResponseBuilder::buildResponse(const Pointer< Command > & command)` [pure virtual]

Given a Command, check if it requires a response and return the appropriate Response that the Broker would send for this Command.

Parameters:

command - The command to build a response for

Returns:

A Response object pointer, or NULL if no response.

Implemented in `activemq::wireformat::openwire::OpenWireResponseBuilder` (p. 1989).

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/mock/ResponseBuilder.h`

6.468 activemq::transport::correlator::ResponseCorrelator Class Reference

This type of **transport** (p.67) filter is responsible for correlating asynchronous responses with requests.

#include <src/main/activemq/transport/correlator/ResponseCorrelator.h> Inheritance diagram for activemq::transport::correlator::ResponseCorrelator:

Public Member Functions

- **ResponseCorrelator** (const **Pointer**< **Transport** > &next)
Constructor.
- virtual ~**ResponseCorrelator** ()
- virtual void **oneway** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends a one-way command.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given request to the server and waits for the response.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command, unsigned int timeout) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given request to the server and waits for the response.
- virtual void **onCommand** (const **Pointer**< **Command** > &command)
This is called in the context of the nested transport's reading thread.
- virtual void **start** () throw (cms::CMSException)
*Starts this **transport** (p.67) object and creates the thread for polling on the input stream for **commands** (p.59).*
- virtual void **close** () throw (cms::CMSException)
Stops the polling thread and closes the streams.
- virtual void **onTransportException** (**Transport** *source, const decaf::lang::Exception &ex)
*Event handler for an exception from a command **transport** (p.67).*

6.468.1 Detailed Description

This type of **transport** (p.67) filter is responsible for correlating asynchronous responses with requests. Non-response messages are simply sent directly to the CommandListener. It owns the **transport** (p.67) that it

6.468.2 Constructor & Destructor Documentation

6.468.2.1 `activemq::transport::correlator::ResponseCorrelator::ResponseCorrelator (const Pointer< Transport > & next)`

Constructor.

Parameters:

next the next **transport** (p. 67) in the chain

6.468.2.2 `virtual activemq::transport::correlator::ResponseCorrelator::~ResponseCorrelator ()` [virtual]

6.468.3 Member Function Documentation

6.468.3.1 `virtual void activemq::transport::correlator::ResponseCorrelator::close ()` throw (`cms::CMSException`) [virtual]

Stops the polling thread and closes the streams. This can be called explicitly, but is also called in the destructor. Once this object has been closed, it cannot be restarted.

Exceptions:

CMSException if errors occur.

Reimplemented from `activemq::transport::TransportFilter` (p. 2618).

6.468.3.2 `virtual void activemq::transport::correlator::ResponseCorrelator::onCommand (const Pointer< Command > & command)` [virtual]

This is called in the context of the nested transport's reading thread. In the case of a response object, updates the request map and notifies those waiting on the response. Non-response messages are just delegated to the command listener.

Parameters:

command the received from the nested **transport** (p. 67).

Reimplemented from `activemq::transport::TransportFilter` (p. 2620).

6.468.3.3 `virtual void activemq::transport::correlator::ResponseCorrelator::oneway (const Pointer< Command > & command)` throw (`decaf::io::IOException`, `decaf::lang::exceptions::UnsupportedOperationException`) [virtual]

Sends a one-way command. Does not wait for any response from the broker.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Reimplemented from **activemq::transport::TransportFilter** (p. 2620).

6.468.3.4 virtual void activemq::transport::correlator::ResponseCorrelator::onTransportException (Transport * *source*, const decaf::lang::Exception & *ex*) [virtual]

Event handler for an exception from a command **transport** (p. 67).

Parameters:

source The source of the exception

ex The exception.

6.468.3.5 virtual Pointer<Response> activemq::transport::correlator::ResponseCorrelator::request (const Pointer< Command > & *command*, unsigned int *timeout*) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Sends the given request to the server and waits for the response.

Parameters:

command The request to send.

timeout The time to wait for a response.

Returns:

the response from the server.

Exceptions:

IOException if an error occurs with the request.

Reimplemented from **activemq::transport::TransportFilter** (p. 2621).

6.468.3.6 virtual Pointer<Response> activemq::transport::correlator::ResponseCorrelator::request (const Pointer< Command > & *command*) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]

Sends the given request to the server and waits for the response.

Parameters:

command The request to send.

Returns:

the response from the server.

Exceptions:

IOException if an error occurs with the request.

Reimplemented from **activemq::transport::TransportFilter** (p. 2622).

**6.468.3.7 virtual void activemq::transport::correlator::ResponseCorrelator::start ()
throw (cms::CMSException) [virtual]**

Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59). If this object has been closed, throws an exception. Before calling start, the caller must set the IO streams and the reader and writer objects.

Exceptions:

CMSException if an error occurs or if this **transport** (p. 67) has already been closed.

Reimplemented from **activemq::transport::TransportFilter** (p. 2622).

The documentation for this class was generated from the following file:

- src/main/activemq/transport/correlator/**ResponseCorrelator.h**

6.469 activemq::wireformat::openwire::marshal::v2::ResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2241).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ResponseMarshaller:

Public Member Functions

- **ResponseMarshaller** ()
- virtual **~ResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.469.1 Detailed Description

Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2241). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.469.2 Constructor & Destructor Documentation

6.469.2.1 `activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::ResponseMarshaller()` [inline]

6.469.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::~~ResponseMarshaller()` [inline, virtual]

6.469.3 Member Function Documentation

6.469.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller` (p. 1113), `activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller` (p. 1144), `activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller` (p. 1288), and `activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller` (p. 1446).

6.469.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller` (p. 1113), `activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller` (p. 1144), `activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller` (p. 1288), and `activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller` (p. 1446).

6.469.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 529).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller** (p. 1113), **activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller** (p. 1144), **activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller** (p. 1288), and **activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller** (p. 1446).

6.469.3.4 virtual void activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 530).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller** (p. 1114), **activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller** (p. 1145), **activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller** (p. 1289), and **activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller** (p. 1447).

6.469.3.5 virtual int activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 531).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller** (p. 1114), **activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller** (p. 1145), **activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller** (p. 1289), and **activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller** (p. 1447).

6.469.3.6 virtual void **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller::tightMarshal2** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataOutputStream** * *dataOut*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller** (p. 1115), **activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller** (p. 1146), **activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller** (p. 1290), and **activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller** (p. 1448).

```
6.469.3.7 virtual void ac-
tivemq::wireformat::openwire::marshal::v2::ResponseMarshaller::tightUnmarshal
(OpenWireFormat * wireFormat, commands::DataStructure
* dataStructure, decaf::io::DataInputStream * dataIn,
utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller** (p. 1115), **activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller** (p. 1146), **activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller** (p. 1290), and **activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller** (p. 1448).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ResponseMarshaller.h**

6.470 activemq::wireformat::openwire::marshal::v3::ResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2246).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ResponseMarshaller:

Public Member Functions

- **ResponseMarshaller** ()
- virtual **~ResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.470.1 Detailed Description

Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2246). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.470.2 Constructor & Destructor Documentation

6.470.2.1 `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::ResponseMarshaller()` [inline]

6.470.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::~~ResponseMarshaller()` [inline, virtual]

6.470.3 Member Function Documentation

6.470.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1105), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1136), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1280), and `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1454).

6.470.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1105), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1136), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1280), and `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1454).

6.470.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 515).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller** (p. 1105), **activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller** (p. 1136), **activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller** (p. 1280), and **activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller** (p. 1454).

6.470.3.4 virtual void activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 516).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller** (p. 1106), **activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller** (p. 1137), **activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller** (p. 1281), and **activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller** (p. 1455).

6.470.3.5 virtual int activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
bs - `BooleanStream` stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1106), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1137), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1281), and `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1455).

6.470.3.6 virtual void `activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::tightMarshal2`
(`OpenWireFormat * wireFormat`, `commands::DataStructure`
* *dataStructure*, `decaf::io::DataOutputStream * dataOut`,
`utils::BooleanStream * bs`) throw (`decaf::io::IOException`) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - `BinaryReader` that provides that data sink
bs - `BooleanStream` stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 518).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1107), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1138), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1282), and `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1456).

```
6.470.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ResponseMarshaller::tightUnmarshal
(OpenWireFormat * wireFormat, commands::DataStructure
 * dataStructure, decaf::io::DataInputStream * dataIn,
 utils::BooleanStream * bs) throw ( decaf::io::IOException ) [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 519).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller` (p. 1107), `activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller` (p. 1138), `activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller` (p. 1282), and `activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller` (p. 1456).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/ResponseMarshaller.h`

6.471 activemq::wireformat::openwire::marshal::v1::ResponseMarshaller Class Reference

Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2251).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ResponseMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ResponseMarshaller:

Public Member Functions

- **ResponseMarshaller** ()
- virtual **~ResponseMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.471.1 Detailed Description

Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2251). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.471.2 Constructor & Destructor Documentation

6.471.2.1 `activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::ResponseMarshaller()` [inline]

6.471.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::~~ResponseMarshaller()` [inline, virtual]

6.471.3 Member Function Documentation

6.471.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1109), `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1140), `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1284), and `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1450).

6.471.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller` (p. 1109), `activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller` (p. 1140), `activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller` (p. 1284), and `activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller` (p. 1450).

6.471.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 522).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller** (p. 1109), **activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller** (p. 1140), **activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller** (p. 1284), and **activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller** (p. 1450).

6.471.3.4 virtual void activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 523).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller** (p. 1110), **activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller** (p. 1141), **activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller** (p. 1285), and **activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller** (p. 1451).

6.471.3.5 virtual int activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 524).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller** (p. 1110), **activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller** (p. 1141), **activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller** (p. 1285), and **activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller** (p. 1451).

6.471.3.6 virtual void ac-
tivemq::wireformat::openwire::marshal::v1::ResponseMarshaller::tightMarshal2
(OpenWireFormat * wireFormat, commands::DataStructure
*** dataStructure, decaf::io::DataOutputStream * dataOut,**
utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller** (p. 1111), **activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller** (p. 1142), **activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller** (p. 1286), and **activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller** (p. 1452).

6.471.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ResponseMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller** (p. 1111), **activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller** (p. 1142), **activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller** (p. 1286), and **activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller** (p. 1452).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ResponseMarshaller.h**

6.472 decaf::lang::Runnable Class Reference

Interface for a runnable object - defines a task that can be run by a thread.

#include <src/main/decaf/lang/Runnable.h>Inheritance diagram for decaf::lang::Runnable:

Public Member Functions

- virtual `~Runnable()`
- virtual void `run()`=0

*Run method - called by the **Thread** (p. 2544) class in the context of the thread.*

6.472.1 Detailed Description

Interface for a runnable object - defines a task that can be run by a thread.

6.472.2 Constructor & Destructor Documentation

6.472.2.1 virtual decaf::lang::Runnable::~~Runnable() [inline, virtual]

6.472.3 Member Function Documentation

6.472.3.1 virtual void decaf::lang::Runnable::run() [pure virtual]

Run method - called by the **Thread** (p. 2544) class in the context of the thread.

Implemented in **activemq::threads::CompositeTaskRunner** (p. 909), **activemq::threads::DedicatedTaskRunner** (p. 1183), **activemq::transport::IOTransport** (p. 1485), **activemq::transport::mock::InternalCommandListener** (p. 1458), **decaf::lang::Thread** (p. 2545), and **decaf::util::concurrent::PooledThread** (p. 2033).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**Runnable.h**

6.473 decaf::lang::Runtime Class Reference

#include <src/main/decaf/lang/Runtime.h> Inheritance diagram for decaf::lang::Runtime:

Public Member Functions

- virtual `~Runtime ()`

Static Public Member Functions

- static `Runtime * getRuntime ()`
*Gets the single instance of the Decaf **Runtime** (p. 2257) for this Process.*
- static void `initializeRuntime (int argc, char **argv)`
Initialize the Decaf Library passing it the args that were passed to the application at startup.
- static void `initializeRuntime ()`
Initialize the Decaf Library.
- static void `shutdownRuntime ()`
Shutdown the Decaf Library, this call should take places after all objects that were created from the Decaf library have been deallocated.

6.473.1 Constructor & Destructor Documentation

6.473.1.1 virtual `decaf::lang::Runtime::~~Runtime ()` [inline, virtual]

6.473.2 Member Function Documentation

6.473.2.1 static `Runtime* decaf::lang::Runtime::getRuntime ()` [static]

Gets the single instance of the Decaf **Runtime** (p. 2257) for this Process.

Returns:

pointer to the single Decaf **Runtime** (p. 2257) instance that exists for this process

6.473.2.2 static void `decaf::lang::Runtime::initializeRuntime ()` [static]

Initialize the Decaf Library.

Exceptions:

runtime_error if the library is already initialized or an error occurs during initialization.

6.473.2.3 `static void decaf::lang::Runtime::initializeRuntime (int argc, char **argv)` [static]

Initialize the Decaf Library passing it the args that were passed to the application at startup.

Parameters:

argc - The number of args passed

argv - Array of char* values passed to the Process on start.

Exceptions:

runtime_error if the library is already initialized or an error occurs during initialization.

6.473.2.4 `static void decaf::lang::Runtime::shutdownRuntime ()` [static]

Shutdown the Decaf Library, this call should take places after all objects that were created from the Decaf library have been deallocated.

Exceptions:

runtime_error if the library has not already been initialized or an error occurs during shutdown.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/`**Runtime.h**

6.474 decaf::lang::exceptions::RuntimeException Class Reference

#include <src/main/decaf/lang/exceptions/RuntimeException.h> Inheritance diagram for decaf::lang::exceptions::RuntimeException:

Public Member Functions

- **RuntimeException** () throw ()
Default Constructor.
- **RuntimeException** (const **Exception** &ex) throw ()
Conversion Constructor from some other ActiveMQException.
- **RuntimeException** (const **RuntimeException** &ex) throw ()
Copy Constructor.
- **RuntimeException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **RuntimeException** (const std::exception *cause) throw ()
Constructor.
- **RuntimeException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **RuntimeException** * clone () const
Clones this exception.
- virtual ~**RuntimeException** () throw ()

6.474.1 Constructor & Destructor Documentation

6.474.1.1 decaf::lang::exceptions::RuntimeException::RuntimeException () throw () [inline]

Default Constructor.

6.474.1.2 decaf::lang::exceptions::RuntimeException::RuntimeException (const Exception & ex) throw () [inline]

Conversion Constructor from some other ActiveMQException.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.474.1.3 `decaf::lang::exceptions::RuntimeException::RuntimeException (const RuntimeException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex The **Exception** (p. 1268) whose data is to be copied into this one.

6.474.1.4 `decaf::lang::exceptions::RuntimeException::RuntimeException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.474.1.5 `decaf::lang::exceptions::RuntimeException::RuntimeException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.474.1.6 `decaf::lang::exceptions::RuntimeException::RuntimeException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.474.1.7 virtual decaf::lang::exceptions::RuntimeException::~~RuntimeException
() throw () [inline, virtual]

6.474.2 Member Function Documentation

6.474.2.1 virtual RuntimeException* decaf::lang::exceptions::RuntimeException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p.1268) that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p.1271).

The documentation for this class was generated from the following file:

- src/main/decaf/lang/exceptions/**RuntimeException.h**

6.475 decaf::security_provider::SecurityProvider Class Reference

```
#include <src/main/decaf/security_provider/SecurityProvider.h>
```

Public Member Functions

- virtual `~SecurityProvider ()`
- virtual `X500Principal * createX500Principal (const std::string &name)=0`
- virtual `X500Principal * createX500Principal (InputStream &is)=0`
- virtual `X500Principal * createX500Principal (unsigned char *buffer, int offset, int len)=0`

6.475.1 Constructor & Destructor Documentation

- 6.475.1.1 virtual `decaf::security_provider::SecurityProvider::~~SecurityProvider ()`
[inline, virtual]

6.475.2 Member Function Documentation

- 6.475.2.1 virtual `X500Principal* decaf::security_provider::SecurityProvider::createX500Principal (unsigned char * buffer, int offset, int len)` [pure virtual]
- 6.475.2.2 virtual `X500Principal* decaf::security_provider::SecurityProvider::createX500Principal (InputStream & is)` [pure virtual]
- 6.475.2.3 virtual `X500Principal* decaf::security_provider::SecurityProvider::createX500Principal (const std::string & name)` [pure virtual]

The documentation for this class was generated from the following file:

- `src/main/decaf/security_provider/SecurityProvider.h`

6.476 decaf::security_provider::SecurityProviderMap Class Reference

Lookup Map for Connector Factories.

```
#include <src/main/decaf/security_provider/SecurityProviderMap.h>
```

Public Member Functions

- void **registerSecurityProvider** (const std::string &name, **SecurityProvider** *provider)
Registers a new provider with this map.
- void **unregisterSecurityProvider** (const std::string &name)
Unregisters a provider from this map.
- **SecurityProvider** * **lookup** (const std::string &name)
Lookup the named provider in the Map.
- std::size_t **getSecurityProviderNames** (std::vector< std::string > &providers)
Fetch a list of provider names that this Map contains.

Static Public Member Functions

- static **SecurityProviderMap** * **getInstance** ()
Gets a singleton instance of this class.

6.476.1 Detailed Description

Lookup Map for Connector Factories. Use the Connector name to find the associated factory. This class does not take ownership of the stored factories, they must be deallocated somewhere.

6.476.2 Member Function Documentation

6.476.2.1 static **SecurityProviderMap*** decaf::security_provider::SecurityProviderMap::getInstance () [static]

Gets a singleton instance of this class.

Referenced by decaf::security_provider::SecurityProviderRegistrar::SecurityProviderRegistrar(), and decaf::security_provider::SecurityProviderRegistrar::~~SecurityProviderRegistrar().

6.476.2.2 std::size_t decaf::security_provider::SecurityProviderMap::getSecurityProviderNames (std::vector< std::string > & providers)

Fetch a list of provider names that this Map contains.

Parameters:

providers A vector object to receive the list

Returns:

count of providers.

**6.476.2.3 SecurityProvider* decaf::security_ -
 provider::SecurityProviderMap::lookup (const std::string
 & *name*)**

Lookup the named provider in the Map.

Parameters:

name the provider name to lookup

Returns:

the provider associated with the name, or NULL

**6.476.2.4 void decaf::security_ -
 provider::SecurityProviderMap::registerSecurityProvider
 (const std::string & *name*, SecurityProvider * *provider*)**

Registers a new provider with this map.

Parameters:

name A name to associate the provider with
provider the provider object to store in the map.

**6.476.2.5 void decaf::security_ -
 provider::SecurityProviderMap::unregisterSecurityProvider (const
 std::string & *name*)**

Unregisters a provider from this map.

Parameters:

name the name of the provider to remove

The documentation for this class was generated from the following file:

- src/main/decaf/security_provider/SecurityProviderMap.h

6.477 decaf::security_provider::SecurityProviderRegistrar Class Reference

Registers the passed in provider into the provider map, this class can manage the lifetime of the registered provider (default behaviour).

```
#include <src/main/decaf/security_provider/SecurityProviderRegistrar.h>
```

Public Member Functions

- **SecurityProviderRegistrar** (const std::string &name, **SecurityProvider** *provider, bool manageLifetime=true)
Creates a registrar and registers the provider with the provider map.
- virtual ~**SecurityProviderRegistrar** ()
Unregisters the provider from the provider map and destroys it if `manageLifetime` is set.
- virtual **SecurityProvider** * **getProvider** ()
get a reference to the factory that this class is holding

6.477.1 Detailed Description

Registers the passed in provider into the provider map, this class can manage the lifetime of the registered provider (default behaviour).

6.477.2 Constructor & Destructor Documentation

6.477.2.1 decaf::security_provider::SecurityProviderRegistrar::SecurityProviderRegistrar (const std::string & *name*, **SecurityProvider** * *provider*, bool *manageLifetime* = true) [inline]

Creates a registrar and registers the provider with the provider map.

Parameters:

name name of the provider to register

provider the provider object

manageLifetime boolean indicating if this object manages the lifetime of the factory that is being registered.

References decaf::security_provider::SecurityProviderMap::getInstance().

6.477.2.2 virtual decaf::security_provider::SecurityProviderRegistrar::~SecurityProviderRegistrar () [inline, virtual]

Unregisters the provider from the provider map and destroys it if `manageLifetime` is set.

References decaf::security_provider::SecurityProviderMap::getInstance().

6.477.3 Member Function Documentation

6.477.3.1 `virtual SecurityProvider* decaf::security_
provider::SecurityProviderRegistrar::getProvider ()
[inline, virtual]`

get a reference to the factory that this class is holding

Returns:

reference to a factory class

The documentation for this class was generated from the following file:

- `src/main/decaf/security_provider/SecurityProviderRegistrar.h`

6.478 activemq::cmsutil::CmsTemplate::SendExecutor Class Reference

#include <src/main/activemq/cmsutil/CmsTemplate.h> Inheritance diagram for activemq::cmsutil::CmsTemplate::SendExecutor:

Public Member Functions

- **SendExecutor** (**MessageCreator** *messageCreator, **CmsTemplate** *parent)
- virtual **~SendExecutor** ()
- virtual void **doInCms** (**cms::Session** *session, **cms::MessageProducer** *producer) throw (**cms::CMSEException**)

Execute an action given a session and producer.

6.478.1 Constructor & Destructor Documentation

6.478.1.1 **activemq::cmsutil::CmsTemplate::SendExecutor::SendExecutor** (**MessageCreator** * *messageCreator*, **CmsTemplate** * *parent*) [inline]

6.478.1.2 **virtual activemq::cmsutil::CmsTemplate::SendExecutor::~~SendExecutor** () [inline, virtual]

6.478.2 Member Function Documentation

6.478.2.1 **virtual void activemq::cmsutil::CmsTemplate::SendExecutor::doInCms** (**cms::Session** * *session*, **cms::MessageProducer** * *producer*) throw (**cms::CMSEException**) [inline, virtual]

Execute an action given a session and producer.

Parameters:

session the CMS Session

producer the CMS Producer

Exceptions:

cms::CMSEException (p. 850) if thrown by CMS API methods

Implements **activemq::cmsutil::ProducerCallback** (p. 2102).

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/**CmsTemplate.h**

6.479 decaf::net::ServerSocket Class Reference

A server socket class (for testing purposes).

```
#include <src/main/decaf/net/ServerSocket.h>
```

Public Types

- typedef apr_socket_t * **SocketHandle**
- typedef apr_sockaddr_t * **SocketAddress**

Public Member Functions

- **ServerSocket** ()
Constructor.
- virtual ~**ServerSocket** ()
Destructor.
- virtual void **bind** (const char *host, int port) throw (SocketException)
Bind and listen to given IP/dns and port.
- virtual void **bind** (const char *host, int port, int backlog) throw (SocketException)
Bind and listen to given IP/dns and port.
- virtual **Socket** * **accept** () throw (SocketException)
Blocks until a client connects to the bound socket.
- virtual void **close** () throw (lang::Exception)
Closes the server socket.
- virtual bool **isBound** () const

6.479.1 Detailed Description

A server socket class (for testing purposes).

6.479.2 Member Typedef Documentation

6.479.2.1 typedef apr_sockaddr_t* decaf::net::ServerSocket::SocketAddress

6.479.2.2 typedef apr_socket_t* decaf::net::ServerSocket::SocketHandle

6.479.3 Constructor & Destructor Documentation

6.479.3.1 decaf::net::ServerSocket::ServerSocket ()

Constructor. Creates a non-bound server socket.

6.479.3.2 virtual decaf::net::ServerSocket::~~ServerSocket () [virtual]

Destructor. Releases socket handle if `close()` (p. 2269) hasn't been called.

6.479.4 Member Function Documentation**6.479.4.1 virtual Socket* decaf::net::ServerSocket::accept () throw (SocketException) [virtual]**

Blocks until a client connects to the bound socket.

Returns:

new socket. Never returns NULL.

6.479.4.2 virtual void decaf::net::ServerSocket::bind (const char * *host*, int *port*, int *backlog*) throw (SocketException) [virtual]

Bind and listen to given IP/dns and port.

Parameters:

host IP address or host name.

port TCP port between 1..65535

backlog Size of listen backlog.

6.479.4.3 virtual void decaf::net::ServerSocket::bind (const char * *host*, int *port*) throw (SocketException) [virtual]

Bind and listen to given IP/dns and port.

Parameters:

host IP address or host name.

port TCP port between 1..65535

6.479.4.4 virtual void decaf::net::ServerSocket::close () throw (lang::Exception) [virtual]

Closes the server socket.

6.479.4.5 virtual bool decaf::net::ServerSocket::isBound () const [virtual]**Returns:**

true if the server socket is bound.

The documentation for this class was generated from the following file:

- `src/main/decaf/net/ServerSocket.h`

6.480 cms::Session Class Reference

A **Session** (p. 2270) object is a single-threaded context for producing and consuming messages.

#include <src/main/cms/Session.h> Inheritance diagram for cms::Session:

Public Types

- enum **AcknowledgeMode** {
AUTO_ACKNOWLEDGE, **DUPS_OK_ACKNOWLEDGE**, **CLIENT_-ACKNOWLEDGE**, **SESSION_TRANSACTIONED**,
INDIVIDUAL_ACKNOWLEDGE }

Public Member Functions

- virtual **~Session** ()
- virtual void **close** ()=0 throw (CMSEException)
Closes this session as well as any active child consumers or producers.
- virtual void **commit** ()=0 throw (CMSEException)
Commits all messages done in this transaction and releases any locks currently held.
- virtual void **rollback** ()=0 throw (CMSEException)
Rolls back all messages done in this transaction and releases any locks currently held.
- virtual void **recover** ()=0 throw (CMSEException)
Stops message delivery in this session, and restarts message delivery with the oldest unacknowledged message.
- virtual **MessageConsumer** * **createConsumer** (const **Destination** *destination)=0 throw (CMSEException)
*Creates a **MessageConsumer** (p. 1795) for the specified destination.*
- virtual **MessageConsumer** * **createConsumer** (const **Destination** *destination, const std::string &selector)=0 throw (CMSEException)
*Creates a **MessageConsumer** (p. 1795) for the specified destination, using a message selector.*
- virtual **MessageConsumer** * **createConsumer** (const **Destination** *destination, const std::string &selector, bool noLocal)=0 throw (CMSEException)
*Creates a **MessageConsumer** (p. 1795) for the specified destination, using a message selector.*
- virtual **MessageConsumer** * **createDurableConsumer** (const **Topic** *destination, const std::string &name, const std::string &selector, bool noLocal=false)=0 throw (CMSEException)
*Creates a durable subscriber to the specified topic, using a **Message** (p. 1753) selector.*
- virtual **MessageProducer** * **createProducer** (const **Destination** *destination)=0 throw (CMSEException)

*Creates a **MessageProducer** (p. 1878) to send messages to the specified destination.*

- virtual **QueueBrowser** * **createBrowser** (const **cms::Queue** *queue)=0 throw (CMSException)

*Creates a new **QueueBrowser** (p. 2158) to peek at Messages on the given **Queue** (p. 2157).*

- virtual **QueueBrowser** * **createBrowser** (const **cms::Queue** *queue, const std::string &selector)=0 throw (CMSException)

*Creates a new **QueueBrowser** (p. 2158) to peek at Messages on the given **Queue** (p. 2157).*

- virtual **Queue** * **createQueue** (const std::string &queueName)=0 throw (CMSException)

*Creates a queue identity given a **Queue** (p. 2157) name.*

- virtual **Topic** * **createTopic** (const std::string &topicName)=0 throw (CMSException)

*Creates a topic identity given a **Queue** (p. 2157) name.*

- virtual **TemporaryQueue** * **createTemporaryQueue** ()=0 throw (CMSException)

*Creates a **TemporaryQueue** (p. 2538) object.*

- virtual **TemporaryTopic** * **createTemporaryTopic** ()=0 throw (CMSException)

*Creates a **TemporaryTopic** (p. 2540) object.*

- virtual **Message** * **createMessage** ()=0 throw (CMSException)

*Creates a new **Message** (p. 1753).*

- virtual **BytesMessage** * **createBytesMessage** ()=0 throw (CMSException)

*Creates a **BytesMessage** (p. 759).*

- virtual **BytesMessage** * **createBytesMessage** (const unsigned char *bytes, std::size_t bytesSize)=0 throw (CMSException)

*Creates a **BytesMessage** (p. 759) and sets the payload to the passed value.*

- virtual **StreamMessage** * **createStreamMessage** ()=0 throw (CMSException)

*Creates a new **StreamMessage** (p. 2476).*

- virtual **TextMessage** * **createTextMessage** ()=0 throw (CMSException)

*Creates a new **TextMessage** (p. 2542).*

- virtual **TextMessage** * **createTextMessage** (const std::string &text)=0 throw (CMSException)

*Creates a new **TextMessage** (p. 2542) and set the text to the value given.*

- virtual **MapMessage** * **createMapMessage** ()=0 throw (CMSException)

*Creates a new **MapMessage** (p. 1701).*

- virtual **AcknowledgeMode** **getAcknowledgeMode** () const =0 throw (CMSException)

Returns the acknowledgment mode of the session.

- virtual bool **isTransacted** () const =0 throw (CMSEException)
*Gets if the Session is a Transacted **Session** (p. 2270).*
- virtual void **unsubscribe** (const std::string &name)=0 throw (CMSEException)
Unsubscribes a durable subscription that has been created by a client.

6.480.1 Detailed Description

A **Session** (p.2270) object is a single-threaded context for producing and consuming messages. A session serves several purposes:

- It is a factory for its message producers and consumers.
- It supplies provider-optimized message factories.
- It is a factory for TemporaryTopics and TemporaryQueues.
- It provides a way to create **Queue** (p. 2157) or **Topic** (p. 2571) objects for those clients that need to dynamically manipulate provider-specific destination names.
- It supports a single series of transactions that combine work spanning its producers and consumers into atomic units.
- It defines a serial order for the messages it consumes and the messages it produces.
- It retains messages it consumes until they have been acknowledged.
- It serializes execution of message listeners registered with its message consumers.

A session can create and service multiple message producers and consumers.

One typical use is to have a thread block on a synchronous **MessageConsumer** (p. 1795) until a message arrives. The thread may then use one or more of the Session's MessageProducers.

If a client desires to have one thread produce messages while others consume them, the client should use a separate session for its producing thread.

Certain rules apply to a session's **close** method and are detailed below.

- There is no need to close the producers and consumers of a closed session.
- The close call will block until a receive call or message listener in progress has completed. A blocked message consumer receive call returns null when this session is closed.
- Closing a transacted session must roll back the transaction in progress.
- The close method is the only **Session** (p. 2270) method that can be called concurrently.
- Invoking any other **Session** (p. 2270) method on a closed session must throw an **IllegalStateException** (p. 1399). Closing a closed session must not throw any exceptions.

Transacted Sessions

When a **Session** (p. 2270) is created it can be set to operate in a Transaction based mode. Each **Session** (p. 2270) then operates in a single transaction for all Producers and Consumers of that **Session** (p. 2270). Messages sent and received within a Transaction are grouped into an atomic unit that is committed or rolled back together.

For a **MessageProducer** (p. 1878) this implies that all messages sent by the producer are not sent to the Provider until the commit call is made. Rolling back the Transaction results in all produced Messages being dropped.

For a **MessageConsumer** (p. 1795) this implies that all received messages are not Acknowledged until the Commit call is made. Rolling back the Transaction results in all Consumed **Message** (p. 1753) being redelivered to the client, the Provider may allow configuration that limits the Maximum number of redeliveries for a **Message** (p. 1753).

Since:

1.0

6.480.2 Member Enumeration Documentation

6.480.2.1 enum cms::Session::AcknowledgeMode

Enumerator:

AUTO_ACKNOWLEDGE With this acknowledgment mode, the session automatically acknowledges a client's receipt of a message either when the session has successfully returned from a call to receive or when the message listener the session has called to process the message successfully returns.

DUPS_OK_ACKNOWLEDGE With this acknowledgment mode, the session automatically acknowledges a client's receipt of a message either when the session has successfully returned from a call to receive or when the message listener the session has called to process the message successfully returns. Acknowledgments may be delayed in this mode to increase performance at the cost of the message being redelivered this client fails.

CLIENT_ACKNOWLEDGE With this acknowledgment mode, the client acknowledges a consumed message by calling the message's acknowledge method.

SESSION_TRANSACTED Messages will be consumed when the transaction commits.

INDIVIDUAL_ACKNOWLEDGE **Message** (p. 1753) will be acknowledged individually. Normally the acks sent acknowledge the given message and all messages received before it, this mode only acknowledges one message.

6.480.3 Constructor & Destructor Documentation

6.480.3.1 virtual cms::Session::~~Session () [inline, virtual]

6.480.4 Member Function Documentation

6.480.4.1 virtual void cms::Session::close () throw (CMSEException) [pure virtual]

Closes this session as well as any active child consumers or producers.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implements **cms::Closeable** (p. 838).

Implemented in **activemq::cmsutil::PooledSession** (p. 2021), and **activemq::core::ActiveMQSession** (p. 356).

6.480.4.2 `virtual void cms::Session::commit () throw (CMSEException) [pure virtual]`

Commits all messages done in this transaction and releases any locks currently held.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

IllegalStateException (p. 1399) - if the method is not called by a transacted session.

Implemented in **activemq::cmsutil::PooledSession** (p. 2021), and **activemq::core::ActiveMQSession** (p. 357).

Referenced by **activemq::cmsutil::PooledSession::commit()**.

6.480.4.3 `virtual QueueBrowser* cms::Session::createBrowser (const cms::Queue * queue, const std::string & selector) throw (CMSEException) [pure virtual]`

Creates a new **QueueBrowser** (p. 2158) to peek at Messages on the given **Queue** (p. 2157).

Parameters:

queue the **Queue** (p. 2157) to browse

selector the **Message** (p. 1753) selector to filter which messages are browsed.

Returns:

New **QueueBrowser** (p. 2158) that is owned by the caller.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

InvalidDestinationException (p. 1466) - if the destination given is invalid.

Implemented in **activemq::cmsutil::PooledSession** (p. 2022), and **activemq::core::ActiveMQSession** (p. 357).

6.480.4.4 `virtual QueueBrowser* cms::Session::createBrowser (const cms::Queue * queue) throw (CMSEException) [pure virtual]`

Creates a new **QueueBrowser** (p. 2158) to peek at Messages on the given **Queue** (p. 2157).

Parameters:

queue the **Queue** (p. 2157) to browse

Returns:

New **QueueBrowser** (p. 2158) that is owned by the caller.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

InvalidDestinationException (p. 1466) - if the destination given is invalid.

Implemented in **activemq::cmsutil::PooledSession** (p. 2022), and **activemq::core::ActiveMQSession** (p. 357).

6.480.4.5 `virtual BytesMessage* cms::Session::createBytesMessage (const unsigned char * bytes, std::size_t bytesSize) throw (CMSEException) [pure virtual]`

Creates a **BytesMessage** (p. 759) and sets the payload to the passed value.

Parameters:

bytes an array of bytes to set in the message

bytesSize the size of the bytes array, or number of bytes to use

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2023), and **activemq::core::ActiveMQSession** (p. 358).

6.480.4.6 `virtual BytesMessage* cms::Session::createBytesMessage () throw (CMSEException) [pure virtual]`

Creates a **BytesMessage** (p. 759).

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2023), and **activemq::core::ActiveMQSession** (p. 358).

Referenced by `activemq::cmsutil::PooledSession::createBytesMessage()`.

6.480.4.7 `virtual MessageConsumer* cms::Session::createConsumer (const Destination * destination, const std::string & selector, bool noLocal) throw (CMSEException) [pure virtual]`

Creates a **MessageConsumer** (p. 1795) for the specified destination, using a message selector.

Parameters:

destination the **Destination** (p. 1190) that this consumer receiving messages for.

selector the **Message** (p. 1753) Selector to use

noLocal if true, and the destination is a topic, inhibits the delivery of messages published by its own connection. The behavior for NoLocal is not specified if the destination is a queue.

Returns:

pointer to a new **MessageConsumer** (p. 1795) that is owned by the caller (caller deletes)

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

InvalidDestinationException (p. 1466) - if an invalid destination is specified.

InvalidSelectorException (p. 1473) - if the message selector is invalid.

Implemented in **activemq::cmsutil::PooledSession** (p. 2024), and **activemq::core::ActiveMQSession** (p. 358).

6.480.4.8 virtual **MessageConsumer*** **cms::Session::createConsumer** (**const Destination * destination**, **const std::string & selector**) **throw (CMSEException)** [pure virtual]

Creates a **MessageConsumer** (p. 1795) for the specified destination, using a message selector.

Parameters:

destination the **Destination** (p. 1190) that this consumer receiving messages for.

selector the **Message** (p. 1753) Selector to use

Returns:

pointer to a new **MessageConsumer** (p. 1795) that is owned by the caller (caller deletes)

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

InvalidDestinationException (p. 1466) - if an invalid destination is specified.

InvalidSelectorException (p. 1473) - if the message selector is invalid.

Implemented in **activemq::cmsutil::PooledSession** (p. 2024), and **activemq::core::ActiveMQSession** (p. 359).

6.480.4.9 virtual **MessageConsumer*** **cms::Session::createConsumer** (**const Destination * destination**) **throw (CMSEException)** [pure virtual]

Creates a **MessageConsumer** (p. 1795) for the specified destination.

Parameters:

destination the **Destination** (p. 1190) that this consumer receiving messages for.

Returns:

pointer to a new **MessageConsumer** (p. 1795) that is owned by the caller (caller deletes)

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

InvalidDestinationException (p. 1466) - if an invalid destination is specified.

Implemented in **activemq::cmsutil::PooledSession** (p. 2025), and **activemq::core::ActiveMQSession** (p. 359).

Referenced by **activemq::cmsutil::PooledSession::createConsumer()**.

6.480.4.10 `virtual MessageConsumer* cms::Session::createDurableConsumer (const Topic * destination, const std::string & name, const std::string & selector, bool noLocal = false) throw (CMSEException) [pure virtual]`

Creates a durable subscriber to the specified topic, using a **Message** (p.1753) selector. Sessions that create durable consumers must use the same client Id as was used the last time the subscription was created in order to receive all messages that were delivered while the client was offline.

Parameters:

destination the topic to subscribe to

name The name used to identify the subscription

selector the **Message** (p.1753) Selector to use

noLocal if true, and the destination is a topic, inhibits the delivery of messages published by its own connection. The behavior for NoLocal is not specified if the destination is a queue.

Returns:

pointer to a new durable **MessageConsumer** (p.1795) that is owned by the caller (caller deletes)

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

InvalidDestinationException (p. 1466) - if an invalid destination is specified.

InvalidSelectorException (p. 1473) - if the message selector is invalid.

Implemented in **activemq::cmsutil::PooledSession** (p. 2025), and **activemq::core::ActiveMQSession** (p. 359).

Referenced by **activemq::cmsutil::PooledSession::createDurableConsumer()**.

6.480.4.11 `virtual MapMessage* cms::Session::createMapMessage () throw (CMSEException) [pure virtual]`

Creates a new **MapMessage** (p.1701).

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2026), and **activemq::core::ActiveMQSession** (p. 360).

Referenced by **activemq::cmsutil::PooledSession::createMapMessage()**.

6.480.4.12 `virtual Message* cms::Session::createMessage () throw (CMSException) [pure virtual]`

Creates a new **Message** (p.1753).

Exceptions:

CMSException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2026), and **activemq::core::ActiveMQSession** (p. 360).

Referenced by **activemq::cmsutil::PooledSession::createMessage()**.

6.480.4.13 `virtual MessageProducer* cms::Session::createProducer (const Destination * destination) throw (CMSException) [pure virtual]`

Creates a **MessageProducer** (p.1878) to send messages to the specified destination.

Parameters:

destination the **Destination** (p.1190) to send on

Returns:

New **MessageProducer** (p.1878) that is owned by the caller.

Exceptions:

CMSException (p. 850) - If an internal error occurs.

InvalidDestinationException (p. 1466) - if an invalid destination is specified.

Implemented in **activemq::cmsutil::PooledSession** (p. 2026), and **activemq::core::ActiveMQSession** (p. 360).

Referenced by **activemq::cmsutil::PooledSession::createProducer()**.

6.480.4.14 `virtual Queue* cms::Session::createQueue (const std::string & queueName) throw (CMSException) [pure virtual]`

Creates a queue identity given a **Queue** (p.2157) name.

Parameters:

queueName the name of the new **Queue** (p.2157)

Returns:

new **Queue** (p.2157) pointer that is owned by the caller.

Exceptions:

CMSException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2027), and **activemq::core::ActiveMQSession** (p. 361).

Referenced by **activemq::cmsutil::PooledSession::createQueue()**.

6.480.4.15 `virtual StreamMessage* cms::Session::createStreamMessage () throw (CMSEException) [pure virtual]`

Creates a new **StreamMessage** (p. 2476).

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2027), and **activemq::core::ActiveMQSession** (p. 361).

Referenced by **activemq::cmsutil::PooledSession::createStreamMessage()**.

6.480.4.16 `virtual TemporaryQueue* cms::Session::createTemporaryQueue () throw (CMSEException) [pure virtual]`

Creates a **TemporaryQueue** (p. 2538) object.

Returns:

new **TemporaryQueue** (p. 2538) pointer that is owned by the caller.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2028), and **activemq::core::ActiveMQSession** (p. 361).

Referenced by **activemq::cmsutil::PooledSession::createTemporaryQueue()**.

6.480.4.17 `virtual TemporaryTopic* cms::Session::createTemporaryTopic () throw (CMSEException) [pure virtual]`

Creates a **TemporaryTopic** (p. 2540) object.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2028), and **activemq::core::ActiveMQSession** (p. 361).

Referenced by **activemq::cmsutil::PooledSession::createTemporaryTopic()**.

6.480.4.18 `virtual TextMessage* cms::Session::createTextMessage (const std::string & text) throw (CMSEException) [pure virtual]`

Creates a new **TextMessage** (p. 2542) and set the text to the value given.

Parameters:

text the initial text for the message

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2028), and **activemq::core::ActiveMQSession** (p. 362).

6.480.4.19 `virtual TextMessage* cms::Session::createTextMessage () throw (CMSEException) [pure virtual]`

Creates a new **TextMessage** (p. 2542).

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2028), and **activemq::core::ActiveMQSession** (p. 362).

Referenced by **activemq::cmsutil::PooledSession::createTextMessage()**.

6.480.4.20 `virtual Topic* cms::Session::createTopic (const std::string & topicName) throw (CMSEException) [pure virtual]`

Creates a topic identity given a **Queue** (p. 2157) name.

Parameters:

topicName the name of the new **Topic** (p. 2571)

Returns:

new **Topic** (p. 2571) pointer that is owned by the caller.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2029), and **activemq::core::ActiveMQSession** (p. 362).

Referenced by **activemq::cmsutil::PooledSession::createTopic()**.

6.480.4.21 `virtual AcknowledgeMode cms::Session::getAcknowledgeMode () const throw (CMSEException) [pure virtual]`

Returns the acknowledgment mode of the session.

Returns:

the Sessions Acknowledge Mode

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2029), and **activemq::core::ActiveMQSession** (p. 364).

Referenced by **activemq::cmsutil::PooledSession::getAcknowledgeMode()**.

6.480.4.22 **virtual bool cms::Session::isTransacted () const throw (CMSEException)** [pure virtual]

Gets if the Sessions is a Transacted **Session** (p. 2270).

Returns:

transacted true - false.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2030), and **activemq::core::ActiveMQSession** (p. 365).

Referenced by **activemq::cmsutil::PooledSession::isTransacted()**.

6.480.4.23 **virtual void cms::Session::recover () throw (CMSEException)** [pure virtual]

Stops message delivery in this session, and restarts message delivery with the oldest unacknowledged message. All consumers deliver messages in a serial order. Acknowledging a received message automatically acknowledges all messages that have been delivered to the client.

Restarting a session causes it to take the following actions:

- Stop message delivery
- Mark all messages that might have been delivered but not acknowledged as "redelivered"
- Restart the delivery sequence including all unacknowledged messages that had been previously delivered. Redelivered messages do not have to be delivered in exactly their original delivery order.

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to stop and restart message delivery due to some internal error.

IllegalStateException (p. 1399) - if the method is called by a transacted session.

Implemented in **activemq::cmsutil::PooledSession** (p. 2030), and **activemq::core::ActiveMQSession** (p. 366).

Referenced by **activemq::cmsutil::PooledSession::recover()**.

6.480.4.24 **virtual void cms::Session::rollback () throw (CMSEException)** [pure virtual]

Rolls back all messages done in this transaction and releases any locks currently held.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

IllegalStateException (p. 1399) - if the method is not called by a transacted session.

Implemented in **activemq::cmsutil::PooledSession** (p. 2031), and **activemq::core::ActiveMQSession** (p. 366).

Referenced by **activemq::cmsutil::PooledSession::rollback()**.

6.480.4.25 virtual void cms::Session::unsubscribe (const std::string & name) throw (CMSEException) [pure virtual]

Unsubscribes a durable subscription that has been created by a client. This method deletes the state being maintained on behalf of the subscriber by its provider. It is erroneous for a client to delete a durable subscription while there is an active **MessageConsumer** (p. 1795) or **Subscriber** for the subscription, or while a consumed message is part of a pending transaction or has not been acknowledged in the session.

Parameters:

name The name used to identify this subscription

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in **activemq::cmsutil::PooledSession** (p. 2031), and **activemq::core::ActiveMQSession** (p. 367).

Referenced by **activemq::cmsutil::PooledSession::unsubscribe()**.

The documentation for this class was generated from the following file:

- **src/main/cms/Session.h**

6.481 activemq::cmsutil::SessionCallback Class Reference

Callback for executing any number of operations on a provided CMS Session.

#include <src/main/activemq/cmsutil/SessionCallback.h> Inheritance diagram for activemq::cmsutil::SessionCallback:

Public Member Functions

- virtual `~SessionCallback ()`
- virtual void `doInCms (cms::Session *session)=0` throw (cms::CMSEException)
Execute any number of operations against the supplied CMS session.

6.481.1 Detailed Description

Callback for executing any number of operations on a provided CMS Session.

6.481.2 Constructor & Destructor Documentation

- 6.481.2.1 virtual `activemq::cmsutil::SessionCallback::~~SessionCallback ()` [inline, virtual]

6.481.3 Member Function Documentation

- 6.481.3.1 virtual void `activemq::cmsutil::SessionCallback::doInCms (cms::Session * session)` throw (cms::CMSEException) [pure virtual]

Execute any number of operations against the supplied CMS session.

Parameters:

session the CMS Session

Exceptions:

cms::CMSEException (p. 850) if thrown by CMS API methods

Implemented in `activemq::cmsutil::CmsTemplate::ProducerExecutor` (p. 2103), and `activemq::cmsutil::CmsTemplate::ReceiveExecutor` (p. 2172).

The documentation for this class was generated from the following file:

- `src/main/activemq/cmsutil/SessionCallback.h`

6.482 activemq::commands::SessionId Class Reference

#include <src/main/activemq/commands/SessionId.h> Inheritance diagram for activemq::commands::SessionId:

Public Types

- typedef decaf::lang::PointerComparator< SessionId > COMPARATOR

Public Member Functions

- SessionId ()
- SessionId (const SessionId &other)
- SessionId (const ConnectionId *connectionId, long long sessionId)
- SessionId (const ProducerId *producerId)
- SessionId (const ConsumerId *consumerId)
- virtual ~SessionId ()
- virtual unsigned char getDataStructureType () const
Get the unique identifier that this object and its own Marshaler share.
- virtual SessionId * cloneDataStructure () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void copyDataStructure (const DataStructure *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string toString () const
Returns a string containing the information for this DataStructure (p. 1174) such as its type and value of its elements.
- virtual bool equals (const DataStructure *value) const
Compares the DataStructure (p. 1174) passed in to this one, and returns if they are equivalent.
- const Pointer< ConnectionId > & getParentId () const
- virtual const std::string & getConnectionId () const
- virtual std::string & getConnectionId ()
- virtual void setConnectionId (const std::string &connectionId)
- virtual long long getValue () const
- virtual void setValue (long long value)
- virtual int compareTo (const SessionId &value) const
- virtual bool equals (const SessionId &value) const
- virtual bool operator== (const SessionId &value) const
- virtual bool operator< (const SessionId &value) const
- SessionId & operator= (const SessionId &other)

Static Public Attributes

- static const unsigned char **ID_SESSIONID** = 121

Protected Attributes

- std::string **connectionId**
- long long **value**

6.482.1 Member Typedef Documentation

- 6.482.1.1** typedef decaf::lang::PointerComparator<SessionId>
activemq::commands::SessionId::COMPARATOR

6.482.2 Constructor & Destructor Documentation

- 6.482.2.1** activemq::commands::SessionId::SessionId ()
- 6.482.2.2** activemq::commands::SessionId::SessionId (const SessionId & *other*)
- 6.482.2.3** activemq::commands::SessionId::SessionId (const ConnectionId * *connectionId*, long long *sessionId*)
- 6.482.2.4** activemq::commands::SessionId::SessionId (const ProducerId * *producerId*)
- 6.482.2.5** activemq::commands::SessionId::SessionId (const ConsumerId * *consumerId*)
- 6.482.2.6** virtual activemq::commands::SessionId::~~SessionId () [virtual]

6.482.3 Member Function Documentation

- 6.482.3.1** virtual SessionId* activemq::commands::SessionId::cloneDataStructure () const [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements **activemq::commands::DataStructure** (p. 1174).

- 6.482.3.2** virtual int activemq::commands::SessionId::compareTo (const SessionId & *value*) const [virtual]
- 6.482.3.3** virtual void activemq::commands::SessionId::copyDataStructure (const DataStructure * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

6.482.3.4 `virtual bool activemq::commands::SessionId::equals (const SessionId & value) const [virtual]`

6.482.3.5 `virtual bool activemq::commands::SessionId::equals (const DataStructure * value) const [virtual]`

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.482.3.6 `virtual std::string& activemq::commands::SessionId::getConnectionId () [virtual]`

6.482.3.7 `virtual const std::string& activemq::commands::SessionId::getConnectionId () const [virtual]`

Referenced by `activemq::commands::ConsumerId::ConsumerId()`, and `activemq::commands::ProducerId::ProducerId()`.

6.482.3.8 `virtual unsigned char activemq::commands::SessionId::getDataSetType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

6.482.3.9 `const Pointer<ConnectionId>& activemq::commands::SessionId::getParentId () const`

6.482.3.10 `virtual long long activemq::commands::SessionId::getValue () const [virtual]`

Referenced by `activemq::commands::ConsumerId::ConsumerId()`, and `activemq::commands::ProducerId::ProducerId()`.

- 6.482.3.11 `virtual bool activemq::commands::SessionId::operator< (const SessionId & value) const` [virtual]
- 6.482.3.12 `SessionId& activemq::commands::SessionId::operator= (const SessionId & other)`
- 6.482.3.13 `virtual bool activemq::commands::SessionId::operator== (const SessionId & value) const` [virtual]
- 6.482.3.14 `virtual void activemq::commands::SessionId::setConnectionId (const std::string & connectionId)` [virtual]
- 6.482.3.15 `virtual void activemq::commands::SessionId::setValue (long long value)` [virtual]
- 6.482.3.16 `virtual std::string activemq::commands::SessionId::toString () const` [virtual]

Returns a string containing the information for this **DataSet** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseDataSet` (p.560).

6.482.4 Field Documentation

- 6.482.4.1 `std::string activemq::commands::SessionId::connectionId` [protected]
- 6.482.4.2 `const unsigned char activemq::commands::SessionId::ID_SESSIONID = 121` [static]

Referenced by `activemq::state::CommandVisitorAdapter::processRemoveInfo()`.

- 6.482.4.3 `long long activemq::commands::SessionId::value` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/SessionId.h`

6.483 activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2288).

#include <src/main/activemq/wireformat/openwire/marshal/v1/SessionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller:

Public Member Functions

- **SessionIdMarshaller** ()
- virtual **~SessionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.483.1 Detailed Description

Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2288). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.483.2 Constructor & Destructor Documentation

6.483.2.1 `activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::SessionIdMarshaller()` [inline]

6.483.2.2 `virtual activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::~~SessionIdMarshaller()` [inline, virtual]

6.483.3 Member Function Documentation

6.483.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.483.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.483.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.483.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.483.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.483.3.6 virtual void activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.483.3.7 virtual void activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**SessionIdMarshaller.h**

6.484 activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2292).

#include <src/main/activemq/wireformat/openwire/marshal/v3/SessionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller:

Public Member Functions

- **SessionIdMarshaller** ()
- virtual **~SessionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.484.1 Detailed Description

Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2292). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.484.2 Constructor & Destructor Documentation

6.484.2.1 `activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::SessionIdMarshaller()` [inline]

6.484.2.2 `virtual activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::~~SessionIdMarshaller()` [inline, virtual]

6.484.3 Member Function Documentation

6.484.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.484.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.484.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.484.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.484.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.484.3.6 virtual void activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.484.3.7 virtual void activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/SessionIdMarshaller.h

6.485 activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2296).

#include <src/main/activemq/wireformat/openwire/marshal/v2/SessionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller:

Public Member Functions

- **SessionIdMarshaller** ()
- virtual **~SessionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.485.1 Detailed Description

Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2296). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.485.2 Constructor & Destructor Documentation

6.485.2.1 `activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::SessionIdMarshaller()` [inline]

6.485.2.2 `virtual activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::~~SessionIdMarshaller()` [inline, virtual]

6.485.3 Member Function Documentation

6.485.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.485.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.485.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.485.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - **BinaryReader** that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.485.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a **BooleanStream**.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - **BooleanStream** stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.485.3.6 virtual void activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.485.3.7 virtual void activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/SessionIdMarshaller.h

6.486 activemq::commands::SessionInfo Class Reference

#include <src/main/activemq/commands/SessionInfo.h> Inheritance diagram for activemq::commands::SessionInfo:

Public Member Functions

- **SessionInfo** ()
- virtual **~SessionInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **SessionInfo * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- unsigned int **getAckMode** () const
- void **setAckMode** (unsigned int mode)
- virtual const **Pointer< SessionId > & getSessionId** () const
- virtual **Pointer< SessionId > & getSessionId** ()
- virtual void **setSessionId** (const **Pointer< SessionId > &sessionId**)
- virtual **Pointer< Command > visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_SESSIONINFO** = 4

Protected Member Functions

- **SessionInfo** (const **SessionInfo** &)
- **SessionInfo & operator=** (const **SessionInfo** &)

Protected Attributes

- `Pointer< SessionId > sessionId`

6.486.1 Constructor & Destructor Documentation

6.486.1.1 `activemq::commands::SessionInfo::SessionInfo (const SessionInfo &)`
[inline, protected]

6.486.1.2 `activemq::commands::SessionInfo::SessionInfo ()`

6.486.1.3 `virtual activemq::commands::SessionInfo::~~SessionInfo ()` [virtual]

6.486.2 Member Function Documentation

6.486.2.1 `virtual SessionInfo* activemq::commands::SessionInfo::cloneDataStructure ()`
`const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.486.2.2 `virtual void activemq::commands::SessionInfo::copyDataStructure (const DataStructure * src)` [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.486.2.3 `virtual bool activemq::commands::SessionInfo::equals (const DataStructure * value) const` [virtual]

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.486.2.4 `unsigned int activemq::commands::SessionInfo::getAckMode () const`
[inline]

6.486.2.5 `virtual unsigned char activemq::commands::SessionInfo::getDataStructureType ()`
`const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

6.486.2.6 `virtual Pointer<SessionId>& activemq::commands::SessionInfo::getSessionId ()`
[virtual]

6.486.2.7 `virtual const Pointer<SessionId>& activemq::commands::SessionInfo::getSessionId () const`
[virtual]

6.486.2.8 `SessionInfo& activemq::commands::SessionInfo::operator= (const SessionInfo &)` [inline, protected]

6.486.2.9 `void activemq::commands::SessionInfo::setAckMode (unsigned int mode)`
[inline]

6.486.2.10 `virtual void activemq::commands::SessionInfo::setSessionId (const Pointer< SessionId > & sessionId)` [virtual]

6.486.2.11 `virtual std::string activemq::commands::SessionInfo::toString () const`
[virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.486.2.12 `virtual Pointer<Command> activemq::commands::SessionInfo::visit (activemq::state::CommandVisitor * visitor) throw (exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.486.3 Field Documentation

6.486.3.1 `const unsigned char activemq::commands::SessionInfo::ID_SESSIONINFO = 4` [static]

6.486.3.2 `Pointer<SessionId> activemq::commands::SessionInfo::sessionId` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/SessionInfo.h`

6.487 activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2304).

#include <src/main/activemq/wireformat/openwire/marshal/v1/SessionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller:

Public Member Functions

- **SessionInfoMarshaller** ()
- virtual **~SessionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.487.1 Detailed Description

Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2304). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.487.2 Constructor & Destructor Documentation

6.487.2.1 `activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::SessionInfoMarshaller()` [inline]

6.487.2.2 `virtual activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::~~SessionInfoMarshaller()` [inline, virtual]

6.487.3 Member Function Documentation

6.487.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.487.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.487.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.487.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.487.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.487.3.6 virtual void activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.487.3.7 virtual void activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**SessionInfoMarshaller.h**

6.488 activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2308).

#include <src/main/activemq/wireformat/openwire/marshal/v2/SessionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller:

Public Member Functions

- **SessionInfoMarshaller** ()
- virtual **~SessionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.488.1 Detailed Description

Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2308). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.488.2 Constructor & Destructor Documentation

6.488.2.1 `activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::SessionInfoMarshaller()` [inline]

6.488.2.2 `virtual activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::~~SessionInfoMarshaller()` [inline, virtual]

6.488.3 Member Function Documentation

6.488.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.488.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.488.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.488.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.488.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.488.3.6 virtual void activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.488.3.7 virtual void activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**SessionInfoMarshaller.h**

6.489 activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2312).

#include <src/main/activemq/wireformat/openwire/marshal/v3/SessionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller:

Public Member Functions

- **SessionInfoMarshaller** ()
- virtual **~SessionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.489.1 Detailed Description

Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2312). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.489.2 Constructor & Destructor Documentation

6.489.2.1 `activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::SessionInfoMarshaller()` [inline]

6.489.2.2 `virtual activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::~~SessionInfoMarshaller()` [inline, virtual]

6.489.3 Member Function Documentation

6.489.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.489.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.489.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.489.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.489.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.489.3.6 virtual void activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.489.3.7 virtual void activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/SessionInfoMarshaller.h

6.490 activemq::cmsutil::SessionPool Class Reference

A pool of CMS sessions from the same connection and with the same acknowledge mode.

```
#include <src/main/activemq/cmsutil/SessionPool.h>
```

Public Member Functions

- **SessionPool** (**cms::Connection** *connection, **cms::Session::AcknowledgeMode** acknowledgeMode, **ResourceLifecycleManager** *resourceLifecycleManager)
Constructs a session pool.
- virtual **~SessionPool** ()
Destroys the pooled session objects, but not the underlying session resources.
- virtual **PooledSession** * **takeSession** () throw (cms::CMSException)
Takes a session from the pool, creating one if necessary.
- virtual void **returnSession** (**PooledSession** *session)
Returns a session to the pool.
- **ResourceLifecycleManager** * **getResourceLifecycleManager** ()

6.490.1 Detailed Description

A pool of CMS sessions from the same connection and with the same acknowledge mode. Internal session resources are managed through a provided **ResourceLifecycleManager** (p. 2228), not by this pool. This class is thread-safe.

6.490.2 Constructor & Destructor Documentation

6.490.2.1 **activemq::cmsutil::SessionPool::SessionPool** (**cms::Connection** * connection, **cms::Session::AcknowledgeMode** acknowledgeMode, **ResourceLifecycleManager** * resourceLifecycleManager)

Constructs a session pool.

Parameters:

connection the connection to be used for creating all sessions.

acknowledgeMode the acknowledge mode to be used for all sessions

resourceLifecycleManager the object responsible for managing the lifecycle of any allocated **cms::Session** (p. 2270) resources.

6.490.2.2 virtual **activemq::cmsutil::SessionPool::~SessionPool** () [virtual]

Destroys the pooled session objects, but not the underlying session resources. That is the job of the **ResourceLifecycleManager** (p. 2228).

6.490.3 Member Function Documentation

6.490.3.1 ResourceLifecycleManager* activemq::cmsutil::SessionPool::getResourceLifecycleManager()
() [inline]

6.490.3.2 virtual void activemq::cmsutil::SessionPool::returnSession (PooledSession* *session*) [virtual]

Returns a session to the pool.

Parameters:

session the session to be returned.

6.490.3.3 virtual PooledSession* activemq::cmsutil::SessionPool::takeSession ()
throw (cms::CMSException) [virtual]

Takes a session from the pool, creating one if necessary.

Returns:

the pooled session object

Exceptions:

cms::CMSException (p. 850) if an error occurred

The documentation for this class was generated from the following file:

- src/main/activemq/cmsutil/SessionPool.h

6.491 activemq::state::SessionState Class Reference

```
#include <src/main/activemq/state/SessionState.h>
```

Public Member Functions

- **SessionState** (const **Pointer**< **SessionInfo** > &info)
- virtual ~**SessionState** ()
- std::string **toString** () const
- const **Pointer**< **SessionInfo** > **getInfo** () const
- void **addProducer** (const **Pointer**< **ProducerInfo** > &info)
- **Pointer**< **ProducerState** > **removeProducer** (const **Pointer**< **ProducerId** > &id)
- void **addConsumer** (const **Pointer**< **ConsumerInfo** > &info)
- **Pointer**< **ConsumerState** > **removeConsumer** (const **Pointer**< **ConsumerId** > &id)
- std::vector< **Pointer**< **ProducerState** > > **getProducerStates** () const
- **Pointer**< **ProducerState** > **getProducerState** (const **Pointer**< **ProducerId** > &id)
- std::vector< **Pointer**< **ConsumerState** > > **getConsumerStates** () const
- **Pointer**< **ConsumerState** > **getConsumerState** (const **Pointer**< **ConsumerId** > &id)
- void **checkShutdown** () const
- void **shutdown** ()

6.491.1 Constructor & Destructor Documentation

6.491.1.1 `activemq::state::SessionState::SessionState (const Pointer< SessionInfo > & info)`

6.491.1.2 `virtual activemq::state::SessionState::~~SessionState ()` [virtual]

6.491.2 Member Function Documentation

6.491.2.1 `void activemq::state::SessionState::addConsumer (const Pointer< ConsumerInfo > & info)` [inline]

6.491.2.2 `void activemq::state::SessionState::addProducer (const Pointer< ProducerInfo > & info)` [inline]

6.491.2.3 `void activemq::state::SessionState::checkShutdown ()` const

6.491.2.4 `Pointer<ConsumerState> activemq::state::SessionState::getConsumerState (const Pointer< ConsumerId > & id)` [inline]

6.491.2.5 `std::vector< Pointer<ConsumerState> > activemq::state::SessionState::getConsumerStates ()` const [inline]

6.491.2.6 `const Pointer<SessionInfo> activemq::state::SessionState::getInfo ()` const [inline]

6.491.2.7 `Pointer<ProducerState> activemq::state::SessionState::getProducerState (const Pointer< ProducerId > & id)` [inline]

6.491.2.8 `std::vector< Pointer<ProducerState> > activemq::state::SessionState::getProducerStates ()` const [inline]

6.491.2.9 `Pointer<ConsumerState> activemq::state::SessionState::removeConsumer (const Pointer< ConsumerId > & id)` [inline]

6.491.2.10 `Pointer<ProducerState> activemq::state::SessionState::removeProducer (const Pointer< ProducerId > & id)` [inline]

6.491.2.11 `void activemq::state::SessionState::shutdown ()` [inline]

6.491.2.12 `std::string activemq::state::SessionState::toString ()` const

The documentation for this class was generated from the following file:

- `src/main/activemq/state/SessionState.h`

6.492 decaf::util::Set< E > Class Template Reference

A collection that contains no duplicate elements.

#include <src/main/decaf/util/Set.h> Inheritance diagram for decaf::util::Set< E >:

Public Member Functions

- virtual `~Set ()`

6.492.1 Detailed Description

`template<typename E> class decaf::util::Set< E >`

A collection that contains no duplicate elements. More formally, sets contain no pair of elements `e1` and `e2` such that `e1 == e2`, and at most one null element. As implied by its name, this interface models the mathematical set abstraction.

The additional stipulation on constructors is, not surprisingly, that all constructors must create a set that contains no duplicate elements (as defined above).

Note: Great care must be exercised if mutable objects are used as set elements. The behavior of a set is not specified if the value of an object is changed in a manner that affects equals comparisons while the object is an element in the set.

Since:

1.0

6.492.2 Constructor & Destructor Documentation

6.492.2.1 `template<typename E> virtual decaf::util::Set< E >::~~Set () [inline, virtual]`

The documentation for this class was generated from the following file:

- `src/main/decaf/util/Set.h`

6.493 decaf::lang::Short Class Reference

#include <src/main/decaf/lang/Short.h> Inheritance diagram for decaf::lang::Short:

Public Member Functions

- **Short** (short value)
- **Short** (const std::string &value) throw (exceptions::NumberFormatException)
- virtual ~**Short** ()
- virtual int **compareTo** (const **Short** &s) const
*Compares this **Short** (p. 2321) instance with another.*
- bool **equals** (const **Short** &s) const
- virtual bool **operator==** (const **Short** &s) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **Short** &s) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual int **compareTo** (const short &s) const
*Compares this **Short** (p. 2321) instance with another.*
- bool **equals** (const short &s) const
- virtual bool **operator==** (const short &s) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const short &s) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- std::string **toString** () const
- virtual double **doubleValue** () const
Answers the double value which the receiver represents.
- virtual float **floatValue** () const
Answers the float value which the receiver represents.
- virtual unsigned char **byteValue** () const
Answers the byte value which the receiver represents.
- virtual short **shortValue** () const
Answers the short value which the receiver represents.
- virtual int **intValue** () const
Answers the int value which the receiver represents.
- virtual long long **longValue** () const
Answers the long value which the receiver represents.

Static Public Member Functions

- static std::string **toString** (short value)
- static **Short decode** (const std::string &value) throw (exceptions::NumberFormatException)
*Decodes a String into a **Short** (p. 2321).*
- static short **reverseBytes** (short value)
Returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified short value.
- static short **parseShort** (const std::string &s, int radix) throw (exceptions::NumberFormatException)
Parses the string argument as a signed short in the radix specified by the second argument.
- static short **parseShort** (const std::string &s) throw (exceptions::NumberFormatException)
Parses the string argument as a signed decimal short.
- static **Short valueOf** (short value)
*Returns a **Short** (p. 2321) instance representing the specified short value.*
- static **Short valueOf** (const std::string &value) throw (exceptions::NumberFormatException)
*Returns a **Short** (p. 2321) object holding the value given by the specified std::string.*
- static **Short valueOf** (const std::string &value, int radix) throw (exceptions::NumberFormatException)
*Returns a **Short** (p. 2321) object holding the value extracted from the specified std::string when parsed with the radix given by the second argument.*

Static Public Attributes

- static const int **SIZE** = 16
Size of this objects primitive type in bits.
- static const short **MAX_VALUE** = (short)0x7FFF
Max Value for this Object's primitive type.
- static const short **MIN_VALUE** = (short)0x8000
Max Value for this Object's primitive type.

6.493.1 Constructor & Destructor Documentation

6.493.1.1 decaf::lang::Short::Short (short value)

Parameters:

value - short to wrap

6.493.1.2 decaf::lang::Short::Short (const std::string & *value*) throw (exceptions::NumberFormatException)

Parameters:

value - string value to convert to short and wrap

Exceptions:

NumberFormatException

6.493.1.3 virtual decaf::lang::Short::~~Short () [inline, virtual]

6.493.2 Member Function Documentation

6.493.2.1 virtual unsigned char decaf::lang::Short::byteValue () const [inline, virtual]

Answers the byte value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from **decaf::lang::Number** (p.1954).

6.493.2.2 virtual int decaf::lang::Short::compareTo (const short & *s*) const [virtual]

Compares this **Short** (p. 2321) instance with another.

Parameters:

s - the **Short** (p. 2321) instance to be compared

Returns:

zero if this object represents the same short value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

Implements **decaf::lang::Comparable< short >** (p. 899).

6.493.2.3 virtual int decaf::lang::Short::compareTo (const Short & *s*) const [virtual]

Compares this **Short** (p. 2321) instance with another.

Parameters:

s - the **Short** (p. 2321) instance to be compared

Returns:

zero if this object represents the same short value as the argument; a positive value if this object represents a value greater than the passed in value, and -1 if this object represents a value less than the passed in value.

6.493.2.4 static Short decaf::lang::Short::decode (const std::string & *value*) throw (exceptions::NumberFormatException) [static]

Decodes a String into a **Short** (p. 2321). Accepts decimal, hexadecimal, and octal numbers given by the following grammar:

The sequence of characters following an (optional) negative sign and/or radix specifier ("0x", "0X", "#", or leading zero) is parsed as by the **Short.parseShort** (p.2327) method with the indicated radix (10, 16, or 8). This sequence of characters must represent a positive value or a **NumberFormatException** will be thrown. The result is negated if first character of the specified String is the minus sign. No whitespace characters are permitted in the string.

Parameters:

value - The string to decode

Returns:

a **Short** (p.2321) object containing the decoded value

Exceptions:

NumberFormatException if the string is not formatted correctly.

6.493.2.5 virtual double decaf::lang::Short::doubleValue () const [inline, virtual]

Answers the double value which the receiver represents.

Returns:

double the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.493.2.6 bool decaf::lang::Short::equals (const short & *s*) const [inline, virtual]

Returns:

true if the two **Short** (p. 2321) Objects have the same value.

Implements **decaf::lang::Comparable< short >** (p.900).

6.493.2.7 bool decaf::lang::Short::equals (const Short & *s*) const [inline]

Returns:

true if the two **Short** (p. 2321) Objects have the same value.

6.493.2.8 virtual float decaf::lang::Short::floatValue () const [inline, virtual]

Answers the float value which the receiver represents.

Returns:

float the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.493.2.9 virtual int decaf::lang::Short::intValue () const [inline, virtual]

Answers the int value which the receiver represents.

Returns:

int the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.493.2.10 virtual long long decaf::lang::Short::longValue () const [inline, virtual]

Answers the long value which the receiver represents.

Returns:

long the value of the receiver.

Implements **decaf::lang::Number** (p.1955).

6.493.2.11 virtual bool decaf::lang::Short::operator< (const short & s) const [inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

s - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements **decaf::lang::Comparable< short >** (p.900).

6.493.2.12 virtual bool decaf::lang::Short::operator< (const Short & s) const [inline, virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

s - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.493.2.13 `virtual bool decaf::lang::Short::operator==(const short & s) const`
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

s - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

Implements `decaf::lang::Comparable< short >` (p. 901).

6.493.2.14 `virtual bool decaf::lang::Short::operator==(const Short & s) const`
[inline, virtual]

Compares equality between this object and the one passed.

Parameters:

s - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.493.2.15 `static short decaf::lang::Short::parseShort(const std::string & s) throw`
`(exceptions::NumberFormatException) [static]`

Parses the string argument as a signed decimal short. The characters in the string must all be decimal digits, except that the first character may be an ASCII minus sign '-' to indicate a negative value. The resulting short value is returned, exactly as if the argument and the radix 10 were given as arguments to the `parseShort(const std::string, int)` method.

Parameters:

s - String to convert to a short

Returns:

the converted short value

Exceptions:

NumberFormatException if the string is not a short.

6.493.2.16 static short decaf::lang::Short::parseShort (const std::string & *s*, int *radix*) throw (exceptions::NumberFormatException) [static]

Parses the string argument as a signed short in the radix specified by the second argument. The characters in the string must all be digits, of the specified radix (as determined by whether **Character.digit(char, int)** (p. 804) returns a nonnegative value) except that the first character may be an ASCII minus sign '-' to indicate a negative value. The resulting byte value is returned.

An exception of type `NumberFormatException` is thrown if any of the following situations occurs:

- * The first argument is null or is a string of length zero.
- * The radix is either smaller than **Character.MIN_RADIX** (p. 808) or larger than **Character.MAX_RADIX** (p. 807).
- * Any character of the string is not a digit of the specified radix, except that the first character may be a minus sign '-' provided that the string is longer than length 1.
- * The value represented by the string is not a value of type short.

Parameters:

s - the String containing the short representation to be parsed
radix - the radix to be used while parsing *s*

Returns:

the short represented by the string argument in the specified radix.

Exceptions:

NumberFormatException - If String does not contain a parsable short.

6.493.2.17 static short decaf::lang::Short::reverseBytes (short *value*) [static]

Returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified short value.

Parameters:

value - the short whose bytes we are to reverse

Returns:

the reversed short.

6.493.2.18 virtual short decaf::lang::Short::shortValue () const [inline, virtual]

Answers the short value which the receiver represents.

Returns:

int the value of the receiver.

Reimplemented from **decaf::lang::Number** (p. 1956).

6.493.2.19 static std::string decaf::lang::Short::toString (short *value*) [static]**Returns:**

a string representing the primitive value as Base 10

6.493.2.20 `std::string decaf::lang::Short::toString () const`**Returns:**

this **Short** (p. 2321) Object as a String Representation

6.493.2.21 `static Short decaf::lang::Short::valueOf (const std::string & value, int radix) throw (exceptions::NumberFormatException) [static]`

Returns a **Short** (p. 2321) object holding the value extracted from the specified `std::string` when parsed with the radix given by the second argument. The first argument is interpreted as representing a signed short in the radix specified by the second argument, exactly as if the argument were given to the `parseShort(std::string, int)` method. The result is a **Short** (p. 2321) object that represents the short value specified by the string.

Parameters:

value - `std::string` to parse as base (radix)

radix - base of the string to parse.

Returns:

new **Short** (p. 2321) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a valid short.

6.493.2.22 `static Short decaf::lang::Short::valueOf (const std::string & value) throw (exceptions::NumberFormatException) [static]`

Returns a **Short** (p. 2321) object holding the value given by the specified `std::string`. The argument is interpreted as representing a signed decimal short, exactly as if the argument were given to the `parseShort(std::string)` method. The result is a **Short** (p. 2321) object that represents the short value specified by the string.

Parameters:

value - `std::string` to parse as base 10

Returns:

new **Short** (p. 2321) Object wrapping the primitive

Exceptions:

NumberFormatException if the string is not a decimal short.

6.493.2.23 `static Short decaf::lang::Short::valueOf (short value) [static]`

Returns a **Short** (p. 2321) instance representing the specified short value.

Parameters:

value - the short to wrap

Returns:

the new **Short** (p. 2321) object wrapping value.

6.493.3 Field Documentation

6.493.3.1 `const short decaf::lang::Short::MAX_VALUE = (short)0x7FFF`
[static]

Max Value for this Object's primitive type.

6.493.3.2 `const short decaf::lang::Short::MIN_VALUE = (short)0x8000` [static]

Max Value for this Object's primitive type.

6.493.3.3 `const int decaf::lang::Short::SIZE = 16` [static]

Size of this objects primitive type in bits.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Short.h`

6.494 decaf::internal::nio::ShortArrayBuffer Class Reference

#include <src/main/decaf/internal/nio/ShortArrayBuffer.h> Inheritance diagram for decaf::internal::nio::ShortArrayBuffer:

Public Member Functions

- **ShortArrayBuffer** (std::size_t capacity, bool readOnly=false)
*Creates a **ShortArrayBuffer** (p. 2330) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*
- **ShortArrayBuffer** (short *array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::NullPointerException)
*Creates a **ShortArrayBuffer** (p. 2330) object that wraps the given array.*
- **ShortArrayBuffer** (ByteArrayPerspective &array, std::size_t offset, std::size_t capacity, bool readOnly=false) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
*Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset.*
- **ShortArrayBuffer** (const ShortArrayBuffer &other)
*Create a **ShortArrayBuffer** (p. 2330) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.*
- virtual ~**ShortArrayBuffer** ()
- virtual short * **array** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the short array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** () throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::nio::ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual ShortBuffer * **asReadOnlyBuffer** () const
Creates a new, read-only short buffer that shares this buffer's content.
- virtual ShortBuffer & **compact** () throw (decaf::nio::ReadOnlyBufferException)
Compacts this buffer.
- virtual ShortBuffer * **duplicate** ()
Creates a new short buffer that shares this buffer's content.
- virtual short **get** () throw (decaf::nio::BufferUnderflowException)
Relative get method.
- virtual short **get** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Absolute get method.

- virtual bool **hasArray** () const
Tells whether or not this buffer is backed by an accessible short array.
- virtual bool **isReadOnly** () const
Tells whether or not this buffer is read-only.
- virtual ShortBuffer & **put** (short value) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the current position, and then increments the position.
- virtual ShortBuffer & **put** (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException)
Writes the given doubles into this buffer at the given index.
- virtual ShortBuffer * **slice** () const
Creates a new ShortBuffer whose content is a shared subsequence of this buffer's content.

Protected Member Functions

- virtual void **setReadOnly** (bool value)
*Sets this **ByteBuffer** (p. 694) as Read-Only.*

6.494.1 Constructor & Destructor Documentation

6.494.1.1 decaf::internal::nio::ShortArrayBuffer::ShortArrayBuffer (std::size_t capacity, bool readOnly = false)

Creates a **ShortArrayBuffer** (p. 2330) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size of the array, this is the limit we read and write to.
readOnly - should this buffer be read-only, default as false

6.494.1.2 decaf::internal::nio::ShortArrayBuffer::ShortArrayBuffer (short * array, std::size_t offset, std::size_t capacity, bool readOnly = false) throw (decaf::lang::exceptions::NullPointerException)

Creates a **ShortArrayBuffer** (p. 2330) object that wraps the given array. If the own flag is set then it will delete this array when this object is deleted.

Parameters:

array - array to wrap

offset - the position that is this buffers start pos.

capacity - size of the array, this is the limit we read and write to.

readOnly - should this buffer be read-only, default as false

Exceptions:

NullPointerException if buffer is NULL

6.494.1.3 `decaf::internal::nio::ShortArrayBuffer::ShortArrayBuffer` (`ByteArrayPerspective & array`, `std::size_t offset`, `std::size_t capacity`, `bool readOnly = false`) `throw (` `decaf::lang::exceptions::IndexOutOfBoundsException` `)`

Creates a byte buffer that wraps the passed **ByteArrayPerspective** (p. 729) and start at the given offset. The capacity and limit of the new **ShortArrayBuffer** (p. 2330) will be that of the remaining capacity of the passed buffer.

Parameters:

array - the **ByteArrayPerspective** (p. 729) to wrap

offset - the position that is this buffers start pos.

capacity - the length of the array we are wrapping or limit.

readOnly - is this a readOnly buffer.

Exceptions:

IndexOutOfBoundsException if offset is greater than array capacity.

6.494.1.4 `decaf::internal::nio::ShortArrayBuffer::ShortArrayBuffer` (`const` `ShortArrayBuffer & other`)

Create a **ShortArrayBuffer** (p. 2330) that mirrors this one, meaning it shares a reference to this buffers **ByteArrayPerspective** (p. 729) and when changes are made to that data it is reflected in both.

Parameters:

other - the **ShortArrayBuffer** (p. 2330) this one is to mirror.

6.494.1.5 `virtual decaf::internal::nio::ShortArrayBuffer::~~ShortArrayBuffer` (`)` `[virtual]`

6.494.2 Member Function Documentation

6.494.2.1 `virtual short* decaf::internal::nio::ShortArrayBuffer::array` (`)` `throw (decaf::lang::exceptions::UnsupportedOperationException,` `decaf::nio::ReadOnlyBufferException)` `[virtual]`

Returns the short array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this Buffer

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::ShortBuffer** (p. 2341).

6.494.2.2 `virtual std::size_t decaf::internal::nio::ShortArrayBuffer::arrayOffset
() throw (decaf::lang::exceptions::UnsupportedOperationException,
decaf::nio::ReadOnlyBufferException) [virtual]`

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException if this Buffer is read only.

UnsupportedOperationException if the underlying store has no array.

Implements **decaf::nio::ShortBuffer** (p. 2341).

6.494.2.3 `virtual ShortBuffer* de-
caf::internal::nio::ShortArrayBuffer::asReadOnlyBuffer ()
const [virtual]`

Creates a new, read-only short buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only short buffer which the caller then owns.

Implements **decaf::nio::ShortBuffer** (p. 2341).

6.494.2.4 `virtual ShortBuffer& decaf::internal::nio::ShortArrayBuffer::compact ()
throw (decaf::nio::ReadOnlyBufferException) [virtual]`

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index `p` = `position()` (p. 631) is copied

to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index **limit()** (p. 631) - 1 is copied to index $n = \text{limit}() - 1 - p$. The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this ShortBuffer

Exceptions:

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ShortBuffer** (p. 2342).

6.494.2.5 **virtual ShortBuffer* decaf::internal::nio::ShortArrayBuffer::duplicate ()**
[virtual]

Creates a new short buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new short Buffer which the caller owns.

Implements **decaf::nio::ShortBuffer** (p. 2342).

6.494.2.6 **virtual short decaf::internal::nio::ShortArrayBuffer::get (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException)**
[virtual]

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the Buffer where the short is to be read

Returns:

the short that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implements **decaf::nio::ShortBuffer** (p. 2344).

6.494.2.7 virtual short decaf::internal::nio::ShortArrayBuffer::get () throw (decaf::nio::BufferUnderflowException) [virtual]

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the short at the current position

Exceptions:

BufferUnderflowException if there no more data to return

Implements **decaf::nio::ShortBuffer** (p. 2344).

6.494.2.8 virtual bool decaf::internal::nio::ShortArrayBuffer::hasArray () const [inline, virtual]

Tells whether or not this buffer is backed by an accessible short array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implements **decaf::nio::ShortBuffer** (p. 2344).

6.494.2.9 virtual bool decaf::internal::nio::ShortArrayBuffer::isReadOnly () const [inline, virtual]

Tells whether or not this buffer is read-only.

Returns:

true if, and only if, this buffer is read-only

Implements **decaf::nio::Buffer** (p. 630).

6.494.2.10 virtual ShortBuffer& decaf::internal::nio::ShortArrayBuffer::put (std::size_t *index*, short *value*) throw (lang::exceptions::IndexOutOfBoundsException, decaf::nio::ReadOnlyBufferException) [virtual]

Writes the given doubles into this buffer at the given index.

Parameters:

index - position in the Buffer to write the data

value - the doubles to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ShortBuffer** (p. 2345).

6.494.2.11 **virtual ShortBuffer& decaf::internal::nio::ShortArrayBuffer::put (short *value*) throw (decaf::nio::BufferOverflowException, decaf::nio::ReadOnlyBufferException)** [virtual]

Writes the given doubles into this buffer at the current position, and then increments the position.

Parameters:

value - the doubles value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException - If this buffer is read-only

Implements **decaf::nio::ShortBuffer** (p. 2345).

6.494.2.12 **virtual void decaf::internal::nio::ShortArrayBuffer::setReadOnly (bool *value*)** [inline, protected, virtual]

Sets this **ByteBuffer** (p. 694) as Read-Only.

Parameters:

value - true if this buffer is to be read-only.

6.494.2.13 **virtual ShortBuffer* decaf::internal::nio::ShortArrayBuffer::slice () const** [virtual]

Creates a new **ShortBuffer** whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **ShortBuffer** which the caller owns.

Implements `decaf::nio::ShortBuffer` (p. 2347).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/nio/ShortArrayBuffer.h`

6.495 decaf::nio::ShortBuffer Class Reference

This class defines four categories of operations upon short buffers:.

#include <src/main/decaf/nio/ShortBuffer.h> Inheritance diagram for decaf::nio::ShortBuffer:

Public Member Functions

- virtual **~ShortBuffer** ()
- virtual std::string **toString** () const
- virtual short * **array** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the short array that backs this buffer (optional operation).
- virtual std::size_t **arrayOffset** ()=0 throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException)
Returns the offset within this buffer's backing array of the first element of the buffer (optional operation).
- virtual **ShortBuffer** * **asReadOnlyBuffer** () const =0
Creates a new, read-only short buffer that shares this buffer's content.
- virtual **ShortBuffer** & **compact** ()=0 throw (ReadOnlyBufferException)
Compacts this buffer.
- virtual **ShortBuffer** * **duplicate** ()=0
Creates a new short buffer that shares this buffer's content.
- virtual short **get** ()=0 throw (BufferUnderflowException)
Relative get method.
- virtual short **get** (std::size_t index) const =0 throw (lang::exceptions::IndexOutOfBoundsException)
Absolute get method.
- **ShortBuffer** & **get** (std::vector< short > buffer) throw (BufferUnderflowException)
Relative bulk get method.
- **ShortBuffer** & **get** (short *buffer, std::size_t offset, std::size_t length) throw (BufferUnderflowException, lang::exceptions::NullPointerException)
Relative bulk get method.
- virtual bool **hasArray** () const =0
Tells whether or not this buffer is backed by an accessible short array.
- **ShortBuffer** & **put** (**ShortBuffer** &src) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)
This method transfers the shorts remaining in the given source buffer into this buffer.

- **ShortBuffer** & **put** (const short *buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)

This method transfers shorts into this buffer from the given source array.

- **ShortBuffer** & **put** (std::vector< short > &buffer) throw (BufferOverflowException, ReadOnlyBufferException)

This method transfers the entire content of the given source shorts array into this buffer.

- virtual **ShortBuffer** & **put** (short value)=0 throw (BufferOverflowException, ReadOnlyBufferException)

Writes the given shorts into this buffer at the current position, and then increments the position.

- virtual **ShortBuffer** & **put** (std::size_t index, short value)=0 throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)

Writes the given shorts into this buffer at the given index.

- virtual **ShortBuffer** * **slice** () const =0

*Creates a new **ShortBuffer** (p. 2338) whose content is a shared subsequence of this buffer's content.*

- virtual int **compareTo** (const **ShortBuffer** &value) const

Compares this object with the specified object for order.

- virtual bool **equals** (const **ShortBuffer** &value) const

- virtual bool **operator==** (const **ShortBuffer** &value) const

Compares equality between this object and the one passed.

- virtual bool **operator<** (const **ShortBuffer** &value) const

Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static **ShortBuffer** * **allocate** (std::size_t capacity)

Allocates a new Double buffer.

- static **ShortBuffer** * **wrap** (short *array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException)

*Wraps the passed buffer with a new **ShortBuffer** (p. 2338).*

- static **ShortBuffer** * **wrap** (std::vector< short > &buffer)

*Wraps the passed STL short Vector in a **ShortBuffer** (p. 2338).*

Protected Member Functions

- **ShortBuffer** (std::size_t capacity)

*Creates a **ShortBuffer** (p. 2338) object that has its backing array allocated internally and is then owned and deleted when this object is deleted.*

6.495.1 Detailed Description

This class defines four categories of operations upon short buffers:

- o Absolute and relative get and put methods that read and write single shorts;
- o Relative bulk get methods that transfer contiguous sequences of shorts from this buffer into an array;
- and
- o Relative bulk put methods that transfer contiguous sequences of shorts from a short array or some other short buffer into this buffer
- o Methods for compacting, duplicating, and slicing a short buffer.

Double buffers can be created either by allocation, which allocates space for the buffer's content, by wrapping an existing short array into a buffer, or by creating a view of an existing byte buffer

Methods in this class that do not otherwise have a value to return are specified to return the buffer upon which they are invoked. This allows method invocations to be chained.

6.495.2 Constructor & Destructor Documentation

6.495.2.1 decaf::nio::ShortBuffer::ShortBuffer (std::size_t capacity) [protected]

Creates a **ShortBuffer** (p. 2338) object that has its backing array allocated internally and is then owned and deleted when this object is deleted. The array is initially created with all elements initialized to zero.

Parameters:

capacity - size and limit of the **Buffer** (p. 627) in doubles

6.495.2.2 virtual decaf::nio::ShortBuffer::~~ShortBuffer () [inline, virtual]

6.495.3 Member Function Documentation

6.495.3.1 static ShortBuffer* decaf::nio::ShortBuffer::allocate (std::size_t capacity) [static]

Allocates a new Double buffer. The new buffer's position will be zero, its limit will be its capacity, and its mark will be undefined. It will have a backing array, and its array offset will be zero.

Parameters:

capacity - The size of the Double buffer in shorts

Returns:

the **ShortBuffer** (p. 2338) that was allocated, caller owns.

6.495.3.2 virtual short* decaf::nio::ShortBuffer::array () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the short array that backs this buffer (optional operation). Modifications to this buffer's content will cause the returned array's content to be modified, and vice versa.

Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

the array that backs this **Buffer** (p. 627)

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2332).

6.495.3.3 virtual std::size_t decaf::nio::ShortBuffer::arrayOffset () throw (decaf::lang::exceptions::UnsupportedOperationException, ReadOnlyBufferException) [pure virtual]

Returns the offset within this buffer's backing array of the first element of the buffer (optional operation). Invoke the `hasArray` method before invoking this method in order to ensure that this buffer has an accessible backing array.

Returns:

The offset into the backing array where index zero starts.

Exceptions:

ReadOnlyBufferException (p. 2167) if this **Buffer** (p. 627) is read only.

UnsupportedOperationException if the underlying store has no array.

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2333).

6.495.3.4 virtual ShortBuffer* decaf::nio::ShortBuffer::asReadOnlyBuffer () const [pure virtual]

Creates a new, read-only short buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer; the new buffer itself, however, will be read-only and will not allow the shared content to be modified. The two buffers' position, limit, and mark values will be independent.

If this buffer is itself read-only then this method behaves in exactly the same way as the `duplicate` method.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer.

Returns:

The new, read-only short buffer which the caller then owns.

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2333).

6.495.3.5 **virtual ShortBuffer& decaf::nio::ShortBuffer::compact () throw (ReadOnlyBufferException) [pure virtual]**

Compacts this buffer. The bytes between the buffer's current position and its limit, if any, are copied to the beginning of the buffer. That is, the byte at index $p = \text{position}()$ (p. 631) is copied to index zero, the byte at index $p + 1$ is copied to index one, and so forth until the byte at index $\text{limit}()$ (p. 631) - 1 is copied to index $n = \text{limit}()$ (p. 631) - 1 - p . The buffer's position is then set to $n+1$ and its limit is set to its capacity. The mark, if defined, is discarded.

The buffer's position is set to the number of bytes copied, rather than to zero, so that an invocation of this method can be followed immediately by an invocation of another relative put method.

Returns:

a reference to this **ShortBuffer** (p. 2338)

Exceptions:

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2333).

6.495.3.6 **virtual int decaf::nio::ShortBuffer::compareTo (const ShortBuffer & value) const [virtual]**

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

6.495.3.7 **virtual ShortBuffer* decaf::nio::ShortBuffer::duplicate () [pure virtual]**

Creates a new short buffer that shares this buffer's content. The content of the new buffer will be that of this buffer. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's capacity, limit, position, and mark values will be identical to those of this buffer. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

a new short **Buffer** (p. 627) which the caller owns.

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2334).

6.495.3.8 virtual bool decaf::nio::ShortBuffer::equals (const ShortBuffer & *value*)
const [virtual]

Returns:

true if this value is considered equal to the passed value.

6.495.3.9 ShortBuffer& decaf::nio::ShortBuffer::get (short * *buffer*, std::size_t
offset, std::size_t *length*) throw (BufferUnderflowException,
lang::exceptions::NullPointerException)

Relative bulk get method. This method transfers shorts from this buffer into the given destination array. If there are fewer shorts remaining in the buffer than are required to satisfy the request, that is, if *length* > **remaining()** (p. 632), then no bytes are transferred and a **BufferUnderflowException** (p. 661) is thrown.

Otherwise, this method copies *length* shorts from this buffer into the given array, starting at the current position of this buffer and at the given offset in the array. The position of this buffer is then incremented by *length*.

Parameters:

buffer - pointer to an allocated buffer to fill

offset - position in the buffer to start filling

length - amount of data to put in the passed buffer

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* shorts remaining in this buffer

NullPointerException if the passed buffer is null.

6.495.3.10 ShortBuffer& decaf::nio::ShortBuffer::get (std::vector< short > *buffer*)
throw (BufferUnderflowException)

Relative bulk get method. This method transfers values from this buffer into the given destination vector. An invocation of this method of the form *src.get(a)* behaves in exactly the same way as the invocation. The vector must be sized to the amount of data that is to be read, that is to say, the caller should call *buffer.resize(N)* before calling this get method.

Returns:

a reference to this **Buffer** (p. 627)

Exceptions:

BufferUnderflowException (p. 661) - If there are fewer than *length* shorts remaining in this buffer

6.495.3.11 `virtual short decaf::nio::ShortBuffer::get (std::size_t index) const throw (lang::exceptions::IndexOutOfBoundsException) [pure virtual]`

Absolute get method. Reads the value at the given index.

Parameters:

index - the index in the **Buffer** (p. 627) where the short is to be read

Returns:

the short that is located at the given index

Exceptions:

IndexOutOfBoundsException - If index is not smaller than the buffer's limit

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2334).

6.495.3.12 `virtual short decaf::nio::ShortBuffer::get () throw (BufferUnderflowException) [pure virtual]`

Relative get method. Reads the value at this buffer's current position, and then increments the position.

Returns:

the short at the current position

Exceptions:

BufferUnderflowException (p. 661) if there no more data to return

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2335).

6.495.3.13 `virtual bool decaf::nio::ShortBuffer::hasArray () const [pure virtual]`

Tells whether or not this buffer is backed by an accessible short array. If this method returns true then the array and arrayOffset methods may safely be invoked. Subclasses should override this method if they do not have a backing array as this class always returns true.

Returns:

true if, and only if, this buffer is backed by an array and is not read-only

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2335).

6.495.3.14 `virtual bool decaf::nio::ShortBuffer::operator< (const ShortBuffer & value) const [virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.495.3.15 `virtual bool decaf::nio::ShortBuffer::operator==(const ShortBuffer & value) const` [virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.495.3.16 `virtual ShortBuffer& decaf::nio::ShortBuffer::put (std::size_t index, short value) throw (lang::exceptions::IndexOutOfBoundsException, ReadOnlyBufferException)` [pure virtual]

Writes the given shorts into this buffer at the given index.

Parameters:

index - position in the **Buffer** (p. 627) to write the data

value - the shorts to write.

Returns:

a reference to this buffer

Exceptions:

IndexOutOfBoundsException - If index greater than the buffer's limit minus the size of the type being written.

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2335).

6.495.3.17 `virtual ShortBuffer& decaf::nio::ShortBuffer::put (short value) throw (BufferOverflowException, ReadOnlyBufferException)` [pure virtual]

Writes the given shorts into this buffer at the current position, and then increments the position.

Parameters:

value - the shorts value to be written

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If this buffer's current position is not smaller than its limit

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2336).

6.495.3.18 **ShortBuffer& decaf::nio::ShortBuffer::put (std::vector< short > & buffer) throw (BufferOverflowException, ReadOnlyBufferException)**

This method transfers the entire content of the given source shorts array into this buffer. This is the same as calling `put(&buffer[0], 0, buffer.size()`

Parameters:

buffer - The buffer whose contents are copied to this **ShortBuffer** (p. 2338)

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.495.3.19 **ShortBuffer& decaf::nio::ShortBuffer::put (const short * buffer, std::size_t offset, std::size_t length) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::NullPointerException)**

This method transfers shorts into this buffer from the given source array. If there are more shorts to be copied from the array than remain in this buffer, that is, if `length > remaining()` (p. 632), then no shorts are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `length` bytes from the given array into this buffer, starting at the given `offset` in the array and at the current position of this buffer. The position of this buffer is then incremented by `length`.

Parameters:

buffer- The array from which shorts are to be read

offset- The offset within the array of the first short to be read;

length - The number of shorts to be read from the given array

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

NullPointerException if the passed buffer is null.

6.495.3.20 ShortBuffer& decaf::nio::ShortBuffer::put (ShortBuffer & *src*) throw (BufferOverflowException, ReadOnlyBufferException, lang::exceptions::IllegalArgumentException)

This method transfers the shorts remaining in the given source buffer into this buffer. If there are more shorts remaining in the source buffer than in this buffer, that is, if `src.remaining() > remaining()` (p. 632), then no shorts are transferred and a **BufferOverflowException** (p. 658) is thrown.

Otherwise, this method copies `n = src.remaining()` shorts from the given buffer into this buffer, starting at each buffer's current position. The positions of both buffers are then incremented by `n`.

Parameters:

src - the buffer to take shorts from an place in this one.

Returns:

a reference to this buffer

Exceptions:

BufferOverflowException (p. 658) - If there is insufficient space in this buffer for the remaining shorts in the source buffer

IllegalArgumentException - If the source buffer is this buffer

ReadOnlyBufferException (p. 2167) - If this buffer is read-only

6.495.3.21 virtual ShortBuffer* decaf::nio::ShortBuffer::slice () const [pure virtual]

Creates a new **ShortBuffer** (p. 2338) whose content is a shared subsequence of this buffer's content. The content of the new buffer will start at this buffer's current position. Changes to this buffer's content will be visible in the new buffer, and vice versa; the two buffers' position, limit, and mark values will be independent.

The new buffer's position will be zero, its capacity and its limit will be the number of bytes remaining in this buffer, and its mark will be undefined. The new buffer will be read-only if, and only if, this buffer is read-only.

Returns:

the newly create **ShortBuffer** (p. 2338) which the caller owns.

Implemented in **decaf::internal::nio::ShortArrayBuffer** (p. 2336).

6.495.3.22 virtual std::string decaf::nio::ShortBuffer::toString () const [virtual]

Returns:

a std::string describing this object

6.495.3.23 `static ShortBuffer* decaf::nio::ShortBuffer::wrap (std::vector< short > & buffer) [static]`

Wraps the passed STL short Vector in a **ShortBuffer** (p.2338). The new buffer will be backed by the given short array; modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity and limit will be `buffer.size()`, its position will be zero, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

buffer - The vector that will back the new buffer, the vector must have been sized to the desired size already by calling `vector.resize(N)`.

Returns:

a new **ShortBuffer** (p.2338) that is backed by *buffer*, caller owns.

6.495.3.24 `static ShortBuffer* decaf::nio::ShortBuffer::wrap (short * array, std::size_t offset, std::size_t length) throw (lang::exceptions::NullPointerException) [static]`

Wraps the passed buffer with a new **ShortBuffer** (p.2338). The new buffer will be backed by the given short array; that is, modifications to the buffer will cause the array to be modified and vice versa. The new buffer's capacity will be `array.length`, its position will be `offset`, its limit will be `offset + length`, and its mark will be undefined. Its backing array will be the given array, and its array offset will be zero.

Parameters:

array - The array that will back the new buffer

offset - The offset of the subarray to be used

length - The length of the subarray to be used

Returns:

a new **ShortBuffer** (p.2338) that is backed by *buffer*, caller owns.

The documentation for this class was generated from the following file:

- `src/main/decaf/nio/ShortBuffer.h`

6.496 activemq::commands::ShutdownInfo Class Reference

#include <src/main/activemq/commands/ShutdownInfo.h> Inheritance diagram for activemq::commands::ShutdownInfo:

Public Member Functions

- **ShutdownInfo** ()
- virtual **~ShutdownInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **ShutdownInfo * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual bool **isShutdownInfo** () const
- virtual **Pointer< Command > visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID _SHUTDOWNINFO** = 11

Protected Member Functions

- **ShutdownInfo** (const **ShutdownInfo** &)
- **ShutdownInfo** & operator= (const **ShutdownInfo** &)

6.496.1 Constructor & Destructor Documentation

6.496.1.1 `activemq::commands::ShutdownInfo::ShutdownInfo (const ShutdownInfo &) [inline, protected]`

6.496.1.2 `activemq::commands::ShutdownInfo::ShutdownInfo ()`

6.496.1.3 `virtual activemq::commands::ShutdownInfo::~~ShutdownInfo () [virtual]`

6.496.2 Member Function Documentation

6.496.2.1 `virtual ShutdownInfo* activemq::commands::ShutdownInfo::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.496.2.2 `virtual void activemq::commands::ShutdownInfo::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.496.2.3 `virtual bool activemq::commands::ShutdownInfo::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.496.2.4 `virtual unsigned char activemq::commands::ShutdownInfo::getDataStructureType () const [virtual]`

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

6.496.2.5 **virtual bool activemq::commands::ShutdownInfo::isShutdownInfo ()**
const [inline, virtual]

Returns:

an answer of true to the **isShutdownInfo()** (p. 2351) query.

Reimplemented from **activemq::commands::BaseCommand** (p. 511).

6.496.2.6 **ShutdownInfo& activemq::commands::ShutdownInfo::operator= (const**
ShutdownInfo &) [inline, protected]

6.496.2.7 **virtual std::string activemq::commands::ShutdownInfo::toString () const**
[virtual]

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

6.496.2.8 **virtual Pointer<Command> activemq::commands::ShutdownInfo::visit**
(activemq::state::CommandVisitor * visitor) throw (
exceptions::ActiveMQException) [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements **activemq::commands::Command** (p. 883).

6.496.3 Field Documentation

6.496.3.1 **const unsigned char activemq::commands::ShutdownInfo::ID_ -**
SHUTDOWNINFO = 11 [static]

The documentation for this class was generated from the following file:

- src/main/activemq/commands/**ShutdownInfo.h**

6.497 activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2352).

#include <src/main/activemq/wireformat/openwire/marshal/v2/ShutdownInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller:

Public Member Functions

- **ShutdownInfoMarshaller** ()
- virtual **~ShutdownInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.497.1 Detailed Description

Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2352). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.497.2 Constructor & Destructor Documentation

6.497.2.1 `activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::ShutdownInfoMarshaller()` [inline]

6.497.2.2 `virtual activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::~~ShutdownInfoMarshaller()` [inline, virtual]

6.497.3 Member Function Documentation

6.497.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.497.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.497.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.497.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.497.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.497.3.6 virtual void activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.497.3.7 virtual void activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**ShutdownInfoMarshaller.h**

6.498 activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2356).

#include <src/main/activemq/wireformat/openwire/marshal/v1/ShutdownInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller:

Public Member Functions

- **ShutdownInfoMarshaller** ()
- virtual **~ShutdownInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.498.1 Detailed Description

Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2356). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.498.2 Constructor & Destructor Documentation

6.498.2.1 `activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::ShutdownInfoMarshaller()` [inline]

6.498.2.2 `virtual activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::~~ShutdownInfoMarshaller()` [inline, virtual]

6.498.3 Member Function Documentation

6.498.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::createObject() const` [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.498.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::getDataStructureType() const` [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.498.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.498.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.498.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.498.3.6 virtual void activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.498.3.7 virtual void activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**ShutdownInfoMarshaller.h**

6.499 activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2360).

#include <src/main/activemq/wireformat/openwire/marshal/v3/ShutdownInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller:

Public Member Functions

- **ShutdownInfoMarshaller** ()
- virtual **~ShutdownInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.499.1 Detailed Description

Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2360). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.499.2 Constructor & Destructor Documentation

6.499.2.1 `activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::ShutdownInfoMarshaller()` [inline]

6.499.2.2 `virtual activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::~~ShutdownInfoMarshaller()` [inline, virtual]

6.499.3 Member Function Documentation

6.499.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.499.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.499.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.499.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.499.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.499.3.6 virtual void activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.499.3.7 virtual void activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**ShutdownInfoMarshaller.h**

6.500 decaf::security::SignatureException Class Reference

`#include <src/main/decaf/security/SignatureException.h>` Inheritance diagram for decaf::security::SignatureException:

Public Member Functions

- **SignatureException** () throw ()
Default Constructor.
- **SignatureException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **SignatureException** (const **SignatureException** &ex) throw ()
Copy Constructor.
- **SignatureException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **SignatureException** (const std::exception *cause) throw ()
Constructor.
- **SignatureException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **SignatureException** * clone () const
Clones this exception.
- virtual ~**SignatureException** () throw ()

6.500.1 Constructor & Destructor Documentation

6.500.1.1 decaf::security::SignatureException::SignatureException () throw () [inline]

Default Constructor.

6.500.1.2 decaf::security::SignatureException::SignatureException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.500.1.3 decaf::security::SignatureException::SignatureException (const SignatureException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.500.1.4 decaf::security::SignatureException::SignatureException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.500.1.5 decaf::security::SignatureException::SignatureException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.500.1.6 decaf::security::SignatureException::SignatureException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file name where exception occurs

lineNumber line number where the exception occurred.

msg message to report

... list of primitives that are formatted into the message

6.500.1.7 `virtual decaf::security::SignatureException::~~SignatureException ()
 throw () [inline, virtual]`

6.500.2 Member Function Documentation

6.500.2.1 `virtual SignatureException* decaf::security::SignatureException::clone ()
 const [inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A deep copy of this exception.

Reimplemented from `decaf::security::GeneralSecurityException` (p. 1381).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/SignatureException.h`

6.501 decaf::util::logging::SimpleFormatter Class Reference

Print a brief summary of the **LogRecord** (p. 1645) in a human readable format.

#include <src/main/decaf/util/logging/SimpleFormatter.h>Inheritance diagram for decaf::util::logging::SimpleFormatter:

Public Member Functions

- **SimpleFormatter** ()
- virtual **~SimpleFormatter** ()
- virtual std::string **format** (const **LogRecord** &record) const
Format the given log record and return the formatted string.
- virtual std::string **formatMessage** (const **LogRecord** &record) const
Format the message string from a log record.
- virtual std::string **getHead** (const **Handler** *handler)
Return the header string for a set of formatted records.
- virtual std::string **getTail** (const **Handler** *handler)
Return the tail string for a set of formatted records.

6.501.1 Detailed Description

Print a brief summary of the **LogRecord** (p. 1645) in a human readable format. The summary will typically be 1 or 2 lines.

6.501.2 Constructor & Destructor Documentation

6.501.2.1 decaf::util::logging::SimpleFormatter::SimpleFormatter () [inline]

6.501.2.2 virtual decaf::util::logging::SimpleFormatter::~~SimpleFormatter ()
[inline, virtual]

6.501.3 Member Function Documentation

6.501.3.1 virtual std::string decaf::util::logging::SimpleFormatter::format (const **LogRecord** & *record*) const [inline, virtual]

Format the given log record and return the formatted string.

Parameters:

record The Log Record to Format

Implements **decaf::util::logging::Formatter** (p. 1372).

6.501.3.2 `virtual std::string decaf::util::logging::SimpleFormatter::formatMessage (const LogRecord & record) const` [inline, virtual]

Format the message string from a log record.

Parameters:

record The Log Record to Format

Implements `decaf::util::logging::Formatter` (p. 1373).

References `decaf::util::logging::LogRecord::getMessage()`.

6.501.3.3 `virtual std::string decaf::util::logging::SimpleFormatter::getHead (const Handler * handler)` [inline, virtual]

Return the header string for a set of formatted records. In the default implementation this method should return empty string

Parameters:

handler the target handler, can be null

Returns:

empty string

Implements `decaf::util::logging::Formatter` (p. 1373).

6.501.3.4 `virtual std::string decaf::util::logging::SimpleFormatter::getTail (const Handler * handler)` [inline, virtual]

Return the tail string for a set of formatted records. In the default implementation this method should return empty string

Parameters:

handler the target handler, can be null

Returns:

empty string

Implements `decaf::util::logging::Formatter` (p. 1373).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/logging/SimpleFormatter.h`

6.502 decaf::util::logging::SimpleLogger Class Reference

```
#include <src/main/decaf/util/logging/SimpleLogger.h>
```

Public Member Functions

- **SimpleLogger** (const std::string &name)
Constructor.
- virtual **~SimpleLogger** ()
Destructor.
- virtual void **mark** (const std::string &message)
Log a Mark Block Level Log.
- virtual void **debug** (const std::string &file, const int line, const std::string &message)
Log a Debug Level Log.
- virtual void **info** (const std::string &file, const int line, const std::string &message)
Log a Informational Level Log.
- virtual void **warn** (const std::string &file, const int line, const std::string &message)
Log a Warning Level Log.
- virtual void **error** (const std::string &file, const int line, const std::string &message)
Log a Error Level Log.
- virtual void **fatal** (const std::string &file, const int line, const std::string &message)
Log a Fatal Level Log.
- virtual void **log** (const std::string &message)
No-frills log.

6.502.1 Constructor & Destructor Documentation

6.502.1.1 decaf::util::logging::SimpleLogger::SimpleLogger (const std::string &name)

Constructor.

6.502.1.2 virtual decaf::util::logging::SimpleLogger::~~SimpleLogger () [virtual]

Destructor.

6.502.2 Member Function Documentation

6.502.2.1 `virtual void decaf::util::logging::SimpleLogger::debug (const std::string & file, const int line, const std::string & message) [virtual]`

Log a Debug Level Log.

6.502.2.2 `virtual void decaf::util::logging::SimpleLogger::error (const std::string & file, const int line, const std::string & message) [virtual]`

Log a Error Level Log.

6.502.2.3 `virtual void decaf::util::logging::SimpleLogger::fatal (const std::string & file, const int line, const std::string & message) [virtual]`

Log a Fatal Level Log.

6.502.2.4 `virtual void decaf::util::logging::SimpleLogger::info (const std::string & file, const int line, const std::string & message) [virtual]`

Log a Informational Level Log.

6.502.2.5 `virtual void decaf::util::logging::SimpleLogger::log (const std::string & message) [virtual]`

No-frills log.

6.502.2.6 `virtual void decaf::util::logging::SimpleLogger::mark (const std::string & message) [virtual]`

Log a Mark Block Level Log.

6.502.2.7 `virtual void decaf::util::logging::SimpleLogger::warn (const std::string & file, const int line, const std::string & message) [virtual]`

Log a Warning Level Log.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/logging/SimpleLogger.h`

6.503 decaf::net::Socket Class Reference

#include <src/main/decaf/net/Socket.h> Inheritance diagram for decaf::net::Socket:

Public Types

- typedef apr_socket_t * **SocketHandle**
Define the SocketHandle type.
- typedef apr_sockaddr_t * **SocketAddress**
Define the SocketAddress type.

Public Member Functions

- virtual ~**Socket** ()
- virtual void **connect** (const char *host, int port)=0 throw (SocketException)
Connects to the specified destination.
- virtual bool **isConnected** () const =0
Indicates whether or not this socket is connected to a destination.
- virtual io::InputStream * **getInputStream** ()=0
Gets the InputStream for this socket.
- virtual io::OutputStream * **getOutputStream** ()=0
Gets the OutputStream for this socket.
- virtual int **getSoLinger** () const =0 throw (SocketException)
Gets the linger time.
- virtual void **setSoLinger** (int linger)=0 throw (SocketException)
Sets the linger time.
- virtual bool **getKeepAlive** () const =0 throw (SocketException)
Gets the keep alive flag.
- virtual void **setKeepAlive** (bool keepAlive)=0 throw (SocketException)
Enables/disables the keep alive flag.
- virtual int **getReceiveBufferSize** () const =0 throw (SocketException)
Gets the receive buffer size.
- virtual void **setReceiveBufferSize** (int size)=0 throw (SocketException)
Sets the receive buffer size.
- virtual bool **getReuseAddress** () const =0 throw (SocketException)

Gets the reuse address flag.

- virtual void **setReuseAddress** (bool reuse)=0 throw (SocketException)
Sets the reuse address flag.
- virtual int **getSendBufferSize** () const =0 throw (SocketException)
Gets the send buffer size.
- virtual void **setSendBufferSize** (int size)=0 throw (SocketException)
Sets the send buffer size.
- virtual int **getSoTimeout** () const =0 throw (SocketException)
Gets the timeout for socket operations.
- virtual void **setSoTimeout** (int timeout)=0 throw (SocketException)
Sets the timeout for socket operations.

Static Public Attributes

- static const int **INVALID_SOCKET_HANDLE** = 0
Defines a constant for an invalid socket handle.

6.503.1 Member Typedef Documentation

6.503.1.1 typedef apr_sockaddr_t* decaf::net::Socket::SocketAddress

Define the SocketAddress type.

6.503.1.2 typedef apr_socket_t* decaf::net::Socket::SocketHandle

Define the SocketHandle type.

6.503.2 Constructor & Destructor Documentation

6.503.2.1 virtual decaf::net::Socket::~~Socket () [inline, virtual]

6.503.3 Member Function Documentation

6.503.3.1 virtual void decaf::net::Socket::connect (const char * *host*, int *port*) throw (SocketException) [pure virtual]

Connects to the specified destination. Closes this socket if connected to another destination.

Parameters:

host The host of the server to connect to.

port The port of the server to connect to.

Exceptions:

IOException Thrown if a failure occurred in the connect.

Implemented in **decaf::net::BufferedSocket** (p. 643), and **decaf::net::TcpSocket** (p. 2526).

6.503.3.2 virtual io::InputStream* decaf::net::Socket::getInputStream () [pure virtual]

Gets the InputStream for this socket.

Returns:

The InputStream for this socket. NULL if not connected.

Implemented in **decaf::net::BufferedSocket** (p. 643), and **decaf::net::TcpSocket** (p. 2527).

6.503.3.3 virtual bool decaf::net::Socket::getKeepAlive () const throw (SocketException) [pure virtual]

Gets the keep alive flag.

Returns:

True if keep alive is enabled.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 643), and **decaf::net::TcpSocket** (p. 2527).

Referenced by **decaf::net::BufferedSocket::getKeepAlive()**.

6.503.3.4 virtual io::OutputStream* decaf::net::Socket::getOutputStream () [pure virtual]

Gets the OutputStream for this socket.

Returns:

the OutputStream for this socket. NULL if not connected.

Implemented in **decaf::net::BufferedSocket** (p. 643), and **decaf::net::TcpSocket** (p. 2527).

6.503.3.5 virtual int decaf::net::Socket::getReceiveBufferSize () const throw (SocketException) [pure virtual]

Gets the receive buffer size.

Returns:

the receive buffer size in bytes.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 644), and **decaf::net::TcpSocket** (p. 2527).

Referenced by **decaf::net::BufferedSocket::getReceiveBufferSize()**.

6.503.3.6 **virtual bool decaf::net::Socket::getReuseAddress () const throw (SocketException) [pure virtual]**

Gets the reuse address flag.

Returns:

True if the address can be reused.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 644), and **decaf::net::TcpSocket** (p. 2528).

Referenced by **decaf::net::BufferedSocket::getReuseAddress()**.

6.503.3.7 **virtual int decaf::net::Socket::getSendBufferSize () const throw (SocketException) [pure virtual]**

Gets the send buffer size.

Returns:

the size in bytes of the send buffer.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 644), and **decaf::net::TcpSocket** (p. 2528).

Referenced by **decaf::net::BufferedSocket::getSendBufferSize()**.

6.503.3.8 **virtual int decaf::net::Socket::getSoLinger () const throw (SocketException) [pure virtual]**

Gets the linger time.

Returns:

The linger time in seconds.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 644), and **decaf::net::TcpSocket** (p. 2528).

Referenced by **decaf::net::BufferedSocket::getSoLinger()**.

6.503.3.9 virtual int decaf::net::Socket::getSoTimeout () const throw (SocketException) [pure virtual]

Gets the timeout for socket operations.

Returns:

The timeout in milliseconds for socket operations.

Exceptions:

SocketException (p. 2379) Thrown if unable to retrieve the information.

Implemented in **decaf::net::BufferedSocket** (p. 645), and **decaf::net::TcpSocket** (p. 2529).

Referenced by decaf::net::BufferedSocket::getSoTimeout().

6.503.3.10 virtual bool decaf::net::Socket::isConnected () const [pure virtual]

Indicates whether or not this socket is connected to a destination.

Returns:

true if connected

Implemented in **decaf::net::BufferedSocket** (p. 645), and **decaf::net::TcpSocket** (p. 2529).

Referenced by decaf::net::BufferedSocket::isConnected().

6.503.3.11 virtual void decaf::net::Socket::setKeepAlive (bool *keepAlive*) throw (SocketException) [pure virtual]

Enables/disables the keep alive flag.

Parameters:

keepAlive If true, enables the flag.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 645), and **decaf::net::TcpSocket** (p. 2529).

Referenced by decaf::net::BufferedSocket::setKeepAlive().

6.503.3.12 virtual void decaf::net::Socket::setReceiveBufferSize (int *size*) throw (SocketException) [pure virtual]

Sets the receive buffer size.

Parameters:

size Number of bytes to set the receive buffer to.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 646), and **decaf::net::TcpSocket** (p. 2530).

Referenced by **decaf::net::BufferedSocket::setReceiveBufferSize()**.

6.503.3.13 **virtual void decaf::net::Socket::setReuseAddress (bool *reuse*) throw (SocketException)** [pure virtual]

Sets the reuse address flag.

Parameters:

reuse If true, sets the flag.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 646), and **decaf::net::TcpSocket** (p. 2530).

Referenced by **decaf::net::BufferedSocket::setReuseAddress()**.

6.503.3.14 **virtual void decaf::net::Socket::setSendBufferSize (int *size*) throw (SocketException)** [pure virtual]

Sets the send buffer size.

Parameters:

size The number of bytes to set the send buffer to.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 646), and **decaf::net::TcpSocket** (p. 2530).

Referenced by **decaf::net::BufferedSocket::setSendBufferSize()**.

6.503.3.15 **virtual void decaf::net::Socket::setSoLinger (int *linger*) throw (SocketException)** [pure virtual]

Sets the linger time.

Parameters:

linger The linger time in seconds. If 0, linger is off.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implemented in **decaf::net::BufferedSocket** (p. 646), and **decaf::net::TcpSocket** (p. 2530).

Referenced by **decaf::net::BufferedSocket::setSoLinger()**.

6.503.3.16 `virtual void decaf::net::Socket::setSoTimeout (int timeout) throw (SocketException)` [pure virtual]

Sets the timeout for socket operations.

Parameters:

timeout The timeout in milliseconds for socket operations.

Exceptions:

SocketException (p. 2379) Thrown if unable to set the information.

Implemented in `decaf::net::BufferedSocket` (p. 647), and `decaf::net::TcpSocket` (p. 2531).

Referenced by `decaf::net::BufferedSocket::setSoTimeout()`.

6.503.4 Field Documentation

6.503.4.1 `const int decaf::net::Socket::INVALID_SOCKET_HANDLE = 0`
[static]

Defines a constant for an invalid socket handle.

The documentation for this class was generated from the following file:

- `src/main/decaf/net/Socket.h`

6.504 decaf::net::SocketError Class Reference

Static utility class to simplify handling of error codes for socket operations.

```
#include <src/main/decaf/net/SocketError.h>
```

Static Public Member Functions

- static int **getErrorCode** ()
Gets the last error appropriate for the platform.
- static std::string **getErrorString** ()
Gets the string description for the last error.

6.504.1 Detailed Description

Static utility class to simplify handling of error codes for socket operations.

6.504.2 Member Function Documentation

6.504.2.1 static int decaf::net::SocketError::getErrorCode () [static]

Gets the last error appropriate for the platform.

6.504.2.2 static std::string decaf::net::SocketError::getErrorString () [static]

Gets the string description for the last error.

The documentation for this class was generated from the following file:

- src/main/decaf/net/**SocketError.h**

6.505 decaf::net::SocketException Class Reference

Exception for errors when manipulating sockets.

#include <src/main/decaf/net/SocketException.h> Inheritance diagram for decaf::net::SocketException:

Public Member Functions

- **SocketException** () throw ()
- **SocketException** (const lang::Exception &ex) throw ()
- **SocketException** (const SocketException &ex) throw ()
- **SocketException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **SocketException** (const std::exception *cause) throw ()
Constructor.
- **SocketException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **SocketException** * clone () const
Clones this exception.
- virtual ~**SocketException** () throw ()

6.505.1 Detailed Description

Exception for errors when manipulating sockets.

6.505.2 Constructor & Destructor Documentation

- 6.505.2.1 decaf::net::SocketException::SocketException () throw () [inline]
- 6.505.2.2 decaf::net::SocketException::SocketException (const lang::Exception &ex) throw () [inline]
- 6.505.2.3 decaf::net::SocketException::SocketException (const SocketException &ex) throw () [inline]
- 6.505.2.4 decaf::net::SocketException::SocketException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs
lineNumber The line number where the exception occurred.
cause The exception that was the cause for this one to be thrown.
msg The message to report
... list of primitives that are formatted into the message

6.505.2.5 `decaf::net::SocketException::SocketException (const std::exception *
cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.505.2.6 `decaf::net::SocketException::SocketException (const char * file, const int
lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs
lineNumber The line number where the exception occurred.
msg The message to report
... list of primitives that are formatted into the message

6.505.2.7 `virtual decaf::net::SocketException::~SocketException () throw ()
[inline, virtual]`

6.505.3 Member Function Documentation

6.505.3.1 `virtual SocketException* decaf::net::SocketException::clone () const
[inline, virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from `decaf::io::IOException` (p. 1479).

Reimplemented in `decaf::net::BindException` (p. 565), `decaf::net::ConnectException` (p. 940), `decaf::net::NoRouteToHostException` (p. 1941), and `decaf::net::PortUnreachableException` (p. 2039).

The documentation for this class was generated from the following file:

-
- `src/main/decaf/net/SocketException.h`

6.506 decaf::net::SocketFactory Class Reference

Socket (p. 2371) Factory implementation for use in Creating Sockets.

```
#include <src/main/decaf/net/SocketFactory.h>
```

Public Member Functions

- virtual **~SocketFactory** ()

Static Public Member Functions

- static **Socket * createSocket** (const std::string &uri, const **util::Properties** &properties) throw (**SocketException**)

*Creates and returns a **Socket** (p. 2371) derived Object based on the values defined in the Properties Object that is passed in.*

6.506.1 Detailed Description

Socket (p. 2371) Factory implementation for use in Creating Sockets. Property Options:

Name Value

inputBufferSize size in bytes of the buffered input stream buffer. Defaults to 10000.

outputBufferSize size in bytes of the buffered output stream buffer. Defaults to 10000.

soLinger linger time for the socket (in microseconds). Defaults to 0.

soKeepAlive keep alive flag for the socket (true/false). Defaults to false.

soReceiveBufferSize The size of the socket receive buffer (in bytes). Defaults to 2MB.

soSendBufferSize The size of the socket send buffer (in bytes). Defaults to 2MB.

soTimeout The timeout of socket IO operations (in microseconds). Defaults to 10000

See also:

Socket (p. 2371)

6.506.2 Constructor & Destructor Documentation

6.506.2.1 virtual **decaf::net::SocketFactory::~~SocketFactory** () [inline, virtual]

6.506.3 Member Function Documentation

6.506.3.1 static **Socket*** **decaf::net::SocketFactory::createSocket** (const std::string & *uri*, const **util::Properties** & *properties*) throw (**SocketException**) [static]

Creates and returns a **Socket** (p. 2371) derived Object based on the values defined in the Properties Object that is passed in.

Parameters:

- uri* the **URI** (p. 2638) for the **Socket** (p. 2371) Connection.
- properties* A Properties object that contains configuration details.

Exceptions:

SocketException.

The documentation for this class was generated from the following file:

- src/main/decaf/net/**SocketFactory.h**

6.507 decaf::net::SocketInputStream Class Reference

Input stream for performing reads on a socket.

#include <src/main/decaf/net/SocketInputStream.h> Inheritance diagram for decaf::net::SocketInputStream:

Public Member Functions

- **SocketInputStream** (**Socket::SocketHandle** socket)
Constructor.
- virtual **~SocketInputStream** ()
Destructor.
- virtual std::size_t **available** () const throw (io::IOException)
Returns the number of bytes available on the socket to be read right now.
- virtual unsigned char **read** () throw (io::IOException)
Reads a single byte from the buffer.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize) throw (io::IOException, lang::exceptions::NullPointerException)
Reads an array of bytes from the buffer.
- virtual void **close** () throw (lang::Exception)
Close - does nothing.
- virtual std::size_t **skip** (std::size_t num) throw (io::IOException, lang::exceptions::UnsupportedOperationException)
Not supported.
- virtual void **mark** (int readLimit DECAF_UNUSED)
Marks the current position in the stream A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes.
- virtual void **reset** () throw (io::IOException)
Repositions this stream to the position at the time the mark method was last called on this input stream.
- virtual bool **markSupported** () const
Determines if this input stream supports the mark and reset methods.
- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.

- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.507.1 Detailed Description

Input stream for performing reads on a socket. This class will only work properly for blocking sockets.

6.507.2 Constructor & Destructor Documentation

6.507.2.1 decaf::net::SocketInputStream::SocketInputStream (Socket::SocketHandle *socket*)

Constructor.

Parameters:

socket the socket handle.

6.507.2.2 virtual decaf::net::SocketInputStream::~~SocketInputStream () [virtual]

Destructor.

6.507.3 Member Function Documentation

6.507.3.1 virtual std::size_t decaf::net::SocketInputStream::available () const throw (io::IOException) [virtual]

Returns the number of bytes available on the socket to be read right now.

Returns:

The number of bytes currently available to be read on the socket.

Implements **decaf::io::InputStream** (p. 1407).

6.507.3.2 virtual void decaf::net::SocketInputStream::close () throw (lang::Exception) [virtual]

Close - does nothing. It is the responsibility of the owner of the socket object to close it.

Exceptions:

CMSException

Implements **decaf::io::Closeable** (p. 840).

6.507.3.3 **virtual void decaf::net::SocketInputStream::lock () throw (lang::Exception)** [inline, virtual]

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.507.3.4 **virtual void decaf::net::SocketInputStream::mark (int readLimit DECAF_UNUSED)** [inline, virtual]

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes. If a stream instance reports that marks are supported then the stream will ensure that the same bytes can be read again after the reset method is called so long the readLimit is not reached.

Parameters:

readLimit - max bytes read before marked position is invalid.

Implements **decaf::io::InputStream** (p. 1407).

6.507.3.5 **virtual bool decaf::net::SocketInputStream::markSupported () const** [inline, virtual]

Determines if this input stream supports the mark and reset methods. Whether or not mark and reset are supported is an invariant property of a particular input stream instance.

Returns:

true if this stream instance supports marks

Implements **decaf::io::InputStream** (p. 1407).

6.507.3.6 **virtual void decaf::net::SocketInputStream::notify () throw (lang::Exception)** [inline, virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.507.3.7 virtual void decaf::net::SocketInputStream::notifyAll () throw (lang::Exception) [inline, virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements decaf::util::concurrent::Synchronizable (p.2511).

6.507.3.8 virtual int decaf::net::SocketInputStream::read (unsigned char * *buffer*, std::size_t *offset*, std::size_t *bufferSize*) throw (io::IOException, lang::exceptions::NullPointerException) [virtual]

Reads an array of bytes from the buffer. If the desired amount of data is not currently available, this operation will block until the appropriate amount of data is available.

Parameters:

buffer (out) the target buffer

offset the position in the buffer to start from.

bufferSize the size of the output buffer.

Returns:

the number of bytes read. or -1 if EOF

Exceptions:

IOException if an error occurs.

Implements decaf::io::InputStream (p.1408).

6.507.3.9 virtual unsigned char decaf::net::SocketInputStream::read () throw (io::IOException) [virtual]

Reads a single byte from the buffer. If no data is available, blocks until there is.

Returns:

The next byte.

Exceptions:

IOException thrown if an error occurs.

Implements decaf::io::InputStream (p.1408).

6.507.3.10 `virtual void decaf::net::SocketInputStream::reset () throw (io::IOException) [inline, virtual]`

Repositions this stream to the position at the time the mark method was last called on this input stream. If the method markSupported returns true, then: * If the method mark has not been called since the stream was created, or the number of bytes read from the stream since mark was last called is larger than the argument to mark at that last call, then an IOException might be thrown. * If such an IOException is not thrown, then the stream is reset to a state such that all the bytes read since the most recent call to mark (or since the start of the file, if mark has not been called) will be resupplied to subsequent callers of the read method, followed by any bytes that otherwise would have been the next input data as of the time of the call to reset. If the method markSupported returns false, then: * The call to reset may throw an IOException. * If an IOException is not thrown, then the stream is reset to a fixed state that depends on the particular type of the input stream and how it was created. The bytes that will be supplied to subsequent callers of the read method depend on the particular type of the input stream.

Exceptions:

IOException

Implements `decaf::io::InputStream` (p. 1408).

6.507.3.11 `virtual std::size_t decaf::net::SocketInputStream::skip (std::size_t num) throw (io::IOException, lang::exceptions::UnsupportedOperationException) [virtual]`

Not supported.

Exceptions:

an UnsupportedOperationException.

Implements `decaf::io::InputStream` (p. 1409).

6.507.3.12 `virtual void decaf::net::SocketInputStream::unlock () throw (lang::Exception) [inline, virtual]`

Unlocks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2512).

6.507.3.13 `virtual void decaf::net::SocketInputStream::wait (unsigned long millisecs) throw (lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

millisecs the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:*Exception*

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.507.3.14 virtual void decaf::net::SocketInputStream::wait () throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:*Exception*

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

The documentation for this class was generated from the following file:

- src/main/decaf/net/**SocketInputStream.h**

6.508 decaf::net::SocketOutputStream Class Reference

Output stream for performing write operations on a socket.

#include <src/main/decaf/net/SocketOutputStream.h> Inheritance diagram for decaf::net::SocketOutputStream:

Public Member Functions

- **SocketOutputStream** (**Socket::SocketHandle** socket)
Constructor.
- virtual **~SocketOutputStream** ()
- virtual void **write** (unsigned char c) throw (io::IOException)
Writes a single byte to the output stream.
- virtual void **write** (const std::vector< unsigned char > &buffer) throw (io::IOException)
Writes an array of bytes to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset, std::size_t len) throw (io::IOException, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **flush** () throw (io::IOException)
Flush - does nothing.
- virtual void **close** () throw (lang::Exception)
Close - does nothing.
- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.508.1 Detailed Description

Output stream for performing write operations on a socket.

6.508.2 Constructor & Destructor Documentation

6.508.2.1 decaf::net::SocketOutputStream::SocketOutputStream (Socket::SocketHandle *socket*)

Constructor.

Parameters:

socket the socket handle.

6.508.2.2 virtual decaf::net::SocketOutputStream::~~SocketOutputStream () [virtual]

6.508.3 Member Function Documentation

6.508.3.1 virtual void decaf::net::SocketOutputStream::close () throw (lang::Exception) [virtual]

Close - does nothing. It is the responsibility of the owner of the socket object to close it.

Exceptions:

CMSException

Implements **decaf::io::Closeable** (p. 840).

6.508.3.2 virtual void decaf::net::SocketOutputStream::flush () throw (io::IOException) [inline, virtual]

Flush - does nothing.

Exceptions:

IOException

Implements **decaf::io::OutputStream** (p. 1992).

6.508.3.3 virtual void decaf::net::SocketOutputStream::lock () throw (lang::Exception) [inline, virtual]

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.508.3.4 `virtual void decaf::net::SocketOutputStream::notify () throw (lang::Exception) [inline, virtual]`

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2510).

6.508.3.5 `virtual void decaf::net::SocketOutputStream::notifyAll () throw (lang::Exception) [inline, virtual]`

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2511).

6.508.3.6 `virtual void decaf::net::SocketOutputStream::unlock () throw (lang::Exception) [inline, virtual]`

Unlocks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2512).

6.508.3.7 `virtual void decaf::net::SocketOutputStream::wait (unsigned long millisecs) throw (lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

millisecs the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2513).

6.508.3.8 virtual void decaf::net::SocketOutputStream::wait () throw (lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

6.508.3.9 virtual void decaf::net::SocketOutputStream::write (const unsigned char * *buffer*, std::size_t *offset*, std::size_t *len*) throw (io::IOException, lang::exceptions::NullPointerException) [virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The array of bytes to write.

offset the position to start writing in buffer.

len The number of bytes from the buffer to be written.

Exceptions:

IOException thrown if an error occurs.

NullPointerException thrown if buffer is Null.

Implements **decaf::io::OutputStream** (p. 1993).

6.508.3.10 virtual void decaf::net::SocketOutputStream::write (const std::vector< unsigned char > & *buffer*) throw (io::IOException) [virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The bytes to write.

Exceptions:

IOException thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

6.508.3.11 virtual void decaf::net::SocketOutputStream::write (unsigned char *c*) throw (io::IOException) [virtual]

Writes a single byte to the output stream.

Parameters:

c the byte.

Exceptions:

IOException thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

The documentation for this class was generated from the following file:

- `src/main/decaf/net/SocketOutputStream.h`

6.509 decaf::net::SocketTimeoutException Class Reference

#include <src/main/decaf/net/SocketTimeoutException.h> Inheritance diagram for decaf::net::SocketTimeoutException:

Public Member Functions

- **SocketTimeoutException** () throw ()
Default Constructor.
- **SocketTimeoutException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **SocketTimeoutException** (const **SocketTimeoutException** &ex) throw ()
Copy Constructor.
- **SocketTimeoutException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **SocketTimeoutException** (const std::exception *cause) throw ()
Constructor.
- **SocketTimeoutException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **SocketTimeoutException** * **clone** () const
Clones this exception.
- virtual ~**SocketTimeoutException** () throw ()

6.509.1 Constructor & Destructor Documentation

6.509.1.1 decaf::net::SocketTimeoutException::SocketTimeoutException () throw () [inline]

Default Constructor.

6.509.1.2 decaf::net::SocketTimeoutException::SocketTimeoutException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.509.1.3 `decaf::net::SocketTimeoutException::SocketTimeoutException (const SocketTimeoutException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

References `decaf::lang::Exception::Exception()`.

6.509.1.4 `decaf::net::SocketTimeoutException::SocketTimeoutException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.509.1.5 `decaf::net::SocketTimeoutException::SocketTimeoutException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.509.1.6 `decaf::net::SocketTimeoutException::SocketTimeoutException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.509.1.7 virtual decaf::net::SocketTimeoutException::~~SocketTimeoutException
() throw () [inline, virtual]

6.509.2 Member Function Documentation

6.509.2.1 virtual SocketTimeoutException* decaf::net::SocketTimeoutException::clone () const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::io::InterruptedIOException** (p. 1464).

The documentation for this class was generated from the following file:

- src/main/decaf/net/**SocketTimeoutException.h**

6.510 activemq::commands::BrokerError::StackTraceElement Struct Reference

```
#include <src/main/activemq/commands/BrokerError.h>
```

Data Fields

- `std::string` **ClassName**
- `std::string` **FileName**
- `std::string` **MethodName**
- `int` **LineNumber**

6.510.1 Field Documentation

6.510.1.1 `std::string` `activemq::commands::BrokerError::StackTraceElement::ClassName`

6.510.1.2 `std::string` `activemq::commands::BrokerError::StackTraceElement::FileName`

6.510.1.3 `int` `activemq::commands::BrokerError::StackTraceElement::LineNumber`

6.510.1.4 `std::string` `activemq::commands::BrokerError::StackTraceElement::MethodName`

The documentation for this struct was generated from the following file:

- `src/main/activemq/commands/BrokerError.h`

6.511 decaf::internal::io::StandardErrorOutputStream Class Reference

Wrapper Around the Standard error Output facility on the current platform.

#include <src/main/decaf/internal/io/StandardErrorOutputStream.h> Inheritance diagram for decaf::internal::io::StandardErrorOutputStream:

Public Member Functions

- **StandardErrorOutputStream** ()
Default Constructor.
- virtual **~StandardErrorOutputStream** ()
- virtual void **write** (unsigned char c) throw (decaf::io::IOException)
Writes a single byte to the output stream.
- virtual void **write** (const std::vector< unsigned char > &buffer) throw (decaf::io::IOException)
Writes an array of bytes to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset, std::size_t len) throw (decaf::io::IOException, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **flush** () throw (decaf::io::IOException)
Invokes flush on the target output stream.
- virtual void **close** () throw (decaf::lang::Exception)
Invokes close on the target output stream.
- virtual void **lock** () throw (decaf::lang::Exception)
Locks the object.
- virtual void **wait** () throw (decaf::lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (decaf::lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (decaf::lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (decaf::lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.511.1 Detailed Description

Wrapper Around the Standard error Output facility on the current platform. This allows for the use of alternate output methods on platforms or compilers that do not support `std::cerr`.

6.511.2 Constructor & Destructor Documentation

6.511.2.1 `decaf::internal::io::StandardErrorOutputStream::StandardErrorOutputStream()`

Default Constructor.

6.511.2.2 `virtual decaf::internal::io::StandardErrorOutputStream::~~StandardErrorOutputStream()` [virtual]

6.511.3 Member Function Documentation

6.511.3.1 `virtual void decaf::internal::io::StandardErrorOutputStream::close()` `throw (decaf::lang::Exception)` [inline, virtual]

Invokes close on the target output stream. throws CMSException if an error occurs

Implements `decaf::io::Closeable` (p. 840).

6.511.3.2 `virtual void decaf::internal::io::StandardErrorOutputStream::flush()` `throw (decaf::io::IOException)` [virtual]

Invokes flush on the target output stream. throws `decaf::io::IOException` (p. 1477) if an error occurs

Implements `decaf::io::OutputStream` (p. 1992).

6.511.3.3 `virtual void decaf::internal::io::StandardErrorOutputStream::lock()` `throw (decaf::lang::Exception)` [inline, virtual]

Locks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2508).

6.511.3.4 `virtual void decaf::internal::io::StandardErrorOutputStream::notify()` `throw (decaf::lang::Exception)` [inline, virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.511.3.5 **virtual void decaf::internal::io::StandardErrorOutputStream::notifyAll ()**
throw (decaf::lang::Exception) [inline, virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.511.3.6 **virtual void decaf::internal::io::StandardErrorOutputStream::wait**
(unsigned long *millisecs*) throw (decaf::lang::Exception) [inline,
virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

millisecs the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.511.3.7 **virtual void decaf::internal::io::StandardErrorOutputStream::wait ()**
throw (decaf::lang::Exception) [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

6.511.3.8 **virtual void decaf::internal::io::StandardErrorOutputStream::write**
(const unsigned char * *buffer*, std::size_t *offset*, std::size_t *len*)
throw (decaf::io::IOException, lang::exceptions::NullPointerException)
[virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The array of bytes to write.

offset The position to start writing in buffer.

len The number of bytes from the buffer to be written.

Exceptions:

decaf::io::IOException (p. 1477) thrown if an error occurs.

NullPointerException if buffer is null.

Implements **decaf::io::OutputStream** (p. 1993).

6.511.3.9 `virtual void decaf::internal::io::StandardErrorOutputStream::write (const std::vector< unsigned char > & buffer) throw (decaf::io::IOException) [virtual]`

Writes an array of bytes to the output stream.

Parameters:

buffer The bytes to write.

Exceptions:

IOException thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

6.511.3.10 `virtual void decaf::internal::io::StandardErrorOutputStream::write (unsigned char c) throw (decaf::io::IOException) [virtual]`

Writes a single byte to the output stream.

Parameters:

c the byte.

Exceptions:

IOException thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/io/StandardErrorOutputStream.h`

6.512 decaf::internal::io::StandardInputStream Class Reference

#include <src/main/decaf/internal/io/StandardInputStream.h> Inheritance diagram for decaf::internal::io::StandardInputStream:

Public Member Functions

- **StandardInputStream** ()
- virtual **~StandardInputStream** ()
- virtual std::size_t **available** () const throw (decaf::io::IOException)
Indicates the number of bytes available.
- virtual unsigned char **read** () throw (decaf::io::IOException)
Reads a single byte from the buffer.
- virtual int **read** (unsigned char *buffer, std::size_t offset, std::size_t bufferSize) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)
Reads an array of bytes from the buffer.
- virtual void **close** () throw (lang::Exception)
Closes the target input stream.
- virtual std::size_t **skip** (std::size_t num) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Skips over and discards n bytes of data from this input stream.
- virtual void **mark** (int readLimit DECAF_UNUSED)
Marks the current position in the stream A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes.
- virtual void **reset** () throw (decaf::io::IOException)
Repositions this stream to the position at the time the mark method was last called on this input stream.
- virtual bool **markSupported** () const
Determines if this input stream supports the mark and reset methods.

Protected Member Functions

- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.

- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.512.1 Constructor & Destructor Documentation

6.512.1.1 decaf::internal::io::StandardInputStream::StandardInputStream ()

6.512.1.2 virtual decaf::internal::io::StandardInputStream::~~StandardInputStream () [virtual]

6.512.2 Member Function Documentation

6.512.2.1 virtual std::size_t decaf::internal::io::StandardInputStream::available () const throw (decaf::io::IOException) [virtual]

Indicates the number of bytes available.

Returns:

The number of bytes until the end of the **internal** (p. 95) buffer.

Implements **decaf::io::InputStream** (p. 1407).

6.512.2.2 virtual void decaf::internal::io::StandardInputStream::close () throw (lang::Exception) [inline, virtual]

Closes the target input stream.

Exceptions:

decaf::io::IOException (p. 1477) thrown if an error occurs.

Implements **decaf::io::Closeable** (p. 840).

6.512.2.3 virtual void decaf::internal::io::StandardInputStream::lock () throw (lang::Exception) [inline, protected, virtual]

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.512.2.4 virtual void decaf::internal::io::StandardInputStream::mark (int readLimit *DECAF_UNUSED*) [inline, virtual]

Marks the current position in the stream. A subsequent call to the reset method repositions this stream at the last marked position so that subsequent reads re-read the same bytes. If a stream instance reports that marks are supported then the stream will ensure that the same bytes can be read again after the reset method is called so long the readLimit is not reached.

Parameters:

readLimit - max bytes read before marked position is invalid.

Implements **decaf::io::InputStream** (p. 1407).

6.512.2.5 virtual bool decaf::internal::io::StandardInputStream::markSupported () const [inline, virtual]

Determines if this input stream supports the mark and reset methods. Whether or not mark and reset are supported is an invariant property of a particular input stream instance.

Returns:

true if this stream instance supports marks

Implements **decaf::io::InputStream** (p. 1407).

6.512.2.6 virtual void decaf::internal::io::StandardInputStream::notify () throw (lang::Exception) [inline, protected, virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.512.2.7 virtual void decaf::internal::io::StandardInputStream::notifyAll () throw (lang::Exception) [inline, protected, virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.512.2.8 `virtual int decaf::internal::io::StandardInputStream::read (unsigned char * buffer, std::size_t offset, std::size_t bufferSize) throw (decaf::io::IOException, decaf::lang::exceptions::NullPointerException)` [virtual]

Reads an array of bytes from the buffer.

Parameters:

buffer (out) the target buffer.

offset the position in the buffer to start reading from.

bufferSize the size of the output buffer.

Returns:

The number of bytes read.

Exceptions:

decaf::io::IOException (p. 1477) thrown if an error occurs.

decaf::lang::exceptions::NullPointerException (p. 1951) if buffer is null.

Implements **decaf::io::InputStream** (p. 1408).

6.512.2.9 `virtual unsigned char decaf::internal::io::StandardInputStream::read () throw (decaf::io::IOException)` [virtual]

Reads a single byte from the buffer.

Returns:

The next byte.

Exceptions:

IOException thrown if an error occurs.

Implements **decaf::io::InputStream** (p. 1408).

6.512.2.10 `virtual void decaf::internal::io::StandardInputStream::reset () throw (decaf::io::IOException)` [virtual]

Repositions this stream to the position at the time the mark method was last called on this input stream. If the method markSupported returns true, then: * If the method mark has not been called since the stream was created, or the number of bytes read from the stream since mark was last called is larger than the argument to mark at that last call, then an IOException might be thrown. * If such an IOException is not thrown, then the stream is reset to a state such that all the bytes read since the most recent call to mark (or since the start of the file, if mark has not been called) will be resupplied to subsequent callers of the read method, followed by any bytes that otherwise would have been the next input data as of the time of the call to reset. If the method markSupported returns false, then: * The call to reset may throw an IOException. * If an IOException is not thrown, then the stream is reset to a fixed state that depends on the particular type of the input stream and how it was created. The bytes that will be supplied to subsequent callers of the read method depend on the particular type of the input stream.

Exceptions:*IOException*Implements **decaf::io::InputStream** (p. 1408).

6.512.2.11 `virtual std::size_t decaf::internal::io::StandardInputStream::skip (std::size_t num) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

Skips over and discards *n* bytes of data from this input stream. The skip method may, for a variety of reasons, end up skipping over some smaller number of bytes, possibly 0. This may result from any of a number of conditions; reaching end of file before *n* bytes have been skipped is only one possibility. The actual number of bytes skipped is returned. If *n* is negative, no bytes are skipped.

The skip method of `InputStream` creates a byte array and then repeatedly reads into it until *n* bytes have been read or the end of the stream has been reached. Subclasses are encouraged to provide a more efficient implementation of this method.

Parameters:*num* - the number of bytes to skip**Returns:**

total bytes skipped

Exceptions:*decaf::io::IOException* (p. 1477) if an error occurs*decaf::lang::exceptions::UnsupportedOperationException* (p. 2635) If skip is not supported.Implements **decaf::io::InputStream** (p. 1409).

6.512.2.12 `virtual void decaf::internal::io::StandardInputStream::unlock () throw (lang::Exception) [inline, protected, virtual]`

Unlocks the object.

Exceptions:*Exception*Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

6.512.2.13 `virtual void decaf::internal::io::StandardInputStream::wait (unsigned long milliseconds) throw (lang::Exception) [inline, protected, virtual]`

Waits on a signal from this object, which is generated by a call to `Notify`. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:*milliseconds* the time in milliseconds to wait, or `WAIT_INFINITE`

Exceptions:***Exception***

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.512.2.14 **virtual void decaf::internal::io::StandardInputStream::wait () throw (lang::Exception)** [inline, protected, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:***Exception***

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

The documentation for this class was generated from the following file:

- src/main/decaf/internal/io/**StandardInputStream.h**

6.513 decaf::internal::io::StandardOutputStream Class Reference

#include <src/main/decaf/internal/io/StandardOutputStream.h> Inheritance diagram for decaf::internal::io::StandardOutputStream:

Public Member Functions

- **StandardOutputStream** ()
- virtual **~StandardOutputStream** ()
- virtual void **write** (unsigned char c) throw (decaf::io::IOException)
Writes a single byte to the output stream.
- virtual void **write** (const std::vector< unsigned char > &buffer) throw (decaf::io::IOException)
Writes an array of bytes to the output stream.
- virtual void **write** (const unsigned char *buffer, std::size_t offset, std::size_t len) throw (decaf::io::IOException, lang::exceptions::NullPointerException)
Writes an array of bytes to the output stream.
- virtual void **flush** () throw (decaf::io::IOException)
Invokes flush on the target output stream.
- virtual void **close** () throw (decaf::lang::Exception)
Invokes close on the target output stream.
- virtual void **lock** () throw (decaf::lang::Exception)
Locks the object.
- virtual void **unlock** () throw (decaf::lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (decaf::lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (decaf::lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (decaf::lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (decaf::lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.513.1 Constructor & Destructor Documentation

6.513.1.1 `decaf::internal::io::StandardOutputStream::StandardOutputStream ()`

6.513.1.2 `virtual`
`decaf::internal::io::StandardOutputStream::~~StandardOutputStream ()`
`[virtual]`

6.513.2 Member Function Documentation

6.513.2.1 `virtual void decaf::internal::io::StandardOutputStream::close () throw (`
`decaf::lang::Exception) [inline, virtual]`

Invokes close on the target output stream. throws CMSException if an error occurs

Implements `decaf::io::Closeable` (p. 840).

6.513.2.2 `virtual void decaf::internal::io::StandardOutputStream::flush () throw (`
`decaf::io::IOException) [virtual]`

Invokes flush on the target output stream. throws `decaf::io::IOException` (p. 1477) if an error occurs

Implements `decaf::io::OutputStream` (p. 1992).

6.513.2.3 `virtual void decaf::internal::io::StandardOutputStream::lock () throw (`
`decaf::lang::Exception) [inline, virtual]`

Locks the object.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2508).

6.513.2.4 `virtual void decaf::internal::io::StandardOutputStream::notify () throw (`
`decaf::lang::Exception) [inline, virtual]`

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements `decaf::util::concurrent::Synchronizable` (p. 2510).

6.513.2.5 `virtual void decaf::internal::io::StandardOutputStream::notifyAll ()`
`throw (decaf::lang::Exception) [inline, virtual]`

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.513.2.6 `virtual void decaf::internal::io::StandardOutputStream::unlock () throw (decaf::lang::Exception)` [inline, virtual]

Unlocks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

6.513.2.7 `virtual void decaf::internal::io::StandardOutputStream::wait (unsigned long milliseconds) throw (decaf::lang::Exception)` [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.513.2.8 `virtual void decaf::internal::io::StandardOutputStream::wait () throw (decaf::lang::Exception)` [inline, virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

6.513.2.9 `virtual void decaf::internal::io::StandardOutputStream::write (const unsigned char * buffer, std::size_t offset, std::size_t len) throw (decaf::io::IOException, lang::exceptions::NullPointerException)` [virtual]

Writes an array of bytes to the output stream.

Parameters:

buffer The array of bytes to write.

offset, the position to start writing in buffer.

len The number of bytes from the buffer to be written.

Exceptions:

decaf::io::IOException (p. 1477) thrown if an error occurs.

NullPointerException if buffer is null.

Implements **decaf::io::OutputStream** (p. 1993).

6.513.2.10 `virtual void decaf::internal::io::StandardOutputStream::write (const
std::vector< unsigned char > & buffer) throw (decaf::io::IOException)
[virtual]`

Writes an array of bytes to the output stream.

Parameters:

buffer The bytes to write.

Exceptions:

IOException thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

6.513.2.11 `virtual void decaf::internal::io::StandardOutputStream::write (unsigned
char c) throw (decaf::io::IOException) [virtual]`

Writes a single byte to the output stream.

Parameters:

c the byte.

Exceptions:

IOException thrown if an error occurs.

Implements **decaf::io::OutputStream** (p. 1993).

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/io/StandardOutputStream.h`

6.514 cms::Startable Class Reference

Interface for a class that implements the start method.

#include <src/main/cms/Startable.h> Inheritance diagram for cms::Startable:

Public Member Functions

- virtual `~Startable()`
- virtual void `start()` throw (CMSEException)
Starts the service.

6.514.1 Detailed Description

Interface for a class that implements the start method. An object that implements the **Startable** (p.2413) interface implies that until its start method is called it will be considered to be in a closed or stopped state and will throw an Exception to indicate that it is not in an started state if one of its methods is called.

Since:

1.0

6.514.2 Constructor & Destructor Documentation

6.514.2.1 virtual cms::Startable::~~Startable() [inline, virtual]

6.514.3 Member Function Documentation

6.514.3.1 virtual void cms::Startable::start() throw (CMSEException) [pure virtual]

Starts the service.

Exceptions:

CMSEException (p. 850) if an internal error occurs while starting.

Implemented in `activemq::core::ActiveMQConnection` (p. 198), `activemq::transport::correlator::ResponseCorrelator` (p. 2240), `activemq::transport::failover::FailoverTransport` (p. 1307), `activemq::transport::IOTransport` (p. 1485), `activemq::transport::mock::MockTransport` (p. 1917), `activemq::transport::TransportFilter` (p. 2622), and `activemq::wireformat::openwire::OpenWireFormatNegotiator` (p. 1987).

The documentation for this class was generated from the following file:

- `src/main/cms/Startable.h`

6.515 decaf::lang::STATIC_CAST_TOKEN Struct Reference

```
#include <src/main/decaf/lang/Pointer.h>
```

The documentation for this struct was generated from the following file:

- `src/main/decaf/lang/Pointer.h`

6.516 activemq::core::ActiveMQConstants::StaticInitializer Class Reference

```
#include <src/main/activemq/core/ActiveMQConstants.h>
```

Public Member Functions

- **StaticInitializer** ()
- virtual **~StaticInitializer** ()

Static Public Attributes

- static std::string **destOptions** [NUM_OPTIONS]
- static std::string **uriParams** [NUM_PARAMS]
- static std::map< std::string, **DestinationOption** > **destOptionMap**
- static std::map< std::string, **URIParam** > **uriParamsMap**

6.516.1 Constructor & Destructor Documentation

6.516.1.1 **activemq::core::ActiveMQConstants::StaticInitializer::StaticInitializer** ()

6.516.1.2 virtual
activemq::core::ActiveMQConstants::StaticInitializer::~~StaticInitializer
() [inline, virtual]

6.516.2 Field Documentation

6.516.2.1 std::map<std::string, **DestinationOption**> **activemq::core::ActiveMQConstants::StaticInitializer::destOptionMap**
[static]

6.516.2.2 std::string
activemq::core::ActiveMQConstants::StaticInitializer::destOptions[NUM_OPTIONS] [static]

6.516.2.3 std::string
activemq::core::ActiveMQConstants::StaticInitializer::uriParams[NUM_PARAMS] [static]

6.516.2.4 std::map<std::string, **URIParam**> **activemq::core::ActiveMQConstants::StaticInitializer::uriParamsMap**
[static]

The documentation for this class was generated from the following file:

- src/main/activemq/core/**ActiveMQConstants.h**

6.517 decaf::util::StlList< E > Class Template Reference

List (p.1591) class that wraps the STL list object to provide a simpler interface and additional methods not provided by the STL type.

#include <src/main/decaf/util/StlList.h>Inheritance diagram for decaf::util::StlList< E >:

Data Structures

- class **ConstStlListIterator**
- class **StlListIterator**

Public Member Functions

- **StlList** ()
Default constructor - does nothing.
- **StlList** (const **StlList** &source)
Copy constructor - copies the content of the given set into this one.
- **StlList** (const **Collection**< E > &source)
Copy constructor - copies the content of the given set into this one.
- virtual ~**StlList** ()
- virtual bool **equals** (const **StlList** &source) const
Compares the passed collection to this one, if they contain the same elements, i.e. all their elements are equivalent, then it returns true.
Returns:
true if the Collections contain the same elements.
- virtual **Iterator**< E > * **iterator** ()
Returns:
an iterator over a set of elements of type T.
- virtual **Iterator**< E > * **iterator** () const
- virtual **ListIterator**< E > * **listIterator** ()
Returns:
a list iterator over the elements in this list (in proper sequence).
- virtual **ListIterator**< E > * **listIterator** () const
- virtual **ListIterator**< E > * **listIterator** (std::size_t index) throw (decaf::lang::exceptions::IndexOutOfBoundsException)
Parameters:
index index of first element to be returned from the list iterator (by a call to the next method).

Returns:

a list iterator of the elements in this list (in proper sequence), starting at the specified position in this list. The specified index indicates the first element that would be returned by an initial call to next. An initial call to previous would return the element with the specified index minus one.

Exceptions:

IndexOutOfBoundsException if the index is out of range ($\text{index} < 0 \parallel \text{index} > \text{size}()$ (p. 878))

- virtual **ListIterator**< E > * **listIterator** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)
- virtual void **copy** (const **StlList** &source)

- virtual void **clear** () throw (lang::exceptions::UnsupportedOperationException)

Removes all of the elements from this collection (optional operation).

The collection will be empty after this method returns.

This implementation iterates over this collection, removing each element using the **Iterator.remove** (p. 1490) operation. Most implementations will probably choose to override this method for efficiency.

Note that this implementation will throw an **UnsupportedOperationException** if the iterator returned by this collection's iterator method does not implement the remove method and this collection is non-empty.

Exceptions:

UnsupportedOperationException if the clear operation is not supported by this collection

- virtual bool **contains** (const E &value) const throw (lang::Exception)

Returns true if this collection contains the specified element.

This implementation iterates over the elements in the collection, checking each element in turn for equality with the specified element.

Parameters:

value - the value whose presence is to be queried for in this **Collection** (p. 871).

Returns:

true if the value is contained in this collection

Exceptions:

Exception if an error occurs,

- virtual std::size_t **indexOf** (const E &value) throw (decaf::lang::exceptions::NoSuchElementException)

Returns the index of the first occurrence of the specified element in this list, or -1 if this list does not contain the element.

More formally, returns the lowest index i such that $\text{get}(i) == \text{value}$, or -1 if there is no such index.

Parameters:

value - element to search for

Returns:

the index of the first occurrence of the specified element in this list,

Exceptions:

NoSuchElementException if value is not in the list

- virtual std::size_t **lastIndexOf** (const E &value) throw (decaf::lang::exceptions::NoSuchElementException)

Returns the index of the last occurrence of the specified element in this list, or -1 if this list does not contain the element.

More formally, returns the highest index i such that $get(i) == value$ or -1 if there is no such index.

Parameters:

value - element to search for

Returns:

the index of the last occurrence of the specified element in this list.

Exceptions:

NoSuchElementException if value is not in the list

- virtual bool **isEmpty** () const

Returns true if this collection contains no elements.

This implementation returns `size()` (p. 878) == 0.

Returns:

true if the size method return 0.

- virtual std::size_t **size** () const

Returns the number of elements in this collection.

If this collection contains more than Integer.MAX_VALUE elements, returns Integer.MAX_VALUE.

Returns:

the number of elements in this collection

- virtual E **get** (std::size_t index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Gets the element contained at position passed.

Parameters:

index - position to get

Returns:

value at index

- virtual E **set** (std::size_t index, const E &element) throw (decaf::lang::exceptions::IndexOutOfBoundsException)

Replaces the element at the specified position in this list with the specified element.

Parameters:

index - index of the element to replace

element - element to be stored at the specified position

Returns:

the element previously at the specified position

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

- virtual bool **add** (const E &value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException)

Returns true if this collection changed as a result of the call.

(Returns false if this collection does not permit duplicates and already contains the specified element.)

Collections that support this operation may place limitations on what elements may be added to this collection. In particular, some collections will refuse to add null elements, and others will impose restrictions on the type of elements that may be added. **Collection** (p. 871) classes should clearly specify in their documentation any restrictions on what elements may be added.

If a collection refuses to add a particular element for any reason other than that it already contains the element, it must throw an exception (rather than returning false). This preserves the invariant that a collection always contains the specified element after this call returns.

For non-pointer values, i.e. class instances or string's the object will be copied into the collection, thus the object must support being copied, must not hide the copy constructor and assignment operator.

Parameters:

value - reference to the element to add.

Returns:

true if the element was added

Exceptions:

UnsupportedOperationException

IllegalArgumentException

IllegalStateException if the element cannot be added at this time due to insertion restrictions

- virtual void **add** (std::size_t index, const E &element) throw (decaf::lang::exceptions::UnsupportedOperationException, lang::exceptions::IndexOutOfBoundsException)

Inserts the specified element at the specified position in this list.

Shifts the element currently at that position (if any) and any subsequent elements to the right (adds one to their indices).

Parameters:

index - index at which the specified element is to be inserted

element - element to be inserted

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

- virtual bool **addAll** (std::size_t index, const **Collection**< E > &source) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException)

Inserts all of the elements in the specified collection into this list at the specified position (optional operation).

Shifts the element currently at that position (if any) and any subsequent elements to the right (increases their indices). The new elements will appear in this list in the order that they are returned by the specified collection's iterator. The behavior of this operation is undefined if the specified collection is modified while the operation is in progress. (Note that this will occur if the specified collection is this list, and it's nonempty.)

Parameters:

index The index at which to insert the first element from the specified collection

source The **Collection** (p. 871) containing elements to be added to this list

Returns:

true if this list changed as a result of the call

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

- virtual bool **remove** (const E &value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)

Removes a single instance of the specified element from this collection, if it is present (optional operation).

*More formally, removes the first element *e* such that *e* == *o*, if this collection contains one or more such elements. Returns true if this collection contained the specified element (or equivalently, if this collection changed as a result of the call).*

This implementation iterates over the collection looking for the specified element. If it finds the element, it removes the element from the collection using the iterator's remove method.

Note that this implementation throws an `UnsupportedOperationException` if the iterator returned by this collection's iterator method does not implement the remove method and this collection contains the specified object.

Parameters:

value - element to be removed from this collection, if present

Returns:

true if an element was removed as a result of this call

Exceptions:

UnsupportedOperationException if the remove operation is not supported by this collection.

IllegalArgumentException If the value is not a valid entry for this **Collection** (p. 871).

- virtual E **remove** (std::size_t index) throw (decaf::lang::exceptions::UnsupportedOperationException, decaf::lang::exceptions::IndexOutOfBoundsException)

Removes the element at the specified position in this list.

Shifts any subsequent elements to the left (subtracts one from their indices). Returns the element that was removed from the list.

Parameters:

index - the index of the element to be removed

Returns:

the element previously at the specified position

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

6.517.1 Detailed Description

```
template<typename E> class decaf::util::StlList< E >
```

List (p. 1591) class that wraps the STL list object to provide a simpler interface and additional methods not provided by the STL type.

6.517.2 Constructor & Destructor Documentation

6.517.2.1 `template<typename E> decaf::util::StlList< E >::StlList () [inline]`

Default constructor - does nothing.

6.517.2.2 `template<typename E> decaf::util::StlList< E >::StlList (const StlList< E > & source) [inline]`

Copy constructor - copies the content of the given set into this one.

Parameters:

source The source set.

6.517.2.3 `template<typename E> decaf::util::StlList< E >::StlList (const Collection< E > & source) [inline]`

Copy constructor - copies the content of the given set into this one.

Parameters:

source The source set.

6.517.2.4 `template<typename E> virtual decaf::util::StlList< E >::~StlList () [inline, virtual]`

6.517.3 Member Function Documentation

6.517.3.1 `template<typename E> virtual void decaf::util::StlList< E >::add (std::size_t index, const E & element) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IndexOutOfBoundsException) [inline, virtual]`

Inserts the specified element at the specified position in this list.

Shifts the element currently at that position (if any) and any subsequent elements to the right (adds one to their indices).

Parameters:

index - index at which the specified element is to be inserted

element - element to be inserted

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

Implements `decaf::util::List< E >` (p. 1592).

6.517.3.2 `template<typename E> virtual bool decaf::util::StlList< E >::add (const E & value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException) [inline, virtual]`

Returns true if this collection changed as a result of the call.

(Returns false if this collection does not permit duplicates and already contains the specified element.)

Collections that support this operation may place limitations on what elements may be added to this collection. In particular, some collections will refuse to add null elements, and others will impose restrictions on the type of elements that may be added. **Collection** (p. 871) classes should clearly specify in their documentation any restrictions on what elements may be added.

If a collection refuses to add a particular element for any reason other than that it already contains the element, it must throw an exception (rather than returning false). This preserves the invariant that a collection always contains the specified element after this call returns.

For non-pointer values, i.e. class instances or string's the object will be copied into the collection, thus the object must support being copied, must not hide the copy constructor and assignment operator.

Parameters:

value - reference to the element to add.

Returns:

true if the element was added

Exceptions:

UnsupportedOperationException

IllegalArgumentException

IllegalStateException if the element cannot be added at this time due to insertion restrictions

Implements **decaf::util::Collection< E >** (p. 873).

Referenced by **decaf::util::StlList< Pointer< BackupTransport > >::addAll()**.

```
6.517.3.3  template<typename E> virtual bool decaf::util::StlList< E
>::addAll (std::size_t index, const Collection< E > & source)
throw ( decaf::lang::exceptions::UnsupportedOperationException,
decaf::lang::exceptions::IndexOutOfBoundsException ) [inline,
virtual]
```

Inserts all of the elements in the specified collection into this list at the specified position (optional operation).

Shifts the element currently at that position (if any) and any subsequent elements to the right (increases their indices). The new elements will appear in this list in the order that they are returned by the specified collection's iterator. The behavior of this operation is undefined if the specified collection is modified while the operation is in progress. (Note that this will occur if the specified collection is this list, and it's nonempty.)

Parameters:

index The index at which to insert the first element from the specified collection

source The **Collection** (p. 871) containing elements to be added to this list

Returns:

true if this list changed as a result of the call

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

Implements **decaf::util::List< E >** (p. 1592).

6.517.3.4 `template<typename E> virtual void decaf::util::StlList< E >::clear ()
throw (lang::exceptions::UnsupportedOperationException) [inline,
virtual]`

Removes all of the elements from this collection (optional operation).

The collection will be empty after this method returns.

This implementation iterates over this collection, removing each element using the **Iterator.remove** (p. 1490) operation. Most implementations will probably choose to override this method for efficiency.

Note that this implementation will throw an `UnsupportedOperationException` if the iterator returned by this collection's iterator method does not implement the remove method and this collection is non-empty.

Exceptions:

UnsupportedOperationException if the clear operation is not supported by this collection

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 127).

6.517.3.5 `template<typename E> virtual bool decaf::util::StlList< E >::contains
(const E & value) const throw (lang::Exception) [inline, virtual]`

Returns true if this collection contains the specified element.

This implementation iterates over the elements in the collection, checking each element in turn for equality with the specified element.

Parameters:

value - the value whose presence is to be queried for in this **Collection** (p. 871).

Returns:

true if the value is contained in this collection

Exceptions:

Exception if an error occurs,

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 127).

6.517.3.6 `template<typename E> virtual void decaf::util::StlList< E >::copy (const
StlList< E > & source) [inline, virtual]`

Referenced by `decaf::util::StlList< Pointer< BackupTransport > >::StlList()`.

6.517.3.7 `template<typename E> virtual bool decaf::util::StlList< E >::equals
(const StlList< E > & source) const [inline, virtual]`

Compares the passed collection to this one, if they contain the same elements, i.e. all their elements are equivalent, then it returns true.

Returns:

true if the Collections contain the same elements.

Implements **decaf::util::Collection< E >** (p. 875).

6.517.3.8 `template<typename E> virtual E decaf::util::StlList< E >::get (std::size_t
index) const throw (decaf::lang::exceptions::IndexOutOfBoundsException
) [inline, virtual]`

Gets the element contained at position passed.

Parameters:

index - position to get

Returns:

value at index

Implements **decaf::util::List< E >** (p. 1593).

6.517.3.9 `template<typename E> virtual std::size_t decaf::util::StlList<
E >::indexOf (const E & value) throw (de-
caf::lang::exceptions::NoSuchElementException) [inline,
virtual]`

Returns the index of the first occurrence of the specified element in this list, or -1 if this list does not contain the element.

More formally, returns the lowest index *i* such that `get(i) == value`, or -1 if there is no such index.

Parameters:

value - element to search for

Returns:

the index of the first occurrence of the specified element in this list,

Exceptions:

NoSuchElementException if value is not in the list

Implements **decaf::util::List< E >** (p. 1593).

6.517.3.10 `template<typename E> virtual bool decaf::util::StlList< E >::isEmpty
() const [inline, virtual]`

Returns true if this collection contains no elements.

This implementation returns `size() (p. 878) == 0`.

Returns:

true if the size method return 0.

Reimplemented from `decaf::util::AbstractCollection< E >` (p. 129).

6.517.3.11 `template<typename E> virtual Iterator<E>* decaf::util::StlList< E
>::iterator () const [inline, virtual]`

Implements `decaf::lang::Iterable< E >` (p. 1487).

6.517.3.12 `template<typename E> virtual Iterator<E>* decaf::util::StlList< E
>::iterator () [inline, virtual]`

Returns:

an iterator over a set of elements of type T.

Implements `decaf::lang::Iterable< E >` (p. 1487).

6.517.3.13 `template<typename E> virtual std::size_t decaf::util::StlList<
E >::lastIndexOf (const E & value) throw (
decaf::lang::exceptions::NoSuchElementException) [inline, virtual]`

Returns the index of the last occurrence of the specified element in this list, or -1 if this list does not contain the element.

More formally, returns the highest index i such that `get(i) == value` or -1 if there is no such index.

Parameters:

value - element to search for

Returns:

the index of the last occurrence of the specified element in this list.

Exceptions:

NoSuchElementException if value is not in the list

Implements `decaf::util::List< E >` (p. 1594).

6.517.3.14 `template<typename E> virtual ListIterator<E>* decaf::util::StlList<
E >::listIterator (std::size_t index) const throw (
decaf::lang::exceptions::IndexOutOfBoundsException) [inline,
virtual]`

Implements `decaf::util::List< E >` (p. 1594).

6.517.3.15 `template<typename E> virtual ListIterator<E>*
decaf::util::StlList< E >::listIterator (std::size_t index) throw (
decaf::lang::exceptions::IndexOutOfBoundsException) [inline,
virtual]`

Parameters:

index index of first element to be returned from the list iterator (by a call to the next method).

Returns:

a list iterator of the elements in this list (in proper sequence), starting at the specified position in this list. The specified index indicates the first element that would be returned by an initial call to next. An initial call to previous would return the element with the specified index minus one.

Exceptions:

IndexOutOfBoundsException if the index is out of range (`index < 0 || index > size()` (p. 878))

Implements `decaf::util::List< E >` (p. 1595).

6.517.3.16 `template<typename E> virtual ListIterator<E>* decaf::util::StlList< E
>::listIterator () const [inline, virtual]`

Implements `decaf::util::List< E >` (p. 1595).

6.517.3.17 `template<typename E> virtual ListIterator<E>* decaf::util::StlList< E
>::listIterator () [inline, virtual]`

Returns:

a list iterator over the elements in this list (in proper sequence).

Implements `decaf::util::List< E >` (p. 1595).

6.517.3.18 `template<typename E> virtual E decaf::util::StlList<
E >::remove (std::size_t index) throw (de-
cafe::lang::exceptions::UnsupportedOperationException,
decaf::lang::exceptions::IndexOutOfBoundsException) [inline,
virtual]`

Removes the element at the specified position in this list.

Shifts any subsequent elements to the left (subtracts one from their indices). Returns the element that was removed from the list.

Parameters:

index - the index of the element to be removed

Returns:

the element previously at the specified position

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

UnsupportedOperationException - If the collection is non-modifiable.

Implements **decaf::util::List< E >** (p. 1596).

```
6.517.3.19  template<typename E> virtual bool decaf::util::StlList<
               E >::remove (const E & value) throw (
               lang::exceptions::UnsupportedOperationException,
               lang::exceptions::IllegalArgumentException ) [inline, virtual]
```

Removes a single instance of the specified element from this collection, if it is present (optional operation).

More formally, removes the first element *e* such that *e* == *o*, if this collection contains one or more such elements. Returns true if this collection contained the specified element (or equivalently, if this collection changed as a result of the call).

This implementation iterates over the collection looking for the specified element. If it finds the element, it removes the element from the collection using the iterator's remove method.

Note that this implementation throws an *UnsupportedOperationException* if the iterator returned by this collection's iterator method does not implement the remove method and this collection contains the specified object.

Parameters:

value - element to be removed from this collection, if present

Returns:

true if an element was removed as a result of this call

Exceptions:

UnsupportedOperationException if the remove operation is not supported by this collection.

IllegalArgumentException If the value is not a valid entry for this **Collection** (p. 871).

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 130).

```
6.517.3.20  template<typename E> virtual E decaf::util::StlList< E
               >::set (std::size_t index, const E & element) throw (
               decaf::lang::exceptions::IndexOutOfBoundsException ) [inline,
               virtual]
```

Replaces the element at the specified position in this list with the specified element.

Parameters:

index - index of the element to replace

element - element to be stored at the specified position

Returns:

the element previously at the specified position

Exceptions:

IndexOutOfBoundsException - if the index is greater than size

Implements **decaf::util::List**< E > (p. 1596).

6.517.3.21 `template<typename E> virtual std::size_t decaf::util::StlList< E >::size
() const [inline, virtual]`

Returns the number of elements in this collection.

If this collection contains more than Integer.MAX_VALUE elements, returns Integer.MAX_VALUE.

Returns:

the number of elements in this collection

Implements **decaf::util::Collection**< E > (p. 878).

Referenced by `decaf::util::StlList< Pointer< BackupTransport > >::add()`, `decaf::util::StlList< Pointer< BackupTransport > >::addAll()`, `decaf::util::StlList< Pointer< BackupTransport > >::get()`, `decaf::util::StlList< Pointer< BackupTransport > >::lastIndexOf()`, `decaf::util::StlList< Pointer< BackupTransport > >::listIterator()`, `decaf::util::StlList< Pointer< BackupTransport > >::remove()`, and `decaf::util::StlList< Pointer< BackupTransport > >::set()`.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/StlList.h`

6.518 decaf::util::StlMap< K, V, COMPARATOR > Class Template Reference

Map (p.1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map.

#include <src/main/decaf/util/StlMap.h> Inheritance diagram for decaf::util::StlMap< K, V, COMPARATOR >:

Public Member Functions

- **StlMap** ()
Default constructor - does nothing.
- **StlMap** (const **StlMap** &source)
Copy constructor - copies the content of the given map into this one.
- **StlMap** (const **Map**< K, V, COMPARATOR > &source)
Copy constructor - copies the content of the given map into this one.
- virtual ~**StlMap** ()
- virtual bool **equals** (const **StlMap** &source) const
Comparison, equality is dependent on the method of determining if the element are equal.
Parameters:
source - **Map** (p.1689) to compare to this one.
Returns:
*true if the **Map** (p.1689) passed is equal in value to this one.*
- virtual bool **equals** (const **Map**< K, V, COMPARATOR > &source) const
- virtual void **copy** (const **StlMap** &source)
Copies the content of the source map into this map.
Erases all existing data in this map.
Parameters:
source The source object to copy from.
- virtual void **copy** (const **Map**< K, V, COMPARATOR > &source)
- virtual void **clear** () throw (decaf::lang::exceptions::UnsupportedOperationException)
Removes all keys and values from this map.
Exceptions:
UnsupportedOperationException if this map is unmodifiable.
- virtual bool **containsKey** (const K &key) const
Indicates whether or this map contains a value for the given key.

Parameters:

key The key to look up.

Returns:

true if this map contains the value, otherwise false.

- virtual bool **containsValue** (const V &value) const

Indicates whether or this map contains a value for the given value, i.e. they are equal, this is done by operator== so the types must pass equivalence testing in this manner.

Parameters:

value The Value to look up.

Returns:

true if this map contains the value, otherwise false.

- virtual bool **isEmpty** () const

Returns:

*if the **Map** (p. 1689) contains any element or not, TRUE or FALSE*

- virtual std::size_t **size** () const

Returns:

The number of elements (key/value pairs) in this map.

- virtual V & **get** (const K &key) throw (lang::exceptions::NoSuchElementException)

*Gets the value mapped to the specified key in the **Map** (p. 1689).*

*If there is no element in the map whose key is equivalent to the key provided then a *NoSuchElementException* is thrown.*

Parameters:

key The search key.

Returns:

A reference to the value for the given key.

Exceptions:

***NoSuchElementException** if the key requests doesn't exist in the **Map** (p. 1689).*

- virtual const V & **get** (const K &key) const throw (lang::exceptions::NoSuchElementException)

*Gets the value mapped to the specified key in the **Map** (p. 1689).*

*If there is no element in the map whose key is equivalent to the key provided then a *NoSuchElementException* is thrown.*

Parameters:

key The search key.

Returns:

A {const} reference to the value for the given key.

Exceptions:

***NoSuchElementException** if the key requests doesn't exist in the **Map** (p. 1689).*

- virtual void **put** (const K &key, const V &value) throw (decaf::lang::exceptions::UnsupportedOperationException)

Sets the value for the specified key.

Parameters:

key The target key.
value The value to be set.

Exceptions:

UnsupportedOperationException if this map is unmodifiable.

- virtual void **putAll** (const **StlMap**< K, V, COMPARATOR > &other) throw (decaf::lang::exceptions::UnsupportedOperationException)

*Stores a copy of the Mappings contained in the other **Map** (p. 1689) in this one.*

Parameters:

other A **Map** (p. 1689) instance whose elements are to all be inserted in this **Map** (p. 1689).

Exceptions:

UnsupportedOperationException If the implementing class does not support the putAll operation.

- virtual void **putAll** (const **Map**< K, V, COMPARATOR > &other) throw (decaf::lang::exceptions::UnsupportedOperationException)

- virtual V **remove** (const K &key) throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException)

Removes the value (key/value pair) for the specified key from the map, returns a copy of the value that was mapped to the key.

Parameters:

key The search key.

Returns:

a copy of the element that was previously mapped to the given key

Exceptions:

NoSuchElementException if this key is not in the **Map** (p. 1689).
UnsupportedOperationException if this map is unmodifiable.

- virtual std::vector< K > **keySet** () const

*Returns a **Set** (p. 2320) view of the mappings contained in this map.*

*The set is backed by the map, so changes to the map are reflected in the set, and vice-versa. If the map is modified while an iteration over the set is in progress (except through the iterator's own remove operation, or through the setValue operation on a map entry returned by the iterator) the results of the iteration are undefined. The set supports element removal, which removes the corresponding mapping from the map, via the **Iterator.remove** (p. 1490), **Set.remove** (p. 130), **removeAll**, **retainAll** and **clear** operations. It does not support the **add** or **addAll** operations.*

Returns:

the entire set of keys in this map as a std::vector.

- virtual std::vector< V > **values** () const

Returns:

the entire set of values in this map as a std::vector.

- virtual void **lock** () throw (lang::Exception)

Locks the object.

- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.518.1 Detailed Description

```
template<typename K, typename V, typename COMPARATOR = std::less<K>>
class decaf::util::StlMap< K, V, COMPARATOR >
```

Map (p.1689) template that wraps around a std::map to provide a more user-friendly interface and to provide common functions that do not exist in std::map.

Since:

1.0

6.518.2 Constructor & Destructor Documentation

6.518.2.1 `template<typename K, typename V, typename COMPARATOR = std::less<K>> decaf::util::StlMap< K, V, COMPARATOR >::StlMap () [inline]`

Default constructor - does nothing.

6.518.2.2 `template<typename K, typename V, typename COMPARATOR = std::less<K>> decaf::util::StlMap< K, V, COMPARATOR >::StlMap (const StlMap< K, V, COMPARATOR > & source) [inline]`

Copy constructor - copies the content of the given map into this one.

Parameters:

source The source map.

6.518.2.3 `template<typename K, typename V, typename COMPARATOR = std::less<K>> decaf::util::StlMap< K, V, COMPARATOR >::StlMap (const Map< K, V, COMPARATOR > & source) [inline]`

Copy constructor - copies the content of the given map into this one.

Parameters:

source The source map.

6.518.2.4 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual decaf::util::StlMap< K, V, COMPARATOR >::~~StlMap () [inline, virtual]`

6.518.3 Member Function Documentation

6.518.3.1 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR >::clear () throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

Removes all keys and values from this map.

Exceptions:

UnsupportedOperationException if this map is unmodifiable.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p.1690).

Referenced by `decaf::util::StlMap< std::string, cms::Topic * >::copy()`.

6.518.3.2 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::StlMap< K, V, COMPARATOR >::containsKey (const K & key) const [inline, virtual]`

Indicates whether or this map contains a value for the given key.

Parameters:

key The key to look up.

Returns:

true if this map contains the value, otherwise false.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p.1691).

Referenced by `decaf::util::StlMap< std::string, cms::Topic * >::equals()`.

6.518.3.3 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::StlMap< K, V, COMPARATOR >::containsValue (const V & value) const [inline, virtual]`

Indicates whether or this map contains a value for the given value, i.e.

they are equal, this is done by operator== so the types must pass equivalence testing in this manner.

Parameters:

value The Value to look up.

Returns:

true if this map contains the value, otherwise false.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1692).

6.518.3.4 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR >::copy (const Map< K, V, COMPARATOR > & source) [inline, virtual]`

6.518.3.5 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR >::copy (const StlMap< K, V, COMPARATOR > & source) [inline, virtual]`

Copies the content of the source map into this map.

Erases all existing data in this map.

Parameters:

source The source object to copy from.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1693).

Referenced by `decaf::util::StlMap< std::string, cms::Topic * >::StlMap()`.

6.518.3.6 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::StlMap< K, V, COMPARATOR >::equals (const Map< K, V, COMPARATOR > & source) const [inline, virtual]`

6.518.3.7 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual bool decaf::util::StlMap< K, V, COMPARATOR >::equals (const StlMap< K, V, COMPARATOR > & source) const [inline, virtual]`

Comparison, equality is dependent on the method of determining if the element are equal.

Parameters:

source - `Map` (p. 1689) to compare to this one.

Returns:

true if the `Map` (p. 1689) passed is equal in value to this one.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1693).

6.518.3.8 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual const V& decaf::util::StlMap< K, V, COMPARATOR >::get (const K & key) const throw (lang::exceptions::NoSuchElementException) [inline, virtual]`

Gets the value mapped to the specified key in the `Map` (p. 1689).

If there is no element in the map whose key is equivalent to the key provided then a `NoSuchElementException` is thrown.

Parameters:

key The search key.

Returns:

A {const} reference to the value for the given key.

Exceptions:

NoSuchElementException if the key requests doesn't exist in the **Map** (p. 1689).

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1693).

```
6.518.3.9  template<typename K, typename V, typename COMPARATOR
           = std::less<K>> virtual V& decaf::util::StlMap< K,
           V, COMPARATOR >::get (const K & key) throw (
           lang::exceptions::NoSuchElementException ) [inline, virtual]
```

Gets the value mapped to the specified key in the **Map** (p. 1689).

If there is no element in the map whose key is equivalent to the key provided then a `NoSuchElementException` is thrown.

Parameters:

key The search key.

Returns:

A reference to the value for the given key.

Exceptions:

NoSuchElementException if the key requests doesn't exist in the **Map** (p. 1689).

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1694).

```
6.518.3.10 template<typename K, typename V, typename COMPARATOR =
           std::less<K>> virtual bool decaf::util::StlMap< K, V, COMPARATOR
           >::isEmpty () const [inline, virtual]
```

Returns:

if the **Map** (p. 1689) contains any element or not, TRUE or FALSE

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1695).

```
6.518.3.11 template<typename K, typename V, typename COMPARATOR =
           std::less<K>> virtual std::vector<K> decaf::util::StlMap< K, V,
           COMPARATOR >::keySet () const [inline, virtual]
```

Returns a **Set** (p. 2320) view of the mappings contained in this map.

The set is backed by the map, so changes to the map are reflected in the set, and vice-versa. If the map is modified while an iteration over the set is in progress (except through the iterator's own remove operation, or through the setValue operation on a map entry returned by the iterator) the results of the iteration are undefined. The set supports element removal, which removes the corresponding mapping from the map, via the **Iterator.remove** (p. 1490), **Set.remove** (p. 130), **removeAll**, **retainAll** and **clear** operations. It does not support the **add** or **addAll** operations.

Returns:

the entire set of keys in this map as a std::vector.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1696).

6.518.3.12 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR
>::lock () throw (lang::Exception) [inline, virtual]`

Locks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2508).

6.518.3.13 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR
>::notify () throw (lang::Exception) [inline, virtual]`

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.518.3.14 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR
>::notifyAll () throw (lang::Exception) [inline, virtual]`

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.518.3.15 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR >::put (const K & key, const V & value) throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

Sets the value for the specified key.

Parameters:

key The target key.

value The value to be set.

Exceptions:

UnsupportedOperationException if this map is unmodifiable.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1697).

Referenced by `decaf::util::StlMap< std::string, cms::Topic * >::putAll()`.

6.518.3.16 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR >::putAll (const Map< K, V, COMPARATOR > & other) throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

6.518.3.17 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR >::putAll (const StlMap< K, V, COMPARATOR > & other) throw (decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

Stores a copy of the Mappings contained in the other **Map** (p. 1689) in this one.

Parameters:

other A **Map** (p. 1689) instance whose elements are to all be inserted in this **Map** (p. 1689).

Exceptions:

UnsupportedOperationException If the implementing class does not support the putAll operation.

Implements `decaf::util::Map< K, V, COMPARATOR >` (p. 1697).

Referenced by `decaf::util::StlMap< std::string, cms::Topic * >::copy()`.

6.518.3.18 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual V decaf::util::StlMap< K, V, COMPARATOR >::remove (const K & key) throw (decaf::lang::exceptions::NoSuchElementException, decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

Removes the value (key/value pair) for the specified key from the map, returns a copy of the value that was mapped to the key.

Parameters:

key The search key.

Returns:

a copy of the element that was previously mapped to the given key

Exceptions:

NoSuchElementException if this key is not in the **Map** (p. 1689).

UnsupportedOperationException if this map is unmodifiable.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1698).

6.518.3.19 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual std::size_t decaf::util::StlMap< K, V, COMPARATOR >::size () const [inline, virtual]`

Returns:

The number of elements (key/value pairs) in this map.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1699).

6.518.3.20 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR >::unlock () throw (lang::Exception) [inline, virtual]`

Unlocks the object.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

6.518.3.21 `template<typename K, typename V, typename COMPARATOR = std::less<K>> virtual std::vector<V> decaf::util::StlMap< K, V, COMPARATOR >::values () const [inline, virtual]`

Returns:

the entire set of values in this map as a `std::vector`.

Implements **decaf::util::Map< K, V, COMPARATOR >** (p. 1700).

Referenced by **decaf::util::StlMap< std::string, cms::Topic * >::values()**.

6.518.3.22 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR
>::wait (unsigned long milliseconds) throw (lang::Exception) [inline,
virtual]`

Waits on a signal from this object, which is generated by a call to **Notify**. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or **WAIT_INFINITE**

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.518.3.23 `template<typename K, typename V, typename COMPARATOR =
std::less<K>> virtual void decaf::util::StlMap< K, V, COMPARATOR
>::wait () throw (lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to **Notify**. Must have this object locked before calling.

Exceptions:

Exception

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/StlMap.h`

6.519 decaf::util::StlQueue< T > Class Template Reference

The **Queue** (p. 2154) class accepts messages with an `psuh(m)` command where `m` is the message to be queued.

`#include <src/main/decaf/util/StlQueue.h>`Inheritance diagram for `decaf::util::StlQueue< T >`:

Data Structures

- class **QueueIterator**

Public Member Functions

- **StlQueue** ()
- virtual **~StlQueue** ()
- **Iterator**< T > * **iterator** ()
*Gets an **Iterator** (p. 1489) over this **Queue** (p. 2154).*
- void **clear** ()
Empties this queue.
- T & **front** ()
Returns a Reference to the element at the head of the queue.
- const T & **front** () const
Returns a Reference to the element at the head of the queue.
- T & **back** ()
Returns a Reference to the element at the tail of the queue.
- const T & **back** () const
Returns a Reference to the element at the tail of the queue.
- void **push** (const T &t)
Places a new Object at the Tail of the queue.
- void **enqueueFront** (const T &t)
Places a new Object at the front of the queue.
- T **pop** ()
Removes and returns the element that is at the Head of the queue.
- size_t **size** () const
*Gets the Number of elements currently in the **Queue** (p. 2154).*
- bool **empty** () const
*Checks if this **Queue** (p. 2154) is currently empty.*

- virtual `std::vector< T > toArray () const`
- void **reverse** (`StlQueue< T > &target`) const
Reverses the order of the contents of this queue and stores them in the target queue.
- virtual void **lock** () throw (lang::Exception)
Locks the object.
- virtual void **unlock** () throw (lang::Exception)
Unlocks the object.
- virtual void **wait** () throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs) throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** () throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** () throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.
- T & **getSafeValue** ()
Fetch a reference to the safe value this object will return when there is nothing to fetch from the queue.

6.519.1 Detailed Description

`template<typename T> class decaf::util::StlQueue< T >`

The **Queue** (p. 2154) class accepts messages with an `psuh(m)` command where `m` is the message to be queued. It destructively returns the message with **pop()** (p. 2444). **pop()** (p. 2444) returns messages in the order they were enqueued.

Queue (p. 2154) is implemented with an instance of the STL queue object. The interface is essentially the same as that of the STL queue except that the `pop` method actually reaturns a reference to the element popped. This frees the app from having to call the **front** method before calling `pop`.

```
Queue<string> sq; // make a queue to hold string messages sq.push(s); // enqueues a message
m string s = sq.pop(); // dequeues a message
```

= DESIGN CONSIDERATIONS

The **Queue** (p. 2154) class inherits from the Synchronizable interface and provides methods for locking and unlocking this queue as well as waiting on this queue. In a multi-threaded app this can allow for multiple threads to be reading from and writing to the same **Queue** (p. 2154).

Clients should consider that in a multiple threaded app it is possible that items could be placed on the queue faster than you are taking them off, so protection should be placed in your polling loop to ensure that you don't get stuck there.

6.519.2 Constructor & Destructor Documentation

6.519.2.1 `template<typename T> decaf::util::StlQueue< T >::StlQueue ()`
[inline]

6.519.2.2 `template<typename T> virtual decaf::util::StlQueue< T >::~StlQueue ()`
[inline, virtual]

6.519.3 Member Function Documentation

6.519.3.1 `template<typename T> const T& decaf::util::StlQueue< T >::back ()`
const [inline]

Returns a Reference to the element at the tail of the queue.

Returns:

reference to a queue type object or (safe)

6.519.3.2 `template<typename T> T& decaf::util::StlQueue< T >::back ()` [inline]

Returns a Reference to the element at the tail of the queue.

Returns:

reference to a queue type object or (safe)

6.519.3.3 `template<typename T> void decaf::util::StlQueue< T >::clear ()`
[inline]

Empties this queue.

6.519.3.4 `template<typename T> bool decaf::util::StlQueue< T >::empty () const`
[inline]

Checks if this **Queue** (p. 2154) is currently empty.

Returns:

boolean indicating queue emptiness

6.519.3.5 `template<typename T> void decaf::util::StlQueue< T >::enqueueFront`
(const T & *t*) [inline]

Places a new Object at the front of the queue.

Parameters:

t - **Queue** (p. 2154) Object Type reference.

6.519.3.6 `template<typename T> const T& decaf::util::StlQueue< T >::front ()`
`const [inline]`

Returns a Reference to the element at the head of the queue.

Returns:

reference to a queue type object or (safe)

6.519.3.7 `template<typename T> T& decaf::util::StlQueue< T >::front ()`
`[inline]`

Returns a Reference to the element at the head of the queue.

Returns:

reference to a queue type object or (safe)

6.519.3.8 `template<typename T> T& decaf::util::StlQueue< T >::getSafeValue ()`
`[inline]`

Fetch a reference to the safe value this object will return when there is nothing to fetch from the queue.

Returns:

Reference to this Queues safe object

Referenced by `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::back()`, `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::front()`, and `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >::pop()`.

6.519.3.9 `template<typename T> Iterator<T>* decaf::util::StlQueue< T`
`>::iterator () [inline]`

Gets an **Iterator** (p.1489) over this **Queue** (p.2154).

Returns:

new iterator pointer that is owned by the caller.

6.519.3.10 `template<typename T> virtual void decaf::util::StlQueue< T >::lock ()`
`throw (lang::Exception) [inline, virtual]`

Locks the object.

Implements `decaf::util::concurrent::Synchronizable` (p.2508).

6.519.3.11 `template<typename T> virtual void decaf::util::StlQueue< T >::notify`
`() throw (lang::Exception) [inline, virtual]`

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Implements **decaf::util::concurrent::Synchronizable** (p. 2510).

6.519.3.12 `template<typename T> virtual void decaf::util::StlQueue< T >::notifyAll () throw (lang::Exception) [inline, virtual]`

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Implements **decaf::util::concurrent::Synchronizable** (p. 2511).

6.519.3.13 `template<typename T> T decaf::util::StlQueue< T >::pop () [inline]`

Removes and returns the element that is at the Head of the queue.

Returns:

reference to a queue type object or (safe)

6.519.3.14 `template<typename T> void decaf::util::StlQueue< T >::push (const T & t) [inline]`

Places a new Object at the Tail of the queue.

Parameters:

t - **Queue** (p. 2154) Object Type reference.

6.519.3.15 `template<typename T> void decaf::util::StlQueue< T >::reverse (StlQueue< T > & target) const [inline]`

Reverses the order of the contents of this queue and stores them in the target queue.

Parameters:

target - The target queue that will receive the contents of this queue in reverse order.

6.519.3.16 `template<typename T> size_t decaf::util::StlQueue< T >::size () const [inline]`

Gets the Number of elements currently in the **Queue** (p. 2154).

Returns:

Queue (p. 2154) Size

6.519.3.17 `template<typename T> virtual std::vector<T> decaf::util::StlQueue< T >::toArray () const [inline, virtual]`

Returns:

the all values in this queue as a std::vector.

6.519.3.18 `template<typename T> virtual void decaf::util::StlQueue< T >::unlock
() throw (lang::Exception) [inline, virtual]`

Unlocks the object.

Implements **decaf::util::concurrent::Synchronizable** (p. 2512).

6.519.3.19 `template<typename T> virtual void decaf::util::StlQueue< T >::wait
(unsigned long millisecs) throw (lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

millisecs time to wait, or WAIT_INFINITE

Exceptions:

ActiveMQException

Implements **decaf::util::concurrent::Synchronizable** (p. 2513).

6.519.3.20 `template<typename T> virtual void decaf::util::StlQueue< T >::wait ()
throw (lang::Exception) [inline, virtual]`

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Implements **decaf::util::concurrent::Synchronizable** (p. 2514).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/StlQueue.h`

6.520 decaf::util::StlSet< E > Class Template Reference

Set (p. 2320) template that wraps around a `std::set` to provide a more user-friendly interface and to provide common functions that do not exist in `std::set`.

#include <src/main/decaf/util/StlSet.h> Inheritance diagram for `decaf::util::StlSet< E >`:

Data Structures

- class **ConstSetIterator**
- class **SetIterator**

Public Member Functions

- **StlSet** ()
Default constructor - does nothing.
- **StlSet** (const **StlSet** &source)
Copy constructor - copies the content of the given set into this one.
- **StlSet** (const **Collection**< E > &source)
Copy constructor - copies the content of the given set into this one.
- virtual ~**StlSet** ()
- **Iterator**< E > * **iterator** ()
Returns:
an iterator over a set of elements of type T.
- **Iterator**< E > * **iterator** () const
- virtual bool **equals** (const **StlSet** &source) const
Compares the passed collection to this one, if they contain the same elements, i.e. all their elements are equivalent, then it returns true.
Returns:
true if the Collections contain the same elements.
- virtual void **copy** (const **StlSet** &source)
- virtual void **clear** () throw (lang::exceptions::UnsupportedOperationException)
*Removes all of the elements from this collection (optional operation).
The collection will be empty after this method returns.
This implementation iterates over this collection, removing each element using the **Iterator.remove** (p. 1490) operation. Most implementations will probably choose to override this method for efficiency.
Note that this implementation will throw an **UnsupportedOperationException** if the iterator returned by this collection's iterator method does not implement the remove method and this collection is non-empty.*
Exceptions:
***UnsupportedOperationException** if the clear operation is not supported by this collection*

- virtual bool **contains** (const E &value) const throw (lang::Exception)

Returns true if this collection contains the specified element.

This implementation iterates over the elements in the collection, checking each element in turn for equality with the specified element.

Parameters:

value - the value whose presence is to be queried for in this **Collection** (p. 871).

Returns:

true if the value is contained in this collection

Exceptions:

Exception if an error occurs,

- virtual bool **isEmpty** () const
- virtual std::size_t **size** () const
- virtual bool **add** (const E &value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException)

Returns true if this collection changed as a result of the call.

(Returns false if this collection does not permit duplicates and already contains the specified element.)

*Collections that support this operation may place limitations on what elements may be added to this collection. In particular, some collections will refuse to add null elements, and others will impose restrictions on the type of elements that may be added. **Collection** (p. 871) classes should clearly specify in their documentation any restrictions on what elements may be added.*

If a collection refuses to add a particular element for any reason other than that it already contains the element, it must throw an exception (rather than returning false). This preserves the invariant that a collection always contains the specified element after this call returns.

For non-pointer values, i.e. class instances or string's the object will be copied into the collection, thus the object must support being copied, must not hide the copy constructor and assignment operator.

Parameters:

value - reference to the element to add.

Returns:

true if the element was added

Exceptions:

UnsupportedOperationException

IllegalArgumentException

IllegalStateException if the element cannot be added at this time due to insertion restrictions

- virtual bool **remove** (const E &value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException)

Removes a single instance of the specified element from this collection, if it is present (optional operation).

More formally, removes the first element e such that e == o, if this collection contains one or more such elements. Returns true if this collection contained the specified element (or equivalently, if this collection changed as a result of the call).

This implementation iterates over the collection looking for the specified element. If it finds the element, it removes the element from the collection using the iterator's remove method.

Note that this implementation throws an UnsupportedOperationException if the iterator returned by this collection's iterator method does not implement the remove method and this collection contains the specified object.

Parameters:

value - element to be removed from this collection, if present

Returns:

true if an element was removed as a result of this call

Exceptions:

***UnsupportedOperationException** if the remove operation is not supported by this collection.*

***IllegalArgumentException** If the value is not a valid entry for this **Collection** (p. 871).*

6.520.1 Detailed Description

```
template<typename E> class decaf::util::StlSet< E >
```

Set (p. 2320) template that wraps around a std::set to provide a more user-friendly interface and to provide common functions that do not exist in std::set.

6.520.2 Constructor & Destructor Documentation

6.520.2.1 `template<typename E> decaf::util::StlSet< E >::StlSet () [inline]`

Default constructor - does nothing.

6.520.2.2 `template<typename E> decaf::util::StlSet< E >::StlSet (const StlSet< E > & source) [inline]`

Copy constructor - copies the content of the given set into this one.

Parameters:

source The source set.

6.520.2.3 `template<typename E> decaf::util::StlSet< E >::StlSet (const Collection< E > & source) [inline]`

Copy constructor - copies the content of the given set into this one.

Parameters:

source The source set.

6.520.2.4 `template<typename E> virtual decaf::util::StlSet< E >::~~StlSet () [inline, virtual]`

6.520.3 Member Function Documentation

6.520.3.1 `template<typename E> virtual bool decaf::util::StlSet< E >::add (const E & value) throw (lang::exceptions::UnsupportedOperationException, lang::exceptions::IllegalArgumentException, lang::exceptions::IllegalStateException) [inline, virtual]`

Returns true if this collection changed as a result of the call.

(Returns false if this collection does not permit duplicates and already contains the specified element.)

Collections that support this operation may place limitations on what elements may be added to this collection. In particular, some collections will refuse to add null elements, and others will impose restrictions on the type of elements that may be added. **Collection** (p. 871) classes should clearly specify in their documentation any restrictions on what elements may be added.

If a collection refuses to add a particular element for any reason other than that it already contains the element, it must throw an exception (rather than returning false). This preserves the invariant that a collection always contains the specified element after this call returns.

For non-pointer values, i.e. class instances or string's the object will be copied into the collection, thus the object must support being copied, must not hide the copy constructor and assignment operator.

Parameters:

value - reference to the element to add.

Returns:

true if the element was added

Exceptions:

UnsupportedOperationException

IllegalArgumentException

IllegalStateException if the element cannot be added at this time due to insertion restrictions

Implements **decaf::util::Collection< E >** (p. 873).

```
6.520.3.2  template<typename E> virtual void decaf::util::StlSet< E >::clear ()
           throw ( lang::exceptions::UnsupportedOperationException ) [inline,
           virtual]
```

Removes all of the elements from this collection (optional operation).

The collection will be empty after this method returns.

This implementation iterates over this collection, removing each element using the **Iterator.remove** (p. 1490) operation. Most implementations will probably choose to override this method for efficiency.

Note that this implementation will throw an *UnsupportedOperationException* if the iterator returned by this collection's iterator method does not implement the remove method and this collection is non-empty.

Exceptions:

UnsupportedOperationException if the clear operation is not supported by this collection

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 127).

6.520.3.3 `template<typename E> virtual bool decaf::util::StlSet< E >::contains (const E & value) const throw (lang::Exception) [inline, virtual]`

Returns true if this collection contains the specified element.

This implementation iterates over the elements in the collection, checking each element in turn for equality with the specified element.

Parameters:

value - the value whose presence is to be queried for in this **Collection** (p. 871).

Returns:

true if the value is contained in this collection

Exceptions:

Exception if an error occurs,

Reimplemented from `decaf::util::AbstractCollection< E >` (p. 127).

6.520.3.4 `template<typename E> virtual void decaf::util::StlSet< E >::copy (const StlSet< E > & source) [inline, virtual]`

Referenced by `decaf::util::StlSet< ActiveMQSession * >::StlSet()`.

6.520.3.5 `template<typename E> virtual bool decaf::util::StlSet< E >::equals (const StlSet< E > & source) const [inline, virtual]`

Compares the passed collection to this one, if they contain the same elements, i.e.

all their elements are equivalent, then it returns true.

Returns:

true if the Collections contain the same elements.

Implements `decaf::util::Collection< E >` (p. 875).

6.520.3.6 `template<typename E> virtual bool decaf::util::StlSet< E >::isEmpty () const [inline, virtual]`

Returns:

if the set contains any element or not, TRUE or FALSE

Reimplemented from `decaf::util::AbstractCollection< E >` (p. 129).

6.520.3.7 `template<typename E> Iterator<E>* decaf::util::StlSet< E >::iterator () const [inline, virtual]`

Implements `decaf::lang::Iterable< E >` (p. 1487).

6.520.3.8 `template<typename E> Iterator<E>* decaf::util::StlSet< E >::iterator ()`
`[inline, virtual]`

Returns:

an iterator over a set of elements of type T.

Implements **decaf::lang::Iterable< E >** (p. 1487).

6.520.3.9 `template<typename E> virtual bool decaf::util::StlSet< E >::remove (const E & value) throw (`
`lang::exceptions::UnsupportedOperationException,`
`lang::exceptions::IllegalArgumentException) [inline, virtual]`

Removes a single instance of the specified element from this collection, if it is present (optional operation).

More formally, removes the first element *e* such that *e* == *o*, if this collection contains one or more such elements. Returns true if this collection contained the specified element (or equivalently, if this collection changed as a result of the call).

This implementation iterates over the collection looking for the specified element. If it finds the element, it removes the element from the collection using the iterator's remove method.

Note that this implementation throws an `UnsupportedOperationException` if the iterator returned by this collection's iterator method does not implement the remove method and this collection contains the specified object.

Parameters:

value - element to be removed from this collection, if present

Returns:

true if an element was removed as a result of this call

Exceptions:

UnsupportedOperationException if the remove operation is not supported by this collection.

IllegalArgumentException If the value is not a valid entry for this **Collection** (p. 871).

Reimplemented from **decaf::util::AbstractCollection< E >** (p. 130).

6.520.3.10 `template<typename E> virtual std::size_t decaf::util::StlSet< E >::size () const [inline, virtual]`

Returns:

The number of elements in this set.

Implements **decaf::util::Collection< E >** (p. 878).

The documentation for this class was generated from the following file:

- `src/main/decaf/util/StlSet.h`

6.521 activemq::wireformat::stomp::StompCommandConstants Class Reference

```
#include <src/main/activemq/wireformat/stomp/StompCommandConstants.h>
```

Static Public Attributes

- static const std::string **CONNECT**
- static const std::string **CONNECTED**
- static const std::string **DISCONNECT**
- static const std::string **SUBSCRIBE**
- static const std::string **UNSUBSCRIBE**
- static const std::string **MESSAGE**
- static const std::string **SEND**
- static const std::string **BEGIN**
- static const std::string **COMMIT**
- static const std::string **ABORT**
- static const std::string **ACK**
- static const std::string **ERROR_CMD**
- static const std::string **RECEIPT**
- static const std::string **HEADER_DESTINATION**
- static const std::string **HEADER_TRANSACTIONID**
- static const std::string **HEADER_CONTENTLENGTH**
- static const std::string **HEADER_SESSIONID**
- static const std::string **HEADER_RECEIPT_REQUIRED**
- static const std::string **HEADER_RECEIPTID**
- static const std::string **HEADER_MESSAGEID**
- static const std::string **HEADER_ACK**
- static const std::string **HEADER_LOGIN**
- static const std::string **HEADER_PASSWORD**
- static const std::string **HEADER_CLIENT_ID**
- static const std::string **HEADER_MESSAGE**
- static const std::string **HEADER_CORRELATIONID**
- static const std::string **HEADER_REQUESTID**
- static const std::string **HEADER_RESPONSEID**
- static const std::string **HEADER_EXPIRES**
- static const std::string **HEADER_PERSISTENT**
- static const std::string **HEADER_REPLYTO**
- static const std::string **HEADER_TYPE**
- static const std::string **HEADER_DISPATCH_ASYNC**
- static const std::string **HEADER_EXCLUSIVE**
- static const std::string **HEADER_MAXPENDINGMSGLIMIT**
- static const std::string **HEADER_NOLOCAL**
- static const std::string **HEADER_PREFETCHSIZE**
- static const std::string **HEADER_JMSPRIORITY**
- static const std::string **HEADER_CONSUMERPRIORITY**
- static const std::string **HEADER_RETROACTIVE**
- static const std::string **HEADER_SUBSCRIPTIONNAME**
- static const std::string **HEADER_OLDSUBSCRIPTIONNAME**

- static const std::string **HEADER_TIMESTAMP**
- static const std::string **HEADER_REDELIVERED**
- static const std::string **HEADER_REDELIVERYCOUNT**
- static const std::string **HEADER_SELECTOR**
- static const std::string **HEADER_ID**
- static const std::string **HEADER_SUBSCRIPTION**
- static const std::string **HEADER_TRANSFORMATION**
- static const std::string **HEADER_TRANSFORMATION_ERROR**
- static const std::string **ACK_CLIENT**
- static const std::string **ACK_AUTO**
- static const std::string **ACK_INDIVIDUAL**
- static const std::string **TEXT**
- static const std::string **BYTES**
- static const std::string **QUEUE_PREFIX**
- static const std::string **TOPIC_PREFIX**
- static const std::string **TEMPQUEUE_PREFIX**
- static const std::string **TEMPTOPIC_PREFIX**

6.521.1 Field Documentation

- 6.521.1.1 `const std::string activemq::wireformat::stomp::StompCommandConstants::ABORT`
[static]
- 6.521.1.2 `const std::string activemq::wireformat::stomp::StompCommandConstants::ACK`
[static]
- 6.521.1.3 `const std::string activemq::wireformat::stomp::StompCommandConstants::ACK_AUTO`
[static]
- 6.521.1.4 `const std::string activemq::wireformat::stomp::StompCommandConstants::ACK_CLIENT` [static]
- 6.521.1.5 `const std::string activemq::wireformat::stomp::StompCommandConstants::ACK_INDIVIDUAL` [static]
- 6.521.1.6 `const std::string activemq::wireformat::stomp::StompCommandConstants::BEGIN`
[static]
- 6.521.1.7 `const std::string activemq::wireformat::stomp::StompCommandConstants::BYTES`
[static]
- 6.521.1.8 `const std::string activemq::wireformat::stomp::StompCommandConstants::COMMIT`
[static]
- 6.521.1.9 `const std::string activemq::wireformat::stomp::StompCommandConstants::CONNECT`
[static]
- 6.521.1.10 `const std::string activemq::wireformat::stomp::StompCommandConstants::CONNECTED`
[static]
- 6.521.1.11 `const std::string activemq::wireformat::stomp::StompCommandConstants::DISCONNECT`
[static]
- 6.521.1.12 `const std::string activemq::wireformat::stomp::StompCommandConstants::ERROR_CMD` [static]
- 6.521.1.13 `const std::string activemq::wireformat::stomp::StompCommandConstants::HEADER_ACK` [static]
- 6.521.1.14 `const std::string activemq::wireformat::stomp::StompCommandConstants::HEADER_CLIENT_ID` [static]
- 6.521.1.15 `const std::string activemq::wireformat::stomp::StompCommandConstants::HEADER_CONSUMERPRIORITY` [static]

- `src/main/activemq/wireformat/stomp/StompCommandConstants.h`

6.522 activemq::wireformat::stomp::StompFrame Class Reference

A Stomp-level message frame that encloses all messages to and from the broker.

```
#include <src/main/activemq/wireformat/stomp/StompFrame.h>
```

Public Member Functions

- **StompFrame** ()
Default constructor.
- virtual **~StompFrame** ()
Destruction.
- **StompFrame * clone** () const
Clone this message exactly, returns a new instance that the caller is required to delete.
- void **copy** (const **StompFrame** *src)
Copies the contents of the passed Frame to this one.
- void **setCommand** (const std::string &cmd)
*Sets the command for this **stomp** (p. 90) frame.*
- const std::string & **getCommand** () const
Accessor for this frame's command field.
- bool **hasProperty** (const std::string &name) const
Checks if the given property is present in the Frame.
- std::string **getProperty** (const std::string &name, const std::string &fallback="") const
Gets a property from this Frame's properties and returns it, or the default value given.
- std::string **removeProperty** (const std::string &name)
Gets and remove the property specified, if the property is not set, this method returns the empty string.
- void **setProperty** (const std::string &name, const std::string &value)
Sets the property given to the value specified in this Frame's Properties.
- **decaf::util::Properties** & **getProperties** ()
Gets access to the header properties for this frame.
- const **decaf::util::Properties** & **getProperties** () const
- const std::vector< unsigned char > & **getBody** () const
Accessor for the body data of this frame.
- std::vector< unsigned char > & **getBody** ()
Non-const version of the body accessor.

- `std::size_t getBodyLength () const`
Return the number of bytes contained in this frames body.
- `void setBody (const unsigned char *bytes, std::size_t numBytes)`
Sets the body data of this frame as a byte sequence.
- `void toStream (decaf::io::DataOutputStream *stream) const throw (decaf::io::IOException)`
Writes this Frame to an OuputStream in the Stomp Wire Format.
- `void fromStream (decaf::io::DataInputStream *stream) throw (decaf::io::IOException)`
Reads a Stop Frame from a DataInputStream in the Stomp Wire format.

6.522.1 Detailed Description

A Stomp-level message frame that encloses all messages to and from the broker.

6.522.2 Constructor & Destructor Documentation

6.522.2.1 `activemq::wireformat::stomp::StompFrame::StompFrame () [inline]`

Default constructor.

6.522.2.2 `virtual activemq::wireformat::stomp::StompFrame::~~StompFrame () [inline, virtual]`

Destruction.

6.522.3 Member Function Documentation

6.522.3.1 `StompFrame* activemq::wireformat::stomp::StompFrame::clone () const`

Clone this message exactly, returns a new instance that the caller is required to delete.

Returns:

new copy of this message

6.522.3.2 `void activemq::wireformat::stomp::StompFrame::copy (const StompFrame * src)`

Copies the contents of the passed Frame to this one.

Parameters:

src - Frame to copy

6.522.3.3 `void activemq::wireformat::stomp::StompFrame::fromStream
(decaf::io::DataInputStream * stream) throw (decaf::io::IOException)`

Reads a Stop Frame from a DataInputStream in the Stomp Wire format.

Parameters:

stream - The stream to read the Frame from.

Exceptions:

IOException if an error occurs while writing the Frame.

6.522.3.4 `std::vector<unsigned char>& ac-
tivismq::wireformat::stomp::StompFrame::getBody ()
[inline]`

Non-const version of the body accessor.

6.522.3.5 `const std::vector<unsigned char>& ac-
tivismq::wireformat::stomp::StompFrame::getBody () const
[inline]`

Accessor for the body data of this frame.

Returns:

char pointer to body data

6.522.3.6 `std::size_t activismq::wireformat::stomp::StompFrame::getBodyLength ()
const [inline]`

Return the number of bytes contained in this frames body.

Returns:

Body bytes length.

6.522.3.7 `const std::string& ac-
tivismq::wireformat::stomp::StompFrame::getCommand ()
const [inline]`

Accessor for this frame's command field.

6.522.3.8 `const decaf::util::Properties& ac-
tivismq::wireformat::stomp::StompFrame::getProperties ()
const [inline]`

6.522.3.9 `decaf::util::Properties& ac-
tivismq::wireformat::stomp::StompFrame::getProperties ()
[inline]`

Gets access to the header properties for this frame.

Returns:

the Properties object owned by this Frame

6.522.3.10 `std::string activemq::wireformat::stomp::StompFrame::getProperty
(const std::string & name, const std::string & fallback = "") const`
[inline]

Gets a property from this Frame's properties and returns it, or the default value given.

Parameters:

name - The name of the property to lookup

fallback - The default value to return if this value isn't set

Returns:

string value of the property asked for.

6.522.3.11 `bool activemq::wireformat::stomp::StompFrame::hasProperty (const
std::string & name) const` [inline]

Checks if the given property is present in the Frame.

Parameters:

name - The name of the property to check for.

6.522.3.12 `std::string activemq::wireformat::stomp::StompFrame::removeProperty
(const std::string & name)` [inline]

Gets and remove the property specified, if the property is not set, this method returns the empty string.

Parameters:

name - the Name of the property to get and return.

6.522.3.13 `void activemq::wireformat::stomp::StompFrame::setBody (const
unsigned char * bytes, std::size_t numBytes)`

Sets the body data of this frame as a byte sequence.

Parameters:

bytes The byte buffer to be set in the body.

numBytes The number of bytes in the buffer.

6.522.3.14 `void activemq::wireformat::stomp::StompFrame::setCommand (const std::string & cmd) [inline]`

Sets the command for this **stomp** (p. 90) frame.

Parameters:

cmd command The command to be set.

6.522.3.15 `void activemq::wireformat::stomp::StompFrame::setProperty (const std::string & name, const std::string & value) [inline]`

Sets the property given to the value specified in this Frame's Properties.

Parameters:

name - Name of the property.

value - Value to set the property to.

6.522.3.16 `void activemq::wireformat::stomp::StompFrame::toStream (decaf::io::DataOutputStream * stream) const throw (decaf::io::IOException)`

Writes this Frame to an OuputStream in the Stomp Wire Format.

Parameters:

stream - The stream to write the Frame to.

Exceptions:

IOException if an error occurs while reading the Frame.

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/stomp/StompFrame.h`

6.523 activemq::wireformat::stomp::StompHelper Class Reference

Utility Methods used when marshaling to and from StompFrame's.

```
#include <src/main/activemq/wireformat/stomp/StompHelper.h>
```

Public Member Functions

- **StompHelper** ()
- virtual **~StompHelper** ()
- void **convertProperties** (const **Pointer**< **StompFrame** > &frame, const **Pointer**< **Message** > &message)

Converts the Headers in a Stomp Frame into Headers in the given Message Command.
- void **convertProperties** (const **Pointer**< **Message** > &message, const **Pointer**< **StompFrame** > &frame)

Converts the Properties in a Message Command to Valid Headers and Properties in the StompFrame (p. 2456).
- **Pointer**< **ActiveMQDestination** > **convertDestination** (const std::string &destination)

Converts from a Stomp Destination to an ActiveMQDestination.
- std::string **convertDestination** (const **Pointer**< **ActiveMQDestination** > &destination)

Converts from a ActiveMQDestination to a Stomp Destination Name.
- std::string **convertMessageId** (const **Pointer**< **MessageId** > &messageId)

Converts a MessageId instance to a Stomp MessageId String.
- **Pointer**< **MessageId** > **convertMessageId** (const std::string &messageId)

Converts a Stomp MessageId string to a MessageId.
- std::string **convertConsumerId** (const **Pointer**< **ConsumerId** > &consumerId)

Converts a ConsumerId instance to a Stomp ConsumerId String.
- **Pointer**< **ConsumerId** > **convertConsumerId** (const std::string &consumerId)

Converts a Stomp ConsumerId string to a ConsumerId.
- std::string **convertProducerId** (const **Pointer**< **ProducerId** > &producerId)

Converts a ProducerId instance to a Stomp ProducerId String.
- **Pointer**< **ProducerId** > **convertProducerId** (const std::string &producerId)

Converts a Stomp ProducerId string to a ProducerId.
- std::string **convertTransactionId** (const **Pointer**< **TransactionId** > &transactionId)

Converts a TransactionId instance to a Stomp TransactionId String.
- **Pointer**< **TransactionId** > **convertTransactionId** (const std::string &transactionId)

Converts a Stomp TransactionId string to a TransactionId.

6.523.1 Detailed Description

Utility Methods used when marshaling to and from StompFrame's.

Since:

3.0

6.523.2 Constructor & Destructor Documentation

6.523.2.1 `activemq::wireformat::stomp::StompHelper::StompHelper () [inline]`

6.523.2.2 `virtual activemq::wireformat::stomp::StompHelper::~~StompHelper () [inline, virtual]`

6.523.3 Member Function Documentation

6.523.3.1 `Pointer<ConsumerId> activemq::wireformat::stomp::StompHelper::convertConsumerId (const std::string & consumerId)`

Converts a Stomp ConsumerId string to a ConsumerId.

Parameters:

consumerId - the String Consumer Id to convert.

Returns:

Pointer to a new ConsumerId.

6.523.3.2 `std::string activemq::wireformat::stomp::StompHelper::convertConsumerId (const Pointer< ConsumerId > & consumerId)`

Converts a ConsumerId instance to a Stomp ConsumerId String.

Parameters:

consumerId - the Consumer instance to convert.

Returns:

a Stomp Consumer Id String.

6.523.3.3 `std::string activemq::wireformat::stomp::StompHelper::convertDestination (const Pointer< ActiveMQDestination > & destination)`

Converts from a ActiveMQDestination to a Stomp Destination Name.

Parameters:

destination - The ActiveMQDestination to Convert

Returns:

the Stomp String name that defines the destination.

6.523.3.4 `Pointer<ActiveMQDestination> activemq::wireformat::stomp::StompHelper::convertDestination (const std::string & destination)`

Converts from a Stomp Destination to an ActiveMQDestination.

Parameters:

destination - The Stomp Destination name string.

Returns:

Pointer to a new ActiveMQDestination.

6.523.3.5 `Pointer<MessageId> activemq::wireformat::stomp::StompHelper::convertMessageId (const std::string & messageId)`

Converts a Stomp MessageId string to a MessageId.

Parameters:

messageId - the String message Id to convert.

Returns:

Pointer to a new MessageId.

6.523.3.6 `std::string activemq::wireformat::stomp::StompHelper::convertMessageId (const Pointer< MessageId > & messageId)`

Converts a MessageId instance to a Stomp MessageId String.

Parameters:

messageId - the MessageId instance to convert.

Returns:

a Stomp Message Id String.

6.523.3.7 `Pointer<ProducerId> activemq::wireformat::stomp::StompHelper::convertProducerId (const std::string & producerId)`

Converts a Stomp ProducerId string to a ProducerId.

Parameters:

producerId - the String Producer Id to convert.

Returns:

Pointer to a new ProducerId.

6.523.3.8 `std::string activemq::wireformat::stomp::StompHelper::convertProducerId (const Pointer< ProducerId > & producerId)`

Converts a ProducerId instance to a Stomp ProducerId String.

Parameters:

producerId - the Producer instance to convert.

Returns:

a Stomp Producer Id String.

6.523.3.9 `void activemq::wireformat::stomp::StompHelper::convertProperties (const Pointer< Message > & message, const Pointer< StompFrame > & frame)`

Converts the Properties in a Message Command to Valid Headers and Properties in the **StompFrame** (p. 2456).

Parameters:

message - The message to move the Headers to.

frame - The frame to extract headers from.

6.523.3.10 `void activemq::wireformat::stomp::StompHelper::convertProperties (const Pointer< StompFrame > & frame, const Pointer< Message > & message)`

Converts the Headers in a Stomp Frame into Headers in the given Message Command.

Parameters:

frame - The frame to extract headers from.

message - The message to move the Headers to.

6.523.3.11 `Pointer<TransactionId> activemq::wireformat::stomp::StompHelper::convertTransactionId (const std::string & transactionId)`

Converts a Stomp TransactionId string to a TransactionId.

Parameters:

transactionId - the String Transaction Id to convert.

Returns:

Pointer to a new TransactionId.

6.523.3.12 `std::string activemq::wireformat::stomp::StompHelper::convertTransactionId (const Pointer< TransactionId > & transactionId)`

Converts a TransactionId instance to a Stomp TransactionId String.

Parameters:

transactionId - the Transaction instance to convert.

Returns:

a Stomp Transaction Id String.

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/stomp/StompHelper.h`

6.524 activemq::wireformat::stomp::StompWireFormat

Class Reference

#include <src/main/activemq/wireformat/stomp/StompWireFormat.h> Inheritance diagram for activemq::wireformat::stomp::StompWireFormat:

Public Member Functions

- **StompWireFormat** ()
- virtual **~StompWireFormat** ()
- virtual void **marshal** (const **Pointer**< **commands::Command** > &command, const **activemq::transport::Transport** *transport, **decaf::io::DataOutputStream** *out) throw (**decaf::io::IOException**)

Stream based marshaling of a Command, this method blocks until the entire Command has been written out to the output stream.

- virtual **Pointer**< **commands::Command** > **unmarshal** (const **activemq::transport::Transport** *transport, **decaf::io::DataInputStream** *in) throw (**decaf::io::IOException**)

Stream based un-marshaling, blocks on reads on the input stream until a complete command has been read and unmarshaled into the correct form.

- virtual void **setVersion** (int version **AMQCPP_UNUSED**)

Set the Version.

- virtual int **getVersion** () const

Get the Version.

- virtual bool **hasNegotiator** () const

*Returns true if this **WireFormat** (p. 2693) has a Negotiator that needs to wrap the Transport that uses it.*

- virtual **Pointer**< **transport::Transport** > **createNegotiator** (const **Pointer**< **transport::Transport** > &transport) throw (**decaf::lang::exceptions::UnsupportedOperationException**)

If the Transport Provides a Negotiator this method will create and return a news instance of the Negotiator.

6.524.1 Constructor & Destructor Documentation

6.524.1.1 `activemq::wireformat::stomp::StompWireFormat::StompWireFormat ()`

6.524.1.2 `virtual
activemq::wireformat::stomp::StompWireFormat::~~StompWireFormat ()
[virtual]`

6.524.2 Member Function Documentation

6.524.2.1 `virtual Pointer<transport::Transport> ac-
tivemq::wireformat::stomp::StompWireFormat::createNegotiator
(const Pointer< transport::Transport > & transport) throw (
decaf::lang::exceptions::UnsupportedOperationException) [virtual]`

If the Transport Provides a Negotiator this method will create and return a news instance of the Negotiator.

Returns:

new instance of a **WireFormatNegotiator** (p. 2721).

Exceptions:

UnsupportedOperationException if the **WireFormat** (p. 2693) doesn't have a Negotiator.

Implements **activemq::wireformat::WireFormat** (p. 2694).

6.524.2.2 `virtual int activemq::wireformat::stomp::StompWireFormat::getVersion
() const [inline, virtual]`

Get the Version.

Returns:

the version of the wire format

Implements **activemq::wireformat::WireFormat** (p. 2694).

6.524.2.3 `virtual bool ac-
tivemq::wireformat::stomp::StompWireFormat::hasNegotiator () const
[inline, virtual]`

Returns true if this **WireFormat** (p. 2693) has a Negotiator that needs to wrap the Transport that uses it.

Returns:

true if the **WireFormat** (p. 2693) provides a Negotiator.

Implements **activemq::wireformat::WireFormat** (p. 2694).

6.524.2.4 `virtual void activemq::wireformat::stomp::StompWireFormat::marshal (const Pointer< commands::Command > & command, const activemq::transport::Transport * transport, decaf::io::DataOutputStream * out) throw (decaf::io::IOException)` [virtual]

Stream based marshaling of a Command, this method blocks until the entire Command has been written out to the output stream.

Parameters:

command The Command to Marshal to the output stream.
transport (p. 67) The Transport that initiated this marshal call.
out The output stream to write the command to.

Exceptions:

IOException

Implements `activemq::wireformat::WireFormat` (p. 2695).

6.524.2.5 `virtual void activemq::wireformat::stomp::StompWireFormat::setVersion (int version AMQCPP_UNUSED)` [inline, virtual]

Set the Version.

Parameters:

the version of the wire format

Implements `activemq::wireformat::WireFormat` (p. 2695).

6.524.2.6 `virtual Pointer<commands::Command> activemq::wireformat::stomp::StompWireFormat::unmarshal (const activemq::transport::Transport * transport, decaf::io::DataInputStream * in) throw (decaf::io::IOException)` [virtual]

Stream based un-marshaling, blocks on reads on the input stream until a complete command has been read and unmarshaled into the correct form. Returns a Pointer to the newly unmarshaled Command.

Parameters:

transport (p. 67) - Pointer to the `transport` (p. 67) that is making this request.
in - the input stream to read the command from.

Returns:

the newly marshaled Command, caller owns the pointer

Exceptions:

IOException

Implements `activemq::wireformat::WireFormat` (p. 2695).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/stomp/StompWireFormat.h`

6.525 activemq::wireformat::stomp::StompWireFormatFactory Class Reference

Factory used to create the Stomp Wire Format instance.

#include <src/main/activemq/wireformat/stomp/StompWireFormatFactory.h> Inheritance diagram for activemq::wireformat::stomp::StompWireFormatFactory:

Public Member Functions

- **StompWireFormatFactory** ()
- virtual **~StompWireFormatFactory** ()
- virtual **Pointer< WireFormat > createWireFormat** (const **decaf::util::Properties** &properties) throw (**decaf::lang::exceptions::IllegalStateException**)
*Creates a new **WireFormat** (p. 2693) Object passing it a set of properties from which it can obtain any optional settings.*

6.525.1 Detailed Description

Factory used to create the Stomp Wire Format instance.

6.525.2 Constructor & Destructor Documentation

6.525.2.1 **activemq::wireformat::stomp::StompWireFormatFactory::StompWireFormatFactory** () [inline]

6.525.2.2 **virtual**
activemq::wireformat::stomp::StompWireFormatFactory::~~StompWireFormatFactory () [inline, virtual]

6.525.3 Member Function Documentation

6.525.3.1 **virtual Pointer<WireFormat> ac-**
tivemq::wireformat::stomp::StompWireFormatFactory::createWireFormat
 (const **decaf::util::Properties** & *properties*) throw (**decaf::lang::exceptions::IllegalStateException**) [virtual]

Creates a new **WireFormat** (p. 2693) Object passing it a set of properties from which it can obtain any optional settings.

Parameters:

properties - the Properties for this **WireFormat** (p. 2693)

Implements **activemq::wireformat::WireFormatFactory** (p. 2697).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/stomp/**StompWireFormatFactory.h**

6.526 cms::Stoppable Class Reference

Interface for a class that implements the stop method.

#include <src/main/cms/Stoppable.h> Inheritance diagram for cms::Stoppable:

Public Member Functions

- virtual **~Stoppable** ()
- virtual void **stop** ()=0 throw (CMSEException)

Stops this service.

6.526.1 Detailed Description

Interface for a class that implements the stop method. An object that implements this interface implies that it will halt all operations that result in events being propagated to external users, internally the Object can continue to process data but not events will be generated to clients and methods that return data will not return valid results until the object is started again.

Since:

1.0

6.526.2 Constructor & Destructor Documentation

6.526.2.1 virtual cms::Stoppable::~~Stoppable () [inline, virtual]

6.526.3 Member Function Documentation

6.526.3.1 virtual void cms::Stoppable::stop () throw (CMSEException) [pure virtual]

Stops this service.

Exceptions:

CMSEException (p. 850) - if an internal error occurs while stopping the Service.

Implemented in **activemq::core::ActiveMQConnection** (p. 199).

The documentation for this class was generated from the following file:

- src/main/cms/**Stoppable.h**

6.527 decaf::util::logging::StreamHandler Class Reference

#include <src/main/decaf/util/logging/StreamHandler.h> Inheritance diagram for decaf::util::logging::StreamHandler:

Public Member Functions

- **StreamHandler** ()
*Create a **StreamHandler** (p. 2472), with no current output stream.*
- **StreamHandler** (io::OutputStream *stream, Formatter *formatter)
*Create a **StreamHandler** (p. 2472), with no current output stream.*
- virtual ~**StreamHandler** ()
- virtual void **close** () throw (cms::CMSException)
Close the current output stream.
- virtual void **flush** ()
Flush the Handler's output, clears any buffers.
- virtual void **publish** (const **LogRecord** &record)
*Publish the Log Record to this **Handler** (p. 1382).*
- virtual void **isLoggable** (const **LogRecord** &record)
*Check if this **Handler** (p. 1382) would actually log a given **LogRecord** (p. 1645).*
- virtual void **setFilter** (const **Filter** *filter)
*Sets the **Filter** (p. 1314) that this **Handler** (p. 1382) uses to filter Log Records.*
- virtual const **Filter** * **getFilter** ()
*Gets the **Filter** (p. 1314) that this **Handler** (p. 1382) uses to filter Log Records.*
- virtual void **setLevel** (**Level** level)
***Set** (p. 2320) the log level specifying which message levels will be logged by this **Handler** (p. 1382).*
- virtual **Level** **getLevel** ()
*Get the log level specifying which message levels will be logged by this **Handler** (p. 1382).*
- virtual void **setFormatter** (const **Formatter** *formatter)
*Sets the **Formatter** (p. 1372) used by this **Handler** (p. 1382).*
- virtual const **Formatter** * **getFormatter** ()
*Gets the **Formatter** (p. 1372) used by this **Handler** (p. 1382).*
- virtual io::OutputStream * **getOutputStream** () const
*Gets the output Stream that this **Handler** (p. 1382) is using.*

6.527.1 Constructor & Destructor Documentation

6.527.1.1 decaf::util::logging::StreamHandler::StreamHandler () [inline]

Create a **StreamHandler** (p. 2472), with no current output stream.

6.527.1.2 decaf::util::logging::StreamHandler::StreamHandler (io::OutputStream * *stream*, Formatter * *formatter*) [inline]

Create a **StreamHandler** (p. 2472), with no current output stream.

References decaf::util::logging::Fatal.

6.527.1.3 virtual decaf::util::logging::StreamHandler::~StreamHandler () [inline, virtual]

References DECAF_CATCH_NOTHROW, and DECAF_CATCHALL_NOTHROW.

6.527.2 Member Function Documentation

6.527.2.1 virtual void decaf::util::logging::StreamHandler::close () throw (cms::CMSException) [inline, virtual]

Close the current output stream. The close method will perform a flush and then close the **Handler** (p. 1382). After close has been called this **Handler** (p. 1382) should no longer be used. Method calls may either be silently ignored or may throw runtime exceptions.

Exceptions:

CMSException

Implements decaf::io::Closeable (p. 840).

6.527.2.2 virtual void decaf::util::logging::StreamHandler::flush () [inline, virtual]

Flush the Handler's output, clears any buffers.

Implements decaf::util::logging::Handler (p. 1383).

6.527.2.3 virtual const Filter* decaf::util::logging::StreamHandler::getFilter () [inline, virtual]

Gets the **Filter** (p. 1314) that this **Handler** (p. 1382) uses to filter Log Records.

Returns:

Filter (p. 1314) derived instance

Implements decaf::util::logging::Handler (p. 1383).

6.527.2.4 `virtual const Formatter* decaf::util::logging::StreamHandler::getFormatter ()`
[inline, virtual]

Gets the `Formatter` (p. 1372) used by this **Handler** (p. 1382).

Returns:

currently configured `Formatter` (p. 1372) derived instance

Implements `decaf::util::logging::Handler` (p. 1383).

6.527.2.5 `virtual Level decaf::util::logging::StreamHandler::getLevel ()` [inline, virtual]

Get the log level specifying which message levels will be logged by this **Handler** (p. 1382).

Returns:

Currently set `Level` enumeration value

Implements `decaf::util::logging::Handler` (p. 1383).

6.527.2.6 `virtual io::OutputStream* decaf::util::logging::StreamHandler::getOutputStream ()`
`const` [inline, virtual]

Gets the output `Stream` that this **Handler** (p. 1382) is using.

Returns:

`OuputStream` pointer used by this handler.

6.527.2.7 `virtual void decaf::util::logging::StreamHandler::isLoggable (const LogRecord & record)` [inline, virtual]

Check if this **Handler** (p. 1382) would actually log a given **LogRecord** (p. 1645).

Parameters:

record `LogRecord` (p. 1645) to check

Implements `decaf::util::logging::Handler` (p. 1383).

6.527.2.8 `virtual void decaf::util::logging::StreamHandler::publish (const LogRecord & record)` [inline, virtual]

Publish the `Log Record` to this **Handler** (p. 1382).

Parameters:

record The `LogRecord` (p. 1645) to Publish

Implements `decaf::util::logging::Handler` (p. 1384).

References `DECAF_CATCH_RETHROW`, and `DECAF_CATCHALL_THROW`.

6.527.2.9 virtual void decaf::util::logging::StreamHandler::setFilter (const Filter * *filter*) [inline, virtual]

Sets the **Filter** (p. 1314) that this **Handler** (p. 1382) uses to filter Log Records.

Parameters:

filter Filter (p. 1314) derived instance

Implements **decaf::util::logging::Handler** (p. 1384).

6.527.2.10 virtual void decaf::util::logging::StreamHandler::setFormatter (const Formatter * *formatter*) [inline, virtual]

Sets the **Formatter** (p. 1372) used by this **Handler** (p. 1382).

Parameters:

formatter Formatter (p. 1372) derived instance

Implements **decaf::util::logging::Handler** (p. 1384).

6.527.2.11 virtual void decaf::util::logging::StreamHandler::setLevel (Level *level*) [inline, virtual]

Set (p. 2320) the log level specifying which message levels will be logged by this **Handler** (p. 1382). The intention is to allow developers to turn on verbose **logging** (p. 120), but to limit the messages that are sent to certain Handlers.

Parameters:

level Level enumeration value

Implements **decaf::util::logging::Handler** (p. 1384).

The documentation for this class was generated from the following file:

- src/main/decaf/util/logging/**StreamHandler.h**

6.528 cms::StreamMessage Class Reference

Interface for a **StreamMessage** (p. 2476).

#include <src/main/cms/StreamMessage.h> Inheritance diagram for cms::StreamMessage:

Public Member Functions

- virtual **~StreamMessage** ()
- virtual bool **readBoolean** () const =0 throw (cms::CMSEException)
Reads a Boolean from the Stream message stream.
- virtual void **writeBoolean** (bool value)=0 throw (cms::CMSEException)
Writes a boolean to the Stream message stream as a 1-byte value.
- virtual unsigned char **readByte** () const =0 throw (cms::CMSEException)
Reads a Byte from the Stream message stream.
- virtual void **writeByte** (unsigned char value)=0 throw (cms::CMSEException)
Writes a byte to the Stream message stream as a 1-byte value.
- virtual std::size_t **readBytes** (std::vector< unsigned char > &value) const =0 throw (cms::CMSEException)
Reads a byte array from the Stream message stream.
- virtual void **writeBytes** (const std::vector< unsigned char > &value)=0 throw (cms::CMSEException)
Writes a byte array to the Stream message stream using the vector size as the number of bytes to write.
- virtual std::size_t **readBytes** (unsigned char *&buffer, std::size_t length) const =0 throw (cms::CMSEException)
Reads a portion of the Stream message stream.
- virtual void **writeBytes** (const unsigned char *value, std::size_t offset, std::size_t length)=0 throw (cms::CMSEException)
Writes a portion of a byte array to the Stream message stream.
- virtual char **readChar** () const =0 throw (cms::CMSEException)
Reads a Char from the Stream message stream.
- virtual void **writeChar** (char value)=0 throw (cms::CMSEException)
Writes a char to the Stream message stream as a 1-byte value.
- virtual float **readFloat** () const =0 throw (cms::CMSEException)
Reads a 32 bit float from the Stream message stream.
- virtual void **writeFloat** (float value)=0 throw (cms::CMSEException)

Writes a float to the Stream message stream as a 4 byte value.

- virtual double **readDouble** () const =0 throw (cms::CMSEException)
Reads a 64 bit double from the Stream message stream.
- virtual void **writeDouble** (double value)=0 throw (cms::CMSEException)
Writes a double to the Stream message stream as a 8 byte value.
- virtual short **readShort** () const =0 throw (cms::CMSEException)
Reads a 16 bit signed short from the Stream message stream.
- virtual void **writeShort** (short value)=0 throw (cms::CMSEException)
Writes a signed short to the Stream message stream as a 2 byte value.
- virtual unsigned short **readUnsignedShort** () const =0 throw (cms::CMSEException)
Reads a 16 bit unsigned short from the Stream message stream.
- virtual void **writeUnsignedShort** (unsigned short value)=0 throw (cms::CMSEException)
Writes a unsigned short to the Stream message stream as a 2 byte value.
- virtual int **readInt** () const =0 throw (cms::CMSEException)
Reads a 32 bit signed integer from the Stream message stream.
- virtual void **writeInt** (int value)=0 throw (cms::CMSEException)
Writes a signed int to the Stream message stream as a 4 byte value.
- virtual long long **readLong** () const =0 throw (cms::CMSEException)
Reads a 64 bit long from the Stream message stream.
- virtual void **writeLong** (long long value)=0 throw (cms::CMSEException)
Writes a long long to the Stream message stream as a 8 byte value.
- virtual std::string **readString** () const =0 throw (cms::CMSEException)
Reads an ASCII String from the Stream message stream.
- virtual void **writeString** (const std::string &value)=0 throw (cms::CMSEException)
Writes an ASCII String to the Stream message stream.

6.528.1 Detailed Description

Interface for a **StreamMessage** (p. 2476). The stream Messages provides a **Message** (p. 1753) type whose body is a stream of self describing primitive types. The primitive values are read and written using accessors specific to the given types.

StreamMessage (p. 2476) objects support the following conversion table. The marked cases must be supported. The unmarked cases must throw a **CMSEException** (p. 850). The string-to-primitive conversions may throw a runtime exception if the primitive's `valueOf()` method does not accept it as a valid String representation of the primitive.

A value written as the row type can be read as the column type.

	boolean	byte	short	char	int	long	float	double	String	byte[]
boolean	X									X
byte		X	X		X	X				X
short			X		X	X				X
char				X						X
int					X	X				X
long						X				X
float							X	X		X
double								X		X
String	X	X	X		X	X	X	X	X	
byte[]										X

Since:

1.3

6.528.2 Constructor & Destructor Documentation

6.528.2.1 `virtual cms::StreamMessage::~StreamMessage () [inline, virtual]`

6.528.3 Member Function Documentation

6.528.3.1 `virtual bool cms::StreamMessage::readBoolean () const throw (cms::CMSEException) [pure virtual]`

Reads a Boolean from the Stream message stream.

Returns:

boolean value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 378).

6.528.3.2 `virtual unsigned char cms::StreamMessage::readByte () const throw (cms::CMSEException) [pure virtual]`

Reads a Byte from the Stream message stream.

Returns:

unsigned char value from stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 378).

6.528.3.3 `virtual std::size_t cms::StreamMessage::readBytes (unsigned char *&buffer, std::size_t length) const throw (cms::CMSException) [pure virtual]`

Reads a portion of the Stream message stream. If the length of array value is less than the number of bytes remaining to be read from the stream, the array should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of array value, the bytes should be read into the array. The return value of the total number of bytes read will be less than the length of the array, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

If length is negative, or length is greater than the length of the array value, then an **CMSException** (p. 850) is thrown. No bytes will be read from the stream for this exception case.

Parameters:

buffer the buffer into which the data is read

length the number of bytes to read; must be less than or equal to value.length

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 379).

6.528.3.4 `virtual std::size_t cms::StreamMessage::readBytes (std::vector< unsigned char > &value) const throw (cms::CMSException) [pure virtual]`

Reads a byte array from the Stream message stream. If the length of vector value is less than the number of bytes remaining to be read from the stream, the vector should be filled. A subsequent call reads the next increment, and so on.

If the number of bytes remaining in the stream is less than the length of vector value, the bytes should be read into the vector. The return value of the total number of bytes read will be less than the length of the vector, indicating that there are no more bytes left to be read from the stream. The next read of the stream returns -1.

Parameters:

value buffer to place data in

Returns:

the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 379).

6.528.3.5 `virtual char cms::StreamMessage::readChar () const throw (cms::CMSEException)` [pure virtual]

Reads a Char from the Stream message stream.

Returns:

char value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 380).

6.528.3.6 `virtual double cms::StreamMessage::readDouble () const throw (cms::CMSEException)` [pure virtual]

Reads a 64 bit double from the Stream message stream.

Returns:

double value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQStreamMessage** (p. 380).

6.528.3.7 virtual float cms::StreamMessage::readFloat () const throw (cms::CMSEException) [pure virtual]

Reads a 32 bit float from the Stream message stream.

Returns:

double value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQStreamMessage** (p. 380).

6.528.3.8 virtual int cms::StreamMessage::readInt () const throw (cms::CMSEException) [pure virtual]

Reads a 32 bit signed integer from the Stream message stream.

Returns:

int value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQStreamMessage** (p. 381).

6.528.3.9 virtual long long cms::StreamMessage::readLong () const throw (cms::CMSEException) [pure virtual]

Reads a 64 bit long from the Stream message stream.

Returns:

long long value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQStreamMessage** (p. 381).

6.528.3.10 virtual short cms::StreamMessage::readShort () const throw (cms::CMSEException) [pure virtual]

Reads a 16 bit signed short from the Stream message stream.

Returns:

short value from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in **activemq::commands::ActiveMQStreamMessage** (p. 381).

6.528.3.11 virtual std::string cms::StreamMessage::readString () const throw (cms::CMSEException) [pure virtual]

Reads an ASCII String from the Stream message stream.

Returns:

String from stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 381).

6.528.3.12 `virtual unsigned short cms::StreamMessage::readUnsignedShort () const throw (cms::CMSException) [pure virtual]`

Reads a 16 bit unsigned short from the Stream message stream.

Returns:

unsigned short value from stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to read the message due to some internal error.

MessageEOFException (p. 1841) - if unexpected end of message stream has been reached.

MessageFormatException (p. 1842) - if this type conversion is invalid.

MessageNotReadableException (p. 1876) - if the message is in write-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 382).

6.528.3.13 `virtual void cms::StreamMessage::writeBoolean (bool value) throw (cms::CMSException) [pure virtual]`

Writes a boolean to the Stream message stream as a 1-byte value. The value true is written as the value (byte)1; the value false is written as the value (byte)0.

Parameters:

value boolean to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 382).

6.528.3.14 `virtual void cms::StreamMessage::writeByte (unsigned char value) throw (cms::CMSException) [pure virtual]`

Writes a byte to the Stream message stream as a 1-byte value.

Parameters:

value byte to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 383).

6.528.3.15 `virtual void cms::StreamMessage::writeBytes (const unsigned char * value, std::size_t offset, std::size_t length) throw (cms::CMSEException)` [pure virtual]

Writes a portion of a byte array to the Stream message stream. size as the number of bytes to write.

Parameters:

value bytes to write to the stream

offset the initial offset within the byte array

length the number of bytes to use

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 383).

6.528.3.16 `virtual void cms::StreamMessage::writeBytes (const std::vector< unsigned char > & value) throw (cms::CMSEException)` [pure virtual]

Writes a byte array to the Stream message stream using the vector size as the number of bytes to write.

Parameters:

value bytes to write to the stream

Exceptions:

CMSEException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 383).

6.528.3.17 virtual void cms::StreamMessage::writeChar (char *value*) throw (cms::CMSException) [pure virtual]

Writes a char to the Stream message stream as a 1-byte value.

Parameters:

value char to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 384).

6.528.3.18 virtual void cms::StreamMessage::writeDouble (double *value*) throw (cms::CMSException) [pure virtual]

Writes a double to the Stream message stream as a 8 byte value.

Parameters:

value double to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 384).

6.528.3.19 virtual void cms::StreamMessage::writeFloat (float *value*) throw (cms::CMSException) [pure virtual]

Writes a float to the Stream message stream as a 4 byte value.

Parameters:

value float to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 384).

6.528.3.20 `virtual void cms::StreamMessage::writeInt (int value) throw (cms::CMSException)` [pure virtual]

Writes a signed int to the Stream message stream as a 4 byte value.

Parameters:

value signed int to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 384).

6.528.3.21 `virtual void cms::StreamMessage::writeLong (long long value) throw (cms::CMSException)` [pure virtual]

Writes a long long to the Stream message stream as a 8 byte value.

Parameters:

value signed long long to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 385).

6.528.3.22 `virtual void cms::StreamMessage::writeShort (short value) throw (cms::CMSException)` [pure virtual]

Writes a signed short to the Stream message stream as a 2 byte value.

Parameters:

value signed short to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 385).

6.528.3.23 `virtual void cms::StreamMessage::writeString (const std::string &value) throw (cms::CMSException) [pure virtual]`

Writes an ASCII String to the Stream message stream.

Parameters:

value String to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 385).

6.528.3.24 `virtual void cms::StreamMessage::writeUnsignedShort (unsigned short value) throw (cms::CMSException) [pure virtual]`

Writes a unsigned short to the Stream message stream as a 2 byte value.

Parameters:

value unsigned short to write to the stream

Exceptions:

CMSException (p. 850) - if the CMS provider fails to write the message due to some internal error.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode.

Implemented in `activemq::commands::ActiveMQStreamMessage` (p. 385).

The documentation for this class was generated from the following file:

- `src/main/cms/StreamMessage.h`

6.529 decaf::util::StringTokenizer Class Reference

```
#include <src/main/decaf/util/StringTokenizer.h>
```

Public Member Functions

- **StringTokenizer** (const std::string &str, const std::string &delim=" \t\n\r\f", bool returnDelims=false)
Constructs a string tokenizer for the specified string.
- virtual ~**StringTokenizer** ()
- virtual int **countTokens** () const
Calculates the number of times that this tokenizer's nextToken method can be called before it generates an exception.
- virtual bool **hasMoreTokens** () const
Tests if there are more tokens available from this tokenizer's string.
- virtual std::string **nextToken** () throw (lang::exceptions::NoSuchElementException)
Returns the next token from this string tokenizer.
- virtual std::string **nextToken** (const std::string &delim) throw (lang::exceptions::NoSuchElementException)
Returns the next token in this string tokenizer's string.
- virtual unsigned int **toArray** (std::vector< std::string > &array)
Grab all remaining tokens in the String and return them in the vector that is passed in by reference.
- virtual void **reset** (const std::string &str="", const std::string &delim="", bool returnDelims=false)
Resets the Tokenizer's position in the String to the Beginning calls to countToken and nextToken now start back at the beginning.

6.529.1 Constructor & Destructor Documentation

6.529.1.1 decaf::util::StringTokenizer::StringTokenizer (const std::string & str, const std::string & delim = " \t\n\r\f", bool returnDelims = false)

Constructs a string tokenizer for the specified string. All characters in the delim argument are the delimiters for separating tokens.

If the returnDelims flag is true, then the delimiter characters are also returned as tokens. Each delimiter is returned as a string of length one. If the flag is false, the delimiter characters are skipped and only serve as separators between tokens.

Note that if delim is "", this constructor does not throw an exception. However, trying to invoke other methods on the resulting **StringTokenizer** (p. 2488) may result in an Exception.

Parameters:

str - The string to tokenize

delim - String containing the delimiters

returnDelims - boolean indicating if the delimiters are returned as tokens

6.529.1.2 virtual decaf::util::StringTokenizer::~~StringTokenizer () [virtual]

6.529.2 Member Function Documentation

6.529.2.1 virtual int decaf::util::StringTokenizer::countTokens () const [virtual]

Calculates the number of times that this tokenizer's nextToken method can be called before it generates an exception. The current position is not advanced.

Returns:

Count of remaining tokens

6.529.2.2 virtual bool decaf::util::StringTokenizer::hasMoreTokens () const [virtual]

Tests if there are more tokens available from this tokenizer's string.

Returns:

true if there are more tokens remaining

6.529.2.3 virtual std::string decaf::util::StringTokenizer::nextToken (const std::string & *delim*) throw (lang::exceptions::NoSuchElementException) [virtual]

Returns the next token in this string tokenizer's string. First, the set of characters considered to be delimiters by this **StringTokenizer** (p. 2488) object is changed to be the characters in the string *delim*. Then the next token in the string after the current position is returned. The current position is advanced beyond the recognized token. The new delimiter set remains the default after this call.

Parameters:

delim - string containing the new set of delimiters

Returns:

next string in the token list

Exceptions:

NoSuchElementException

6.529.2.4 virtual std::string decaf::util::StringTokenizer::nextToken () throw (lang::exceptions::NoSuchElementException) [virtual]

Returns the next token from this string tokenizer.

Returns:

string value of next token

Exceptions:

NoSuchElementException

6.529.2.5 `virtual void decaf::util::StringTokenizer::reset (const std::string & str = "", const std::string & delim = "", bool returnDelims = false) [virtual]`

Resets the Tokenizer's position in the String to the Beginning calls to countToken and nextToken now start back at the beginning. This allows this object to be reused, the caller need not create a new instance every time a String needs tokenizing. If set the string param will reset the string that this Tokenizer is working on. If set to "" no change is made. If set the delim param will reset the string that this Tokenizer is using to tokenizer the string. If set to "", no change is made If set the return Delims will set if this Tokenizer will return delimiters as tokens. Defaults to false.

Parameters:

str - New String to tokenize or "", defaults to ""

delim - New Delimiter String to use or "", defaults to ""

returnDelims - Should the Tokenizer return delimiters as Tokens, default false

6.529.2.6 `virtual unsigned int decaf::util::StringTokenizer::toArray (std::vector< std::string > & array) [virtual]`

Grab all remaining tokens in the String and return them in the vector that is passed in by reference.

Parameters:

array - vector to place token strings in

Returns:

number of string placed into the vector

The documentation for this class was generated from the following file:

- src/main/decaf/util/**StringTokenizer.h**

6.530 activemq::commands::SubscriptionInfo Class Reference

#include <src/main/activemq/commands/SubscriptionInfo.h> Inheritance diagram for activemq::commands::SubscriptionInfo:

Public Member Functions

- **SubscriptionInfo** ()
- virtual **~SubscriptionInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **SubscriptionInfo * cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const std::string & **getClientId** () const
- virtual std::string & **getClientId** ()
- virtual void **setClientId** (const std::string &clientId)
- virtual const **Pointer**< **ActiveMQDestination** > & **getDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getDestination** ()
- virtual void **setDestination** (const **Pointer**< **ActiveMQDestination** > &destination)
- virtual const std::string & **getSelector** () const
- virtual std::string & **getSelector** ()
- virtual void **setSelector** (const std::string &selector)
- virtual const std::string & **getSubscriptionName** () const
- virtual std::string & **getSubscriptionName** ()
- virtual void **setSubscriptionName** (const std::string &subscriptionName)
- virtual const **Pointer**< **ActiveMQDestination** > & **getSubscribedDestination** () const
- virtual **Pointer**< **ActiveMQDestination** > & **getSubscribedDestination** ()
- virtual void **setSubscribedDestination** (const **Pointer**< **ActiveMQDestination** > &subscribedDestination)

Static Public Attributes

- static const unsigned char **ID_SUBSCRIPTIONINFO** = 55

Protected Member Functions

- `SubscriptionInfo` (`const SubscriptionInfo &`)
- `SubscriptionInfo & operator=` (`const SubscriptionInfo &`)

Protected Attributes

- `std::string clientId`
- `Pointer< ActiveMQDestination > destination`
- `std::string selector`
- `std::string subscriptionName`
- `Pointer< ActiveMQDestination > subscribedDestination`

6.530.1 Constructor & Destructor Documentation

- 6.530.1.1** `activemq::commands::SubscriptionInfo::SubscriptionInfo` (`const SubscriptionInfo &`) [`inline`, `protected`]
- 6.530.1.2** `activemq::commands::SubscriptionInfo::SubscriptionInfo` ()
- 6.530.1.3** `virtual activemq::commands::SubscriptionInfo::~~SubscriptionInfo` () [`virtual`]

6.530.2 Member Function Documentation

- 6.530.2.1** `virtual SubscriptionInfo* activemq::commands::SubscriptionInfo::cloneDataStructure` () `const` [`virtual`]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

- 6.530.2.2** `virtual void activemq::commands::SubscriptionInfo::copyDataStructure` (`const DataStructure * src`) [`virtual`]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

- 6.530.2.3** `virtual bool activemq::commands::SubscriptionInfo::equals` (`const DataStructure * value`) `const` [`virtual`]

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

6.530.2.4 virtual std::string& activemq::commands::SubscriptionInfo::getClientId () [virtual]

6.530.2.5 virtual const std::string& activemq::commands::SubscriptionInfo::getClientId () const [virtual]

6.530.2.6 virtual unsigned char activemq::commands::SubscriptionInfo::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.530.2.7 `virtual Pointer<ActiveMQDestination>& activemq::commands::SubscriptionInfo::getDestination ()`
[virtual]
- 6.530.2.8 `virtual const Pointer<ActiveMQDestination>& activemq::commands::SubscriptionInfo::getDestination () const`
[virtual]
- 6.530.2.9 `virtual std::string& activemq::commands::SubscriptionInfo::getSelector ()`
[virtual]
- 6.530.2.10 `virtual const std::string& activemq::commands::SubscriptionInfo::getSelector () const`
[virtual]
- 6.530.2.11 `virtual std::string& activemq::commands::SubscriptionInfo::getSubscriptionName ()`
[virtual]
- 6.530.2.12 `virtual const std::string& activemq::commands::SubscriptionInfo::getSubscriptionName () const`
[virtual]
- 6.530.2.13 `virtual Pointer<ActiveMQDestination>& activemq::commands::SubscriptionInfo::getSubscribedDestination ()`
[virtual]
- 6.530.2.14 `virtual const Pointer<ActiveMQDestination>& activemq::commands::SubscriptionInfo::getSubscribedDestination () const` [virtual]
- 6.530.2.15 `SubscriptionInfo& activemq::commands::SubscriptionInfo::operator= (const SubscriptionInfo &)` [inline, protected]
- 6.530.2.16 `virtual void activemq::commands::SubscriptionInfo::setClientId (const std::string & clientId)` [virtual]
- 6.530.2.17 `virtual void activemq::commands::SubscriptionInfo::setDestination (const Pointer< ActiveMQDestination > & destination)` [virtual]
- 6.530.2.18 `virtual void activemq::commands::SubscriptionInfo::setSelector (const std::string & selector)` [virtual]
- 6.530.2.19 `virtual void activemq::commands::SubscriptionInfo::setSubscriptionName (const std::string & subscriptionName)` [virtual]
- 6.530.2.20 `virtual void activemq::commands::SubscriptionInfo::setSubscribedDestination (const Pointer< ActiveMQDestination > & subscribedDestination)` [virtual]
- 6.530.2.21 `virtual std::string activemq::commands::SubscriptionInfo::toString () const` [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseDataStructure` (p. 560).

6.530.3 Field Documentation

6.530.3.1 `std::string activemq::commands::SubscriptionInfo::clientId` [protected]

6.530.3.2 `Pointer<ActiveMQDestination> activemq::commands::SubscriptionInfo::destination`
[protected]

6.530.3.3 `const unsigned char activemq::commands::SubscriptionInfo::ID__ - SUBSCRIPTIONINFO = 55` [static]

6.530.3.4 `std::string activemq::commands::SubscriptionInfo::selector` [protected]

6.530.3.5 `std::string activemq::commands::SubscriptionInfo::subscriptionName`
[protected]

6.530.3.6 `Pointer<ActiveMQDestination> activemq::commands::SubscriptionInfo::subscribedDestination`
[protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/SubscriptionInfo.h`

6.531 activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2496).

#include <src/main/activemq/wireformat/openwire/marshal/v1/SubscriptionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller:

Public Member Functions

- **SubscriptionInfoMarshaller** ()
- virtual **~SubscriptionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal1** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.531.1 Detailed Description

Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2496). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.531.2 Constructor & Destructor Documentation

6.531.2.1 `activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::SubscriptionInfoMarshaller()` `[inline]`

6.531.2.2 `virtual activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::~~SubscriptionInfoMarshaller()` `[inline, virtual]`

6.531.3 Member Function Documentation

6.531.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.531.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.531.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.531.3.4 virtual void **activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::looseUnmarshal** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*) throw (decaf::io::IOException) [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.531.3.5 virtual int **activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::tightMarshal1** (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.531.3.6 virtual void activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.531.3.7 virtual void activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**SubscriptionInfoMarshaller.h**

6.532 activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2500).

#include <src/main/activemq/wireformat/openwire/marshal/v3/SubscriptionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller:

Public Member Functions

- **SubscriptionInfoMarshaller** ()
- virtual **~SubscriptionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.532.1 Detailed Description

Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2500). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.532.2 Constructor & Destructor Documentation

6.532.2.1 `activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::SubscriptionInfoMarshaller()` [inline]

6.532.2.2 `virtual activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::~~SubscriptionInfoMarshaller()` [inline, virtual]

6.532.3 Member Function Documentation

6.532.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.532.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.532.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.532.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.532.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.532.3.6 virtual void activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.532.3.7 virtual void activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/SubscriptionInfoMarshaller.h

6.533 activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2504).

#include <src/main/activemq/wireformat/openwire/marshal/v2/SubscriptionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller:

Public Member Functions

- **SubscriptionInfoMarshaller** ()
- virtual **~SubscriptionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.533.1 Detailed Description

Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2504). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.533.2 Constructor & Destructor Documentation

6.533.2.1 `activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::SubscriptionInfoMarshaller()` [inline]

6.533.2.2 `virtual activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::~~SubscriptionInfoMarshaller()` [inline, virtual]

6.533.3 Member Function Documentation

6.533.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.533.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.533.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.533.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.533.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.533.3.6 virtual void activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.533.3.7 virtual void activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/SubscriptionInfoMarshaller.h

6.534 decaf::util::concurrent::Synchronizable Class Reference

The interface for all synchronizable objects (that is, objects that can be locked and unlocked).

#include <src/main/decaf/util/concurrent/Synchronizable.h> Inheritance diagram for decaf::util::concurrent::Synchronizable:

Public Member Functions

- virtual **~Synchronizable** ()
- virtual void **lock** ()=0 throw (lang::Exception)
Locks the object.
- virtual void **unlock** ()=0 throw (lang::Exception)
Unlocks the object.
- virtual void **wait** ()=0 throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **wait** (unsigned long millisecs)=0 throw (lang::Exception)
Waits on a signal from this object, which is generated by a call to Notify.
- virtual void **notify** ()=0 throw (lang::Exception)
Signals a waiter on this object that it can now wake up and continue.
- virtual void **notifyAll** ()=0 throw (lang::Exception)
Signals the waiters on this object that it can now wake up and continue.

6.534.1 Detailed Description

The interface for all synchronizable objects (that is, objects that can be locked and unlocked).

6.534.2 Constructor & Destructor Documentation

- 6.534.2.1** virtual decaf::util::concurrent::Synchronizable::~~Synchronizable ()
[inline, virtual]

6.534.3 Member Function Documentation

- 6.534.3.1** virtual void decaf::util::concurrent::Synchronizable::lock () throw (lang::Exception) [pure virtual]

Locks the object.

Exceptions:

Exception

Implemented in `activemq::core::MessageDispatchChannel` (p. 1808),
`decaf::internal::io::StandardErrorOutputStream` (p. 2400), `de-`
`caf::internal::io::StandardInputStream` (p. 2404), `decaf::internal::io::StandardOutputStream`
(p. 2410), `decaf::io::BlockingByteArrayInputStream` (p. 568), `de-`
`caf::io::ByteArrayInputStream` (p. 718), `decaf::io::ByteArrayOutputStream`
(p. 725), `decaf::io::FilterInputStream` (p. 1317), `decaf::io::FilterOutputStream`
(p. 1324), `decaf::net::SocketInputStream` (p. 2386), `decaf::net::SocketOutputStream`
(p. 2391), `decaf::util::AbstractCollection< E >` (p. 129),
`decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >`
(p. 926), `decaf::util::concurrent::Mutex` (p. 1922), `decaf::util::StlMap<`
`K, V, COMPARATOR >` (p. 2436), `decaf::util::StlQueue< T >`
(p. 2443), `decaf::util::AbstractCollection< Pointer< Synchronization >`
`>` (p. 129), `decaf::util::AbstractCollection< CompositeTask * >` (p. 129),
`decaf::util::AbstractCollection< URI >` (p. 129), `decaf::util::AbstractCollection<`
`ActiveMQSession * >` (p. 129), `decaf::util::AbstractCollection< Pointer<`
`DestinationInfo > >` (p. 129), `decaf::util::AbstractCollection< Primitive-`
`ValueNode >` (p. 129), `decaf::util::AbstractCollection< Pointer< Com-`
`mand > >` (p. 129), `decaf::util::AbstractCollection< Pointer< Back-`
`upTransport > >` (p. 129), `decaf::util::concurrent::ConcurrentStlMap<`
`Pointer< TransactionId >, Pointer< TransactionState >, Transac-`
`tionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap<`
`Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR`
`>` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< Connec-`
`tionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR`
`>` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< Con-`
`sumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR`
`>` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId`
`>, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 926),
`decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer<`
`ProducerState >, ProducerId::COMPARATOR >` (p. 926), `decaf::util::StlMap<`
`cms::Session *, SessionResolver * >` (p. 2436), `decaf::util::StlMap< std::string,`
`WireFormatFactory * >` (p. 2436), `decaf::util::StlMap< std::string, PrimitiveVal-`
`ueNode >` (p. 2436), `decaf::util::StlMap< std::string, cms::Queue * >` (p. 2436),
`decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, com-`
`mands::ProducerId::COMPARATOR >` (p. 2436), `decaf::util::StlMap< std::string,`
`CachedConsumer * >` (p. 2436), `decaf::util::StlMap< Pointer< commands::ConsumerId`
`>, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2436),
`decaf::util::StlMap< std::string, TransportFactory * >` (p. 2436), `decaf::util::StlMap<`
`int, Pointer< Command > >` (p. 2436), `decaf::util::StlMap< Pointer< com-`
`mands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR`
`>` (p. 2436), `decaf::util::StlMap< std::string, CachedProducer * >` (p. 2436),
`decaf::util::StlMap< std::string, cms::Topic * >` (p. 2436), `decaf::util::StlQueue<`
`Pointer< Transport > >` (p. 2443), `decaf::util::StlQueue< Pointer< MessageDis-`
`patch > >` (p. 2443), `decaf::util::StlQueue< Task >` (p. 2443), `decaf::util::StlQueue<`
`Pointer< Command > >` (p. 2443), and `decaf::util::StlQueue< decaf::lang::Pointer<`
`commands::MessageDispatch > >` (p. 2443).

Referenced by `decaf::util::concurrent::Lock::lock()`.

6.534.3.2 virtual void decaf::util::concurrent::Synchronizable::notify () throw (lang::Exception) [pure virtual]

Signals a waiter on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implemented in `activemq::core::MessageDispatchChannel` (p. 1808), `decaf::internal::io::StandardErrorOutputStream` (p. 2400), `decaf::internal::io::StandardInputStream` (p. 2405), `decaf::internal::io::StandardOutputStream` (p. 2410), `decaf::io::BlockingByteArrayInputStream` (p. 569), `decaf::io::ByteArrayInputStream` (p. 719), `decaf::io::ByteArrayOutputStream` (p. 725), `decaf::io::FilterInputStream` (p. 1318), `decaf::io::FilterOutputStream` (p. 1325), `decaf::net::SocketInputStream` (p. 2386), `decaf::net::SocketOutputStream` (p. 2392), `decaf::util::AbstractCollection< E >` (p. 129), `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 926), `decaf::util::concurrent::Mutex` (p. 1922), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2436), `decaf::util::StlQueue< T >` (p. 2443), `decaf::util::AbstractCollection< Pointer< Synchronization > >` (p. 129), `decaf::util::AbstractCollection< CompositeTask * >` (p. 129), `decaf::util::AbstractCollection< URI >` (p. 129), `decaf::util::AbstractCollection< ActiveMQSession * >` (p. 129), `decaf::util::AbstractCollection< Pointer< DestinationInfo > >` (p. 129), `decaf::util::AbstractCollection< PrimitiveValueNode >` (p. 129), `decaf::util::AbstractCollection< Pointer< Command > >` (p. 129), `decaf::util::AbstractCollection< Pointer< BackupTransport > >` (p. 129), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 926), `decaf::util::StlMap< cms::Session *, SessionResolver * >` (p. 2436), `decaf::util::StlMap< std::string, WireFormatFactory * >` (p. 2436), `decaf::util::StlMap< std::string, PrimitiveValueNode >` (p. 2436), `decaf::util::StlMap< std::string, cms::Queue * >` (p. 2436), `decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR >` (p. 2436), `decaf::util::StlMap< std::string, CachedConsumer * >` (p. 2436), `decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2436), `decaf::util::StlMap< std::string, TransportFactory * >` (p. 2436), `decaf::util::StlMap< int, Pointer< Command > >` (p. 2436), `decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR >` (p. 2436), `decaf::util::StlMap< std::string, CachedProducer * >` (p. 2436), `decaf::util::StlMap< std::string, cms::Topic * >` (p. 2436), `decaf::util::StlQueue< Pointer< Transport > >` (p. 2443), `decaf::util::StlQueue< Pointer< MessageDispatch > >` (p. 2443), `decaf::util::StlQueue< Task >` (p. 2443), `decaf::util::StlQueue<`

`Pointer< Command > >` (p. 2443), and `decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > >` (p. 2443).

6.534.3.3 virtual void decaf::util::concurrent::Synchronizable::notifyAll () throw (lang::Exception) [pure virtual]

Signals the waiters on this object that it can now wake up and continue. Must have this object locked before calling.

Exceptions:

Exception

Implemented in `activemq::core::MessageDispatchChannel` (p. 1808), `decaf::internal::io::StandardErrorOutputStream` (p. 2401), `decaf::internal::io::StandardInputStream` (p. 2405), `decaf::internal::io::StandardOutputStream` (p. 2410), `decaf::io::BlockingByteArrayInputStream` (p. 569), `decaf::io::ByteArrayInputStream` (p. 719), `decaf::io::ByteArrayOutputStream` (p. 725), `decaf::io::FilterInputStream` (p. 1318), `decaf::io::FilterOutputStream` (p. 1325), `decaf::net::SocketInputStream` (p. 2387), `decaf::net::SocketOutputStream` (p. 2392), `decaf::util::AbstractCollection< E >` (p. 129), `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 926), `decaf::util::concurrent::Mutex` (p. 1922), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2436), `decaf::util::StlQueue< T >` (p. 2444), `decaf::util::AbstractCollection< Pointer< Synchronization > >` (p. 129), `decaf::util::AbstractCollection< CompositeTask * >` (p. 129), `decaf::util::AbstractCollection< URI >` (p. 129), `decaf::util::AbstractCollection< ActiveMQSession * >` (p. 129), `decaf::util::AbstractCollection< Pointer< DestinationInfo > >` (p. 129), `decaf::util::AbstractCollection< PrimitiveValueNode >` (p. 129), `decaf::util::AbstractCollection< Pointer< Command > >` (p. 129), `decaf::util::AbstractCollection< Pointer< BackupTransport > >` (p. 129), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 926), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 926), `decaf::util::StlMap< cms::Session *, SessionResolver * >` (p. 2436), `decaf::util::StlMap< std::string, WireFormatFactory * >` (p. 2436), `decaf::util::StlMap< std::string, PrimitiveValueNode >` (p. 2436), `decaf::util::StlMap< std::string, cms::Queue * >` (p. 2436), `decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR >` (p. 2436), `decaf::util::StlMap< std::string, CachedConsumer * >` (p. 2436), `decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2436), `decaf::util::StlMap< std::string, TransportFactory * >` (p. 2436), `decaf::util::StlMap< int, Pointer< Command > >` (p. 2436), `decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR >` (p. 2436), `decaf::util::StlMap< std::string, CachedProducer * >` (p. 2436),

decaf::util::StlMap< std::string, cms::Topic * > (p. 2436), decaf::util::StlQueue< Pointer< Transport > > (p. 2444), decaf::util::StlQueue< Pointer< MessageDispatch > > (p. 2444), decaf::util::StlQueue< Task > (p. 2444), decaf::util::StlQueue< Pointer< Command > > (p. 2444), and decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > > (p. 2444).

6.534.3.4 virtual void decaf::util::concurrent::Synchronizable::unlock () throw (lang::Exception) [pure virtual]

Unlocks the object.

Exceptions:

Exception

Implemented in `activemq::core::MessageDispatchChannel` (p. 1809), `decaf::internal::io::StandardInputStream` (p. 2407), `decaf::internal::io::StandardOutputStream` (p. 2411), `decaf::io::BlockingByteArrayInputStream` (p. 571), `decaf::io::ByteArrayInputStream` (p. 721), `decaf::io::ByteArrayOutputStream` (p. 726), `decaf::io::FilterInputStream` (p. 1321), `decaf::io::FilterOutputStream` (p. 1325), `decaf::net::SocketInputStream` (p. 2388), `decaf::net::SocketOutputStream` (p. 2392), `decaf::util::AbstractCollection< E >` (p. 132), `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 930), `decaf::util::concurrent::Mutex` (p. 1923), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2438), `decaf::util::StlQueue< T >` (p. 2445), `decaf::util::AbstractCollection< Pointer< Synchronization > >` (p. 132), `decaf::util::AbstractCollection< CompositeTask * >` (p. 132), `decaf::util::AbstractCollection< URI >` (p. 132), `decaf::util::AbstractCollection< ActiveMQSession * >` (p. 132), `decaf::util::AbstractCollection< Pointer< DestinationInfo > >` (p. 132), `decaf::util::AbstractCollection< PrimitiveValueNode >` (p. 132), `decaf::util::AbstractCollection< Pointer< Command > >` (p. 132), `decaf::util::AbstractCollection< Pointer< BackupTransport > >` (p. 132), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 930), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 930), `decaf::util::StlMap< cms::Session *, SessionResolver * >` (p. 2438), `decaf::util::StlMap< std::string, WireFormatFactory * >` (p. 2438), `decaf::util::StlMap< std::string, PrimitiveValueNode >` (p. 2438), `decaf::util::StlMap< std::string, cms::Queue * >` (p. 2438), `decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR >` (p. 2438), `decaf::util::StlMap< std::string, CachedConsumer * >` (p. 2438), `decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR >` (p. 2438), `decaf::util::StlMap< std::string, TransportFactory * >` (p. 2438), `decaf::util::StlMap< int, Pointer< Command > >` (p. 2438), `decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR`

> (p. 2438), decaf::util::StlMap< std::string, CachedProducer * > (p. 2438), decaf::util::StlMap< std::string, cms::Topic * > (p. 2438), decaf::util::StlQueue< Pointer< Transport > > (p. 2445), decaf::util::StlQueue< Pointer< MessageDispatch > > (p. 2445), decaf::util::StlQueue< Task > (p. 2445), decaf::util::StlQueue< Pointer< Command > > (p. 2445), and decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > > (p. 2445).

Referenced by decaf::util::concurrent::Lock::unlock(), and decaf::util::concurrent::Lock::~~Lock().

6.534.3.5 virtual void decaf::util::concurrent::Synchronizable::wait (unsigned long *milliseconds*) throw (lang::Exception) [pure virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling. This wait will timeout after the specified time interval.

Parameters:

milliseconds the time in milliseconds to wait, or WAIT_INFINITE

Exceptions:

Exception

Implemented in `activemq::core::MessageDispatchChannel` (p. 1809), `decaf::internal::io::StandardErrorOutputStream` (p. 2401), `decaf::internal::io::StandardInputStream` (p. 2407), `decaf::internal::io::StandardOutputStream` (p. 2411), `decaf::io::BlockingByteArrayInputStream` (p. 571), `decaf::io::ByteArrayInputStream` (p. 721), `decaf::io::ByteArrayOutputStream` (p. 727), `decaf::io::FilterInputStream` (p. 1321), `decaf::io::FilterOutputStream` (p. 1325), `decaf::net::SocketInputStream` (p. 2388), `decaf::net::SocketOutputStream` (p. 2392), `decaf::util::AbstractCollection< E >` (p. 132), `decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR >` (p. 931), `decaf::util::concurrent::Mutex` (p. 1923), `decaf::util::StlMap< K, V, COMPARATOR >` (p. 2439), `decaf::util::StlQueue< T >` (p. 2445), `decaf::util::AbstractCollection< Pointer< Synchronization > >` (p. 132), `decaf::util::AbstractCollection< CompositeTask * >` (p. 132), `decaf::util::AbstractCollection< URI >` (p. 132), `decaf::util::AbstractCollection< ActiveMQSession * >` (p. 132), `decaf::util::AbstractCollection< Pointer< DestinationInfo > >` (p. 132), `decaf::util::AbstractCollection< PrimitiveValueNode >` (p. 132), `decaf::util::AbstractCollection< Pointer< Command > >` (p. 132), `decaf::util::AbstractCollection< Pointer< BackupTransport > >` (p. 132), `decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR >` (p. 931), `decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR >` (p. 931), `decaf::util::StlMap< cms::Session *, SessionResolver * >` (p. 2439), `decaf::util::StlMap< std::string,`

WireFormatFactory * > (p. 2439), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2439), decaf::util::StlMap< std::string, cms::Queue * > (p. 2439), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2439), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2439), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2439), decaf::util::StlMap< std::string, TransportFactory * > (p. 2439), decaf::util::StlMap< int, Pointer< Command > > (p. 2439), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2439), decaf::util::StlMap< std::string, CachedProducer * > (p. 2439), decaf::util::StlMap< std::string, cms::Topic * > (p. 2439), decaf::util::StlQueue< Pointer< Transport > > (p. 2445), decaf::util::StlQueue< Pointer< MessageDispatch > > (p. 2445), decaf::util::StlQueue< Task > (p. 2445), decaf::util::StlQueue< Pointer< Command > > (p. 2445), and decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > > (p. 2445).

6.534.3.6 virtual void decaf::util::concurrent::Synchronizable::wait () throw (lang::Exception) [pure virtual]

Waits on a signal from this object, which is generated by a call to Notify. Must have this object locked before calling.

Exceptions:

Exception

Implemented in activemq::core::MessageDispatchChannel (p. 1809), decaf::internal::io::StandardErrorOutputStream (p. 2401), decaf::internal::io::StandardInputStream (p. 2408), decaf::internal::io::StandardOutputStream (p. 2411), decaf::io::BlockingByteArrayInputStream (p. 572), decaf::io::ByteArrayInputStream (p. 722), decaf::io::ByteArrayOutputStream (p. 727), decaf::io::FilterInputStream (p. 1321), decaf::io::FilterOutputStream (p. 1326), decaf::net::SocketInputStream (p. 2389), decaf::net::SocketOutputStream (p. 2393), decaf::util::AbstractCollection< E > (p. 133), decaf::util::concurrent::ConcurrentStlMap< K, V, COMPARATOR > (p. 931), decaf::util::concurrent::Mutex (p. 1923), decaf::util::StlMap< K, V, COMPARATOR > (p. 2439), decaf::util::StlQueue< T > (p. 2445), decaf::util::AbstractCollection< Pointer< Synchronization > > (p. 133), decaf::util::AbstractCollection< CompositeTask * > (p. 133), decaf::util::AbstractCollection< URI > (p. 133), decaf::util::AbstractCollection< ActiveMQSession * > (p. 133), decaf::util::AbstractCollection< Pointer< DestinationInfo > > (p. 133), decaf::util::AbstractCollection< PrimitiveValueNode > (p. 133), decaf::util::AbstractCollection< Pointer< Command > > (p. 133), decaf::util::AbstractCollection< Pointer< BackupTransport > > (p. 133), decaf::util::concurrent::ConcurrentStlMap< Pointer< TransactionId >, Pointer< TransactionState >, TransactionId::COMPARATOR > (p. 931), decaf::util::concurrent::ConcurrentStlMap< Pointer< MessageId >, Pointer< Message >, MessageId::COMPARATOR > (p. 931), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConnectionId >, Pointer< ConnectionState >, ConnectionId::COMPARATOR > (p. 931), decaf::util::concurrent::ConcurrentStlMap< Pointer< ConsumerId >, Pointer< ConsumerState >, ConsumerId::COMPARATOR > (p. 931), decaf::util::concurrent::ConcurrentStlMap< Pointer< SessionId >, Pointer< SessionState >, SessionId::COMPARATOR > (p. 931),

decaf::util::concurrent::ConcurrentStlMap< Pointer< ProducerId >, Pointer< ProducerState >, ProducerId::COMPARATOR > (p. 931), decaf::util::StlMap< cms::Session *, SessionResolver * > (p. 2439), decaf::util::StlMap< std::string, WireFormatFactory * > (p. 2439), decaf::util::StlMap< std::string, PrimitiveValueNode > (p. 2439), decaf::util::StlMap< std::string, cms::Queue * > (p. 2439), decaf::util::StlMap< Pointer< commands::ProducerId >, ActiveMQProducer *, commands::ProducerId::COMPARATOR > (p. 2439), decaf::util::StlMap< std::string, CachedConsumer * > (p. 2439), decaf::util::StlMap< Pointer< commands::ConsumerId >, ActiveMQConsumer *, commands::ConsumerId::COMPARATOR > (p. 2439), decaf::util::StlMap< std::string, TransportFactory * > (p. 2439), decaf::util::StlMap< int, Pointer< Command > > (p. 2439), decaf::util::StlMap< Pointer< commands::ConsumerId >, Dispatcher *, commands::ConsumerId::COMPARATOR > (p. 2439), decaf::util::StlMap< std::string, CachedProducer * > (p. 2439), decaf::util::StlMap< std::string, cms::Topic * > (p. 2439), decaf::util::StlQueue< Pointer< Transport > > (p. 2445), decaf::util::StlQueue< Pointer< MessageDispatch > > (p. 2445), decaf::util::StlQueue< Task > (p. 2445), decaf::util::StlQueue< Pointer< Command > > (p. 2445), and decaf::util::StlQueue< decaf::lang::Pointer< commands::MessageDispatch > > (p. 2445).

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/**Synchronizable.h**

6.535 activemq::core::Synchronization Class Reference

Transacted Object **Synchronization** (p. 2516), used to sync the events of a Transaction with the items in the Transaction.

```
#include <src/main/activemq/core/Synchronization.h>
```

Public Member Functions

- virtual **~Synchronization** ()
- virtual void **beforeEnd** ()=0 throw (exceptions::ActiveMQException)
- virtual void **afterCommit** ()=0 throw (exceptions::ActiveMQException)
- virtual void **afterRollback** ()=0 throw (exceptions::ActiveMQException)

6.535.1 Detailed Description

Transacted Object **Synchronization** (p. 2516), used to sync the events of a Transaction with the items in the Transaction.

6.535.2 Constructor & Destructor Documentation

6.535.2.1 virtual **activemq::core::Synchronization::~Synchronization** () [inline, virtual]

6.535.3 Member Function Documentation

6.535.3.1 virtual void **activemq::core::Synchronization::afterCommit** () throw (exceptions::ActiveMQException) [pure virtual]

6.535.3.2 virtual void **activemq::core::Synchronization::afterRollback** () throw (exceptions::ActiveMQException) [pure virtual]

6.535.3.3 virtual void **activemq::core::Synchronization::beforeEnd** () throw (exceptions::ActiveMQException) [pure virtual]

The documentation for this class was generated from the following file:

- src/main/activemq/core/**Synchronization.h**

6.536 decaf::lang::System Class Reference

```
#include <src/main/decaf/lang/System.h>
```

Public Member Functions

- **System** ()
- virtual **~System** ()

Static Public Member Functions

- static const **util::Map**< std::string, std::string > & **getenv** () throw (lang::Exception)
Enumerates the system environment and returns a map of env variable names to the string values they hold.
- static std::string **getenv** (const std::string &name) throw (lang::Exception)
Reads an environment value from the system and returns it as a string object.
- static void **unsetenv** (const std::string &name) throw (lang::Exception)
Clears a set env value if one is set.
- static void **setenv** (const std::string &name, const std::string &value) throw (lang::Exception)
Sets the specified system property to the value given.
- static long long **currentTimeMillis** ()
- static long long **nanoTime** ()
Returns the current value of the most precise available system timer, in nanoseconds.

6.536.1 Constructor & Destructor Documentation

6.536.1.1 decaf::lang::System::System ()

6.536.1.2 virtual decaf::lang::System::~~System () [inline, virtual]

6.536.2 Member Function Documentation

6.536.2.1 static long long decaf::lang::System::currentTimeMillis () [static]

Returns:

the current system time in Milliseconds

6.536.2.2 static std::string decaf::lang::System::getenv (const std::string & name)
throw (lang::Exception) [static]

Reads an environment value from the system and returns it as a string object.

Parameters:

name - the env var to read

Returns:

a string with the value from the var or ""

Exceptions:

an Exception (p. 1268) if an error occurs while reading the Env.

6.536.2.3 `static const util::Map<std::string, std::string>&
decaf::lang::System::getenv () throw (lang::Exception) [static]`

Enumerates the system environment and returns a map of env variable names to the string values they hold.

Returns:

A Map of all environment variables.

Exceptions:

Exception (p. 1268) if an error occurs

6.536.2.4 `static long long decaf::lang::System::nanoTime () [static]`

Returns the current value of the most precise available system timer, in nanoseconds. This method can only be used to measure elapsed time and is not related to any other notion of system or wall-clock time. The value returned represents nanoseconds since some fixed but arbitrary time (perhaps in the future, so values may be negative). This method provides nanosecond precision, but not necessarily nanosecond accuracy. No guarantees are made about how frequently values change. Differences in successive calls that span greater than approximately 292 years (263 nanoseconds) will not accurately compute elapsed time due to numerical overflow.

For example, to measure how long some code takes to execute:

```
long long startTime = System::nanoTime() (p. 2518); // ... the code being measured ... long
long estimatedTime = System::nanoTime() (p. 2518) - startTime;
```

Returns:

The current value of the system timer, in nanoseconds.

6.536.2.5 `static void decaf::lang::System::setenv (const std::string & name, const
std::string & value) throw (lang::Exception) [static]`

Sets the specified system property to the value given.

Parameters:

name - name of the env val to set

value - value to assign to name

Exceptions:

an **Exception** (p. 1268) if an error occurs

6.536.2.6 static void decaf::lang::System::unsetenv (const std::string & *name*)
throw (lang::Exception) [static]

Clears a set env value if one is set.

Parameters:

name - the env var to clear

Exceptions:

an **Exception** (p. 1268) if an error occurs while reading the Env.

The documentation for this class was generated from the following file:

- src/main/decaf/lang/**System.h**

6.537 activemq::threads::Task Class Reference

Represents a unit of work that requires one or more iterations to complete.

#include <src/main/activemq/threads/Task.h> Inheritance diagram for activemq::threads::Task:

Public Member Functions

- virtual **~Task** ()
- virtual bool **iterate** ()=0

Perform one iteration of work, returns true if the task needs to run again to complete or false to indicate that the task is now complete.

6.537.1 Detailed Description

Represents a unit of work that requires one or more iterations to complete.

Since:

3.0

6.537.2 Constructor & Destructor Documentation

6.537.2.1 virtual **activemq::threads::Task::~Task** () [inline, virtual]

6.537.3 Member Function Documentation

6.537.3.1 virtual bool **activemq::threads::Task::iterate** () [pure virtual]

Perform one iteration of work, returns true if the task needs to run again to complete or false to indicate that the task is now complete.

Returns:

true if the task should be run again or false if the task has completed and the runner should wait for a wakeup call.

Implemented in **activemq::core::ActiveMQSessionExecutor** (p. 371), **activemq::threads::CompositeTaskRunner** (p. 909), **activemq::transport::failover::BackupTransportPool** (p. 506), **activemq::transport::failover::CloseTransportsTask** (p. 842), and **activemq::transport::failover::FailoverTransport** (p. 1302).

The documentation for this class was generated from the following file:

- src/main/activemq/threads/**Task.h**

6.538 decaf::util::concurrent::TaskListener Class Reference

```
#include <src/main/decaf/util/concurrent/TaskListener.h>
```

Public Member Functions

- virtual `~TaskListener ()`
- virtual void `onTaskComplete (lang::Runnable *task)=0`
Called when a queued task has completed, the task that finished is passed along for user consumption.
- virtual void `onTaskException (lang::Runnable *task, lang::Exception &ex)=0`
Called when a queued task has thrown an exception while being run.

6.538.1 Constructor & Destructor Documentation

- 6.538.1.1** virtual `decaf::util::concurrent::TaskListener::~~TaskListener ()` [inline, virtual]

6.538.2 Member Function Documentation

- 6.538.2.1** virtual void `decaf::util::concurrent::TaskListener::onTaskComplete (lang::Runnable * task)` [pure virtual]

Called when a queued task has completed, the task that finished is passed along for user consumption.

Parameters:

task Runnable Pointer to the task that finished

- 6.538.2.2** virtual void `decaf::util::concurrent::TaskListener::onTaskException (lang::Runnable * task, lang::Exception & ex)` [pure virtual]

Called when a queued task has thrown an exception while being run. The Callee should assume that this was an unrecoverable exception and that this task is now defunct.

Parameters:

task Runnable Pointer to the task

ex The ActiveMQException that was thrown.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/TaskListener.h`

6.539 activemq::threads::TaskRunner Class Reference

#include <src/main/activemq/threads/TaskRunner.h> Inheritance diagram for activemq::threads::TaskRunner:

Public Member Functions

- virtual `~TaskRunner ()`
- virtual void `shutdown (unsigned int timeout)=0`
Shutdown after a timeout, does not guarantee that the task's iterate method has completed and the thread halted.
- virtual void `shutdown ()=0`
Shutdown once the task has finished and the TaskRunner's thread has exited.
- virtual void `wakeup ()=0`
*Signal the **TaskRunner** (p. 2522) to wakeup and execute another iteration cycle on the task, the **Task** (p. 2520) instance will be run until its iterate method has returned false indicating it is done.*

6.539.1 Constructor & Destructor Documentation

6.539.1.1 virtual `activemq::threads::TaskRunner::~~TaskRunner ()` [inline, virtual]

6.539.2 Member Function Documentation

6.539.2.1 virtual void `activemq::threads::TaskRunner::shutdown ()` [pure virtual]

Shutdown once the task has finished and the TaskRunner's thread has exited.

Implemented in `activemq::threads::CompositeTaskRunner` (p. 909), and `activemq::threads::DedicatedTaskRunner` (p. 1184).

6.539.2.2 virtual void `activemq::threads::TaskRunner::shutdown (unsigned int timeout)` [pure virtual]

Shutdown after a timeout, does not guarantee that the task's iterate method has completed and the thread halted.

Parameters:

timeout - Time in Milliseconds to wait for the task to stop.

Implemented in `activemq::threads::CompositeTaskRunner` (p. 910), and `activemq::threads::DedicatedTaskRunner` (p. 1184).

6.539.2.3 virtual void activemq::threads::TaskRunner::wakeup () [pure virtual]

Signal the **TaskRunner** (p. 2522) to wakeup and execute another iteration cycle on the task, the **Task** (p. 2520) instance will be run until its iterate method has returned false indicating it is done.

Implemented in **activemq::threads::CompositeTaskRunner** (p. 910), and **activemq::threads::DedicatedTaskRunner** (p. 1184).

The documentation for this class was generated from the following file:

- src/main/activemq/threads/**TaskRunner.h**

6.540 decaf::net::TcpSocket Class Reference

Platform-independent implementation of the socket interface.

#include <src/main/decaf/net/TcpSocket.h> Inheritance diagram for decaf::net::TcpSocket:

Public Member Functions

- **TcpSocket** () throw (SocketException)
Construct a non-connected socket.
- **TcpSocket** (SocketHandle socketHandle)
Construct a connected or bound socket based on given socket handle.
- virtual ~**TcpSocket** ()
Releases the socket handle but not gracefully shut down the connection.
- **SocketHandle** **getSocketHandle** ()
Gets the handle for the socket.
- void **connect** (const char *host, int port, int timeout) throw (SocketException)
Connects to the specified destination.
- virtual void **connect** (const char *host, int port) throw (SocketException)
Connects to the specified destination.
- virtual bool **isConnected** () const
Indicates whether or not this socket is connected to a destination.
- virtual **io::InputStream** * **getInputStream** ()
Gets the InputStream for this socket.
- virtual **io::OutputStream** * **getOutputStream** ()
Gets the OutputStream for this socket.
- virtual int **getSoLinger** () const throw (SocketException)
Gets the linger time.
- virtual void **setSoLinger** (int linger) throw (SocketException)
Sets the linger time.
- virtual bool **getKeepAlive** () const throw (SocketException)
Gets the keep alive flag.
- virtual void **setKeepAlive** (bool keepAlive) throw (SocketException)
Enables/disables the keep alive flag.
- virtual int **getReceiveBufferSize** () const throw (SocketException)

Gets the receive buffer size.

- virtual void **setReceiveBufferSize** (int size) throw (SocketException)
Sets the receive buffer size.
- virtual bool **getReuseAddress** () const throw (SocketException)
Gets the reuse address flag.
- virtual void **setReuseAddress** (bool reuse) throw (SocketException)
Sets the reuse address flag.
- virtual int **getSendBufferSize** () const throw (SocketException)
Gets the send buffer size.
- virtual void **setSendBufferSize** (int size) throw (SocketException)
Sets the send buffer size.
- virtual int **getSoTimeout** () const throw (SocketException)
Gets the timeout for socket operations.
- virtual void **setSoTimeout** (int timeout) throw (SocketException)
Sets the timeout for socket operations.
- virtual void **close** () throw (lang::Exception)
Closes this object and deallocates the appropriate resources.
- virtual bool **getTcpNoDelay** () const throw (lang::Exception)
Gets the Status of the TCP_NODELAY param for this socket as a Bool.
- virtual void **setTcpNoDelay** (bool value) throw (lang::Exception)
Sets the Status of the TCP_NODELAY param for this socket as a Bool.

Protected Member Functions

- void **checkResult** (apr_status_t value) const throw (SocketException)

6.540.1 Detailed Description

Platform-independent implementation of the socket interface.

6.540.2 Constructor & Destructor Documentation

6.540.2.1 decaf::net::TcpSocket::TcpSocket () throw (SocketException)

Construct a non-connected socket.

Exceptions:

SocketException (p. 2379) thrown on windows if the static initialization call to WSAS-tartup was not successful.

6.540.2.2 decaf::net::TcpSocket::TcpSocket (SocketHandle *socketHandle*)

Construct a connected or bound socket based on given socket handle.

Parameters:

socketHandle a socket handle to wrap in the object

6.540.2.3 virtual decaf::net::TcpSocket::~~TcpSocket () [virtual]

Releases the socket handle but not gracefully shut down the connection.

6.540.3 Member Function Documentation

```
6.540.3.1 void decaf::net::TcpSocket::checkResult (apr_status_t value) const
throw (SocketException) [protected]
```

```
6.540.3.2 virtual void decaf::net::TcpSocket::close () throw ( lang::Exception )
[virtual]
```

Closes this object and deallocates the appropriate resources.

Exceptions:

Exception

Implements **decaf::io::Closeable** (p. 840).

```
6.540.3.3  virtual void decaf::net::TcpSocket::connect (const char * host, int port)
            throw ( SocketException ) [inline, virtual]
```

Connects to the specified destination. Closes this socket if connected to another destination.

Parameters:

host The host of the server to connect to.

port The port of the server to connect to.

Exceptions:

SocketException (p. 2379) Thrown if a failure occurred in the connect.

Implements **decaf::net::Socket** (p. 2372).

```
6.540.3.4 void decaf::net::TcpSocket::connect (const char * host, int port, int
timeout) throw ( SocketException )
```

Connects to the specified destination. Closes this socket if connected to another destination.

Parameters:

host The host of the server to connect to.

port The port of the server to connect to.

timeout of socket in microseconds

Exceptions:

SocketException (p. 2379) Thrown if a failure occurred in the connect.

6.540.3.5 virtual io::InputStream* decaf::net::TcpSocket::getInputStream () [virtual]

Gets the InputStream for this socket.

Returns:

The InputStream for this socket. NULL if not connected.

Implements **decaf::net::Socket** (p. 2373).

6.540.3.6 virtual bool decaf::net::TcpSocket::getKeepAlive () const throw (SocketException) [virtual]

Gets the keep alive flag.

Returns:

True if keep alive is enabled.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2373).

6.540.3.7 virtual io::OutputStream* decaf::net::TcpSocket::getOutputStream () [virtual]

Gets the OutputStream for this socket.

Returns:

the OutputStream for this socket. NULL if not connected.

Implements **decaf::net::Socket** (p. 2373).

6.540.3.8 virtual int decaf::net::TcpSocket::getReceiveBufferSize () const throw (SocketException) [virtual]

Gets the receive buffer size.

Returns:

the receive buffer size in bytes.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2373).

6.540.3.9 **virtual bool decaf::net::TcpSocket::getReuseAddress () const throw (SocketException)** [virtual]

Gets the reuse address flag.

Returns:

True if the address can be reused.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2374).

6.540.3.10 **virtual int decaf::net::TcpSocket::getSendBufferSize () const throw (SocketException)** [virtual]

Gets the send buffer size.

Returns:

the size in bytes of the send buffer.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2374).

6.540.3.11 **SocketHandle decaf::net::TcpSocket::getSocketHandle ()** [inline]

Gets the handle for the socket.

Returns:

SocketHabler for this **Socket** (p. 2371), can be NULL

6.540.3.12 **virtual int decaf::net::TcpSocket::getSoLinger () const throw (SocketException)** [virtual]

Gets the linger time.

Returns:

The linger time in seconds.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2374).

6.540.3.13 `virtual int decaf::net::TcpSocket::getSoTimeout () const throw (SocketException)` [virtual]

Gets the timeout for socket operations.

Returns:

The timeout in milliseconds for socket operations.

Exceptions:

SocketException (p. 2379) Thrown if unable to retrieve the information.

Implements **decaf::net::Socket** (p. 2375).

6.540.3.14 `virtual bool decaf::net::TcpSocket::getTcpNoDelay () const throw (lang::Exception)` [virtual]

Gets the Status of the TCP_NODELAY param for this socket as a Bool.

Returns:

true if TCP_NODELAY is enabled

Exceptions:

Exception

6.540.3.15 `virtual bool decaf::net::TcpSocket::isConnected () const` [inline, virtual]

Indicates whether or not this socket is connected to a destination.

Returns:

true if connected

Implements **decaf::net::Socket** (p. 2375).

6.540.3.16 `virtual void decaf::net::TcpSocket::setKeepAlive (bool keepAlive) throw (SocketException)` [virtual]

Enables/disables the keep alive flag.

Parameters:

keepAlive If true, enables the flag.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements **decaf::net::Socket** (p. 2375).

6.540.3.17 `virtual void decaf::net::TcpSocket::setReceiveBufferSize (int size) throw (SocketException)` [virtual]

Sets the receive buffer size.

Parameters:

size Number of bytes to set the receive buffer to.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements `decaf::net::Socket` (p. 2375).

6.540.3.18 `virtual void decaf::net::TcpSocket::setReuseAddress (bool reuse) throw (SocketException)` [virtual]

Sets the reuse address flag.

Parameters:

reuse If true, sets the flag.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements `decaf::net::Socket` (p. 2376).

6.540.3.19 `virtual void decaf::net::TcpSocket::setSendBufferSize (int size) throw (SocketException)` [virtual]

Sets the send buffer size.

Parameters:

size The number of bytes to set the send buffer to.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements `decaf::net::Socket` (p. 2376).

6.540.3.20 `virtual void decaf::net::TcpSocket::setSoLinger (int linger) throw (SocketException)` [virtual]

Sets the linger time.

Parameters:

linger The linger time in seconds. If 0, linger is off.

Exceptions:

SocketException (p. 2379) if the operation fails.

Implements `decaf::net::Socket` (p. 2376).

6.540.3.21 `virtual void decaf::net::TcpSocket::setSoTimeout (int timeout) throw (SocketException) [virtual]`

Sets the timeout for socket operations.

Parameters:

timeout The timeout in milliseconds for socket operations.

Exceptions:

SocketException (p. 2379) Thrown if unable to set the information.

Implements `decaf::net::Socket` (p. 2377).

6.540.3.22 `virtual void decaf::net::TcpSocket::setTcpNoDelay (bool value) throw (lang::Exception) [virtual]`

Sets the Status of the TCP_NODELAY param for this socket as a Bool.

Parameters:

value - true if TCP_NODELAY is to be enabled

Exceptions:

Exception

The documentation for this class was generated from the following file:

- `src/main/decaf/net/TcpSocket.h`

6.541 activemq::transport::tcp::TcpTransport Class Reference

Implements a TCP/IP based **transport** (p. 67) filter, this **transport** (p. 67) is meant to wrap an instance of an **IOTransport** (p. 1480).

#include <src/main/activemq/transport/tcp/TcpTransport.h> Inheritance diagram for activemq::transport::tcp::TcpTransport:

Public Member Functions

- **TcpTransport** (const **decaf::util::Properties** &properties, const **Pointer**< **Transport** > &next)

Constructor.

- **TcpTransport** (const **decaf::net::URI** &uri, const **decaf::util::Properties** &properties, const **Pointer**< **Transport** > &next)

Constructor.

- virtual ~**TcpTransport** ()
- virtual void **close** () throw (cms::CMSException)

Delegates to the superclass and then closes the socket.

- virtual bool **isFaultTolerant** () const

*Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.*

- virtual bool **isConnected** () const

*Is the **Transport** (p. 2608) Connected to its Broker.*

- virtual bool **isClosed** () const

*Has the **Transport** (p. 2608) been shutdown and no longer usable.*

6.541.1 Detailed Description

Implements a TCP/IP based **transport** (p. 67) filter, this **transport** (p. 67) is meant to wrap an instance of an **IOTransport** (p. 1480). The lower level **transport** (p. 67) should take care of managing stream reads and writes.

6.541.2 Constructor & Destructor Documentation

- #### 6.541.2.1 activemq::transport::tcp::TcpTransport::TcpTransport (const decaf::util::Properties & *properties*, const **Pointer**< **Transport** > & *next*)

Constructor.

Parameters:

properties the configuration properties for this **transport** (p. 67)
next the next **transport** (p. 67) in the chain

6.541.2.2 `activemq::transport::tcp::TcpTransport::TcpTransport (const decaf::net::URI & uri, const decaf::util::Properties & properties, const Pointer< Transport > & next)`

Constructor.

Parameters:

uri - The URI containing the host to connect to.
properties the configuration properties for this **transport** (p. 67)
next the next **transport** (p. 67) in the chain

6.541.2.3 `virtual activemq::transport::tcp::TcpTransport::~~TcpTransport ()`
 [virtual]

6.541.3 Member Function Documentation

6.541.3.1 `virtual void activemq::transport::tcp::TcpTransport::close () throw (cms::CMSException)` [virtual]

Delegates to the superclass and then closes the socket.

Exceptions:

CMSException if errors occur.

Reimplemented from **activemq::transport::TransportFilter** (p. 2618).

6.541.3.2 `virtual bool activemq::transport::tcp::TcpTransport::isClosed () const`
 [inline, virtual]

Has the **Transport** (p. 2608) been shutdown and no longer usable.

Returns:

true if the **Transport** (p. 2608)

Reimplemented from **activemq::transport::TransportFilter** (p. 2619).

6.541.3.3 `virtual bool activemq::transport::tcp::TcpTransport::isConnected () const`
 [inline, virtual]

Is the **Transport** (p. 2608) Connected to its Broker.

Returns:

true if a connection has been made.

Reimplemented from **activemq::transport::TransportFilter** (p. 2619).

6.541.3.4 `virtual bool activemq::transport::tcp::TcpTransport::isFaultTolerant ()` `const [inline, virtual]`

Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.

Returns:

true if the **Transport** (p. 2608) is fault tolerant.

Reimplemented from `activemq::transport::TransportFilter` (p. 2619).

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/tcp/TcpTransport.h`

6.542 activemq::transport::tcp::TcpTransportFactory Class Reference

Factory Responsible for creating the **TcpTransport** (p. 2532).

#include <src/main/activemq/transport/tcp/TcpTransportFactory.h> Inheritance diagram for activemq::transport::tcp::TcpTransportFactory:

Public Member Functions

- virtual **~TcpTransportFactory** ()
- virtual **Pointer< Transport > create** (const **decaf::net::URI** &location) throw (exceptions::ActiveMQException)

*Creates a fully configured **Transport** (p. 2608) instance which could be a chain of filters and transports.*

- virtual **Pointer< Transport > createComposite** (const **decaf::net::URI** &location) throw (exceptions::ActiveMQException)

*Creates a slimed down **Transport** (p. 2608) instance which can be used in composite **transport** (p. 67) instances.*

Protected Member Functions

- virtual **Pointer< Transport > doCreateComposite** (const **decaf::net::URI** &location, const **Pointer< wireformat::WireFormat >** &wireFormat, const **decaf::util::Properties** &properties) throw (exceptions::ActiveMQException)

*Creates a slimed down **Transport** (p. 2608) instance which can be used in composite **transport** (p. 67) instances.*

6.542.1 Detailed Description

Factory Responsible for creating the **TcpTransport** (p. 2532).

6.542.2 Constructor & Destructor Documentation

6.542.2.1 virtual
 activemq::transport::tcp::TcpTransportFactory::~~TcpTransportFactory ()
 [inline, virtual]

6.542.3 Member Function Documentation

6.542.3.1 virtual Pointer<Transport> activemq::transport::tcp::TcpTransportFactory::create (const decaf::net::URI & *location*) throw (exceptions::ActiveMQException)
 [virtual]

Creates a fully configured **Transport** (p.2608) instance which could be a chain of filters and transports.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implements **activemq::transport::TransportFactory** (p.2614).

6.542.3.2 virtual Pointer<Transport> activemq::transport::tcp::TcpTransportFactory::createComposite (const decaf::net::URI & *location*) throw (exceptions::ActiveMQException)
 [virtual]

Creates a slimed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implements **activemq::transport::TransportFactory** (p.2615).

6.542.3.3 virtual Pointer<Transport> activemq::transport::tcp::TcpTransportFactory::doCreateComposite (const decaf::net::URI & *location*, const Pointer< wireformat::WireFormat > & *wireFormat*, const decaf::util::Properties & *properties*) throw (exceptions::ActiveMQException) [protected, virtual]

Creates a slimed down **Transport** (p.2608) instance which can be used in composite **transport** (p.67) instances.

Parameters:

location - URI location to connect to.

wireFormat - the assigned WireFormat for the new **Transport** (p. 2608).

properties - Properties to apply to the **transport** (p. 67).

Returns:

new Pointer to a **TcpTransport** (p. 2532).

Exceptions:

ActiveMQException if an error occurs

The documentation for this class was generated from the following file:

- src/main/activemq/transport/tcp/**TcpTransportFactory.h**

6.543 cms::TemporaryQueue Class Reference

Defines a Temporary **Queue** (p. 2157) based **Destination** (p. 1190).

#include <src/main/cms/TemporaryQueue.h> Inheritance diagram for cms::TemporaryQueue:

Public Member Functions

- virtual **~TemporaryQueue** ()
- virtual std::string **getQueueName** () const =0 throw (CMSEException)
Gets the name of this queue.
- virtual void **destroy** ()=0 throw (CMSEException)
*Destroy's the Temporary **Destination** (p. 1190) at the Provider.*

6.543.1 Detailed Description

Defines a Temporary **Queue** (p. 2157) based **Destination** (p. 1190). A **TemporaryQueue** (p. 2538) is a special type of **Queue** (p. 2157) **Destination** (p. 1190) that can only be consumed from the **Connection** (p. 941) which created it. TemporaryQueues are most commonly used as the reply to address for Message's that implement the request response pattern.

A **TemporaryQueue** (p. 2538) is guaranteed to exist at the Provider only for the lifetime of the **Connection** (p. 941) that created it.

Since:

1.0

6.543.2 Constructor & Destructor Documentation

6.543.2.1 virtual cms::TemporaryQueue::~~TemporaryQueue () [inline, virtual]

6.543.3 Member Function Documentation

6.543.3.1 virtual void cms::TemporaryQueue::destroy () throw (CMSEException)
[pure virtual]

Destroy's the Temporary **Destination** (p. 1190) at the Provider.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::commands::ActiveMQTempQueue** (p. 417).

6.543.3.2 virtual std::string cms::TemporaryQueue::getQueueName () const throw
(CMSEException) [pure virtual]

Gets the name of this queue.

Returns:

The queue name.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::commands::ActiveMQTempQueue** (p. 418).

The documentation for this class was generated from the following file:

- src/main/cms/TemporaryQueue.h

6.544 cms::TemporaryTopic Class Reference

Defines a Temporary **Topic** (p. 2571) based **Destination** (p. 1190).

#include <src/main/cms/TemporaryTopic.h> Inheritance diagram for cms::TemporaryTopic:

Public Member Functions

- virtual **~TemporaryTopic** ()
- virtual std::string **getTopicName** () const =0 throw (CMSEException)
Gets the name of this topic.
- virtual void **destroy** ()=0 throw (CMSEException)
*Destroy's the Temporary **Destination** (p. 1190) at the Provider.*

6.544.1 Detailed Description

Defines a Temporary **Topic** (p. 2571) based **Destination** (p. 1190). A **TemporaryTopic** (p. 2540) is a special type of **Topic** (p. 2571) **Destination** (p. 1190) that can only be consumed from the **Connection** (p. 941) which created it. TemporaryTopics are most commonly used as the reply to address for Message's that implement the request response pattern.

A **TemporaryTopic** (p. 2540) is guaranteed to exist at the Provider only for the lifetime of the **Connection** (p. 941) that created it.

Since:

1.0

6.544.2 Constructor & Destructor Documentation

6.544.2.1 virtual cms::TemporaryTopic::~~TemporaryTopic () [inline, virtual]

6.544.3 Member Function Documentation

6.544.3.1 virtual void cms::TemporaryTopic::destroy () throw (CMSEException)
[pure virtual]

Destroy's the Temporary **Destination** (p. 1190) at the Provider.

Exceptions:

CMSEException (p. 850)

Implemented in **activemq::commands::ActiveMQTempTopic** (p. 434).

6.544.3.2 `virtual std::string cms::TemporaryTopic::getTopicName () const throw (CMSException) [pure virtual]`

Gets the name of this topic.

Returns:

The topic name.

Exceptions:

CMSException (p. 850) - if an internal error occurs.

Implemented in **activemq::commands::ActiveMQTempTopic** (p. 435).

The documentation for this class was generated from the following file:

- `src/main/cms/TemporaryTopic.h`

6.545 cms::TextMessage Class Reference

Interface for a text message.

#include <src/main/cms/TextMessage.h> Inheritance diagram for cms::TextMessage:

Public Member Functions

- virtual `~TextMessage ()`
- virtual `std::string getText () const =0 throw (CMSEException)`
Gets the message character buffer.
- virtual `void setText (const char *msg)=0 throw (CMSEException)`
Sets the message contents, does not take ownership of the passed char, but copies it instead.*
- virtual `void setText (const std::string &msg)=0 throw (CMSEException)`
Sets the message contents.

6.545.1 Detailed Description

Interface for a text message. A **TextMessage** (p. 2542) can contain any Text based pay load such as an XML Document or other Text based document.

Like all Messages, a **TextMessage** (p. 2542) is received in Read-Only mode, any attempt to write to the **Message** (p. 1753) will result in a `MessageNotWritableException` being thrown until the `clearBody` method is called which will erase the contents and place the message back in a read / write mode.

Since:

1.0

6.545.2 Constructor & Destructor Documentation

6.545.2.1 `virtual cms::TextMessage::~~TextMessage () [inline, virtual]`

6.545.3 Member Function Documentation

6.545.3.1 `virtual std::string cms::TextMessage::getText () const throw (CMSEException) [pure virtual]`

Gets the message character buffer.

Returns:

The message character buffer.

Exceptions:

CMSEException (p. 850) - if an internal error occurs.

Implemented in **activemq::commands::ActiveMQTextMessage** (p. 451).

6.545.3.2 virtual void cms::TextMessage::setText (const std::string & *msg*) throw (CMSException) [pure virtual]

Sets the message contents.

Parameters:

msg The message buffer.

Exceptions:

CMSException (p. 850) - if an internal error occurs.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode..

Implemented in **activemq::commands::ActiveMQTextMessage** (p. 451).

6.545.3.3 virtual void cms::TextMessage::setText (const char * *msg*) throw (CMSException) [pure virtual]

Sets the message contents, does not take ownership of the passed char*, but copies it instead.

Parameters:

msg The message buffer.

Exceptions:

CMSException (p. 850) - if an internal error occurs.

MessageNotWriteableException (p. 1877) - if the message is in read-only mode..

Implemented in **activemq::commands::ActiveMQTextMessage** (p. 451).

The documentation for this class was generated from the following file:

- src/main/cms/**TextMessage.h**

6.546 decaf::lang::Thread Class Reference

Basic thread class - mimics the Java **Thread** (p. 2544).

#include <src/main/decaf/lang/Thread.h> Inheritance diagram for decaf::lang::Thread:

Public Member Functions

- **Thread** ()
default Constructor
- **Thread** (**Runnable** *task)
Constructor.
- virtual ~**Thread** ()
- virtual void **start** () throw (Exception)
Creates a system thread and starts it in a joinable mode.
- virtual void **join** () throw (Exception)
Wait til the thread exits.
- virtual void **run** ()
Default implementation of the run method - does nothing.

Static Public Member Functions

- static void **sleep** (int millisecs)
Halts execution of the calling thread for a specified no of millisec.
- static void **yield** ()
Causes the currently executing thread object to temporarily pause and allow other threads to execute.
- static unsigned long **getId** ()
*Obtains the **Thread** (p. 2544) Id of the current thread.*

6.546.1 Detailed Description

Basic thread class - mimics the Java **Thread** (p. 2544). Derived classes may implement the run method, or this class can be used as is with a provided **Runnable** (p. 2256) delegate.

6.546.2 Constructor & Destructor Documentation

6.546.2.1 decaf::lang::Thread::Thread ()

default Constructor

6.546.2.2 decaf::lang::Thread::Thread (Runnable * *task*)

Constructor.

Parameters:

task the **Runnable** (p. 2256) that this thread manages

6.546.2.3 virtual decaf::lang::Thread::~~Thread () [virtual]**6.546.3 Member Function Documentation****6.546.3.1 static unsigned long decaf::lang::Thread::getId () [static]**

Obtains the **Thread** (p. 2544) Id of the current thread.

Returns:

Thread (p. 2544) Id

6.546.3.2 virtual void decaf::lang::Thread::join () throw (Exception) [virtual]

Wait til the thread exits. This is when the **run()** (p. 2545) method has returned or has thrown an exception.

6.546.3.3 virtual void decaf::lang::Thread::run () [inline, virtual]

Default implementation of the run method - does nothing.

Implements **decaf::lang::Runnable** (p. 2256).

Reimplemented in **activemq::transport::mock::InternalCommandListener** (p. 1458), and **decaf::util::concurrent::PooledThread** (p. 2033).

6.546.3.4 static void decaf::lang::Thread::sleep (int *millisecs*) [static]

Halts execution of the calling thread for a specified no of millisec. Note that this method is a static method that applies to the calling thread and not to the thread object.

Parameters:

millisecs time in milliseconds to sleep

6.546.3.5 virtual void decaf::lang::Thread::start () throw (Exception) [virtual]

Creates a system thread and starts it in a joinable mode. Upon creation, the **run()** (p. 2545) method of either this object or the provided **Runnable** (p. 2256) object will be invoked in the context of this thread.

Exceptions:

runtime_error is thrown if the system could not start the thread.

6.546.3.6 static void decaf::lang::Thread::yield () [static]

Causes the currently executing thread object to temporarily pause and allow other threads to execute.

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Thread.h`

6.547 decaf::util::concurrent::ThreadFactory Class Reference

public interface **ThreadFactory** (p. 2547)

```
#include <src/main/decaf/util/concurrent/ThreadFactory.h>
```

Public Member Functions

- virtual **~ThreadFactory** ()
- virtual Thread * **newThread** (Runnable *r)=0

Constructs a new Thread.

6.547.1 Detailed Description

public interface **ThreadFactory** (p. 2547) An object that creates new threads on demand. Using thread factories removes hardwiring of calls to new Thread, enabling applications to use special thread subclasses, priorities, etc.

The simplest implementation of this interface is just:

```
class SimpleThreadFactory : public ThreadFactory (p. 2547) { public: Thread* newThread(Runnable* r) (p. 2547) { return new Thread(r); } }
```

The Executors.defaultThreadFactory() method provides a more useful simple implementation, that sets the created thread context to known values before returning it.

Since:

1.0

6.547.2 Constructor & Destructor Documentation

6.547.2.1 virtual decaf::util::concurrent::ThreadFactory::~~ThreadFactory ()
[inline, virtual]

6.547.3 Member Function Documentation

6.547.3.1 virtual Thread* decaf::util::concurrent::ThreadFactory::newThread (Runnable * r) [pure virtual]

Constructs a new Thread. Implementations may also initialize priority, name, daemon status, ThreadGroup, etc.

Parameters:

r - a runnable to be executed by new thread instance

Returns:

constructed thread, or null if the request to create a thread is rejected

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/ThreadFactory.h`

6.548 decaf::util::concurrent::ThreadPool Class Reference

Defines a Thread Pool object that implements the functionality of pooling threads to perform user tasks.

#include <src/main/decaf/util/concurrent/ThreadPool.h> Inheritance diagram for decaf::util::concurrent::ThreadPool:

Public Types

- typedef std::pair< lang::Runnable *, TaskListener * > Task

Public Member Functions

- **ThreadPool** ()
- virtual **~ThreadPool** ()
- virtual void **queueTask** (Task task) throw (lang::Exception)
Queue (p. 2154) a task to be completed by one of the Pooled Threads.
- virtual **Task dequeueTask** () throw (lang::Exception)
DeQueue a task to be completed by one of the Pooled Threads.
- virtual std::size_t **getPoolSize** () const
Returns the current number of Threads in the Pool, this is how many there are now, not how many are active or the max number that might exist.
- virtual std::size_t **getBacklog** () const
Returns the current backlog of items in the tasks queue, this is how much work is still waiting to get done.
- virtual void **reserve** (std::size_t size)
Ensures that there is at least the specified number of Threads allocated to the pool.
- virtual std::size_t **getMaxThreads** () const
Get the Max Number of Threads this Pool can contain.
- virtual void **setMaxThreads** (std::size_t maxThreads)
Sets the Max number of threads this pool can contain.
- virtual std::size_t **getBlockSize** () const
Gets the Max number of threads that can be allocated at a time when new threads are needed.
- virtual void **setBlockSize** (std::size_t blockSize)
Sets the Max number of Threads that can be allocated at a time when the Thread Pool determines that more Threads are needed.
- virtual std::size_t **getFreeThreadCount** () const
Returns the current number of available threads in the pool, threads that are performing a user task are considered unavailable.

- virtual void **onTaskStarted** (**PooledThread** *thread)

Called by a pooled thread when it is about to begin executing a new task.

- virtual void **onTaskCompleted** (**PooledThread** *thread)

Called by a pooled thread when it has completed a task and is going back to waiting for another task to run, this will increment the free threads counter.

- virtual void **onTaskException** (**PooledThread** *thread, **lang::Exception** &ex)

*Called by a pooled thread when it has encountered an exception while running a user task, after receiving this notification the callee should assume that the **PooledThread** (p. 2032) is now no longer running.*

Static Public Member Functions

- static **ThreadPool** * **getInstance** ()

Return the one and only Thread Pool instance.

Static Public Attributes

- static const size_t **DEFAULT__MAX__POOL__SIZE** = 10
- static const size_t **DEFAULT__MAX__BLOCK__SIZE** = 3

6.548.1 Detailed Description

Defines a Thread Pool object that implements the functionality of pooling threads to perform user tasks. The Thread Pool has max size that it will grow to. The thread pool allocates threads in blocks. When there are no waiting worker threads and a task is queued then a new batch is allocated. The user can specify the size of the blocks, otherwise a default value is used.

When the user queues a task they must also queue a listener to be notified when the task has completed, this provides the user with a mechanism to know when a task object can be freed.

To have the Thread Pool perform a task, the user enqueue's an object that implements the **Runnable** interface and one of the worker threads will execute it in its thread context.

6.548.2 Member Typedef Documentation

6.548.2.1 `typedef std::pair<lang::Runnable*, TaskListener*>
decaf::util::concurrent::ThreadPool::Task`

6.548.3 Constructor & Destructor Documentation

6.548.3.1 `decaf::util::concurrent::ThreadPool::ThreadPool ()`

6.548.3.2 `virtual decaf::util::concurrent::ThreadPool::~~ThreadPool () [virtual]`

6.548.4 Member Function Documentation

6.548.4.1 `virtual Task decaf::util::concurrent::ThreadPool::deQueueTask () throw (
lang::Exception) [virtual]`

DeQueue a task to be completed by one of the Pooled Threads. A caller of this method will block until there is something in the tasks queue, therefore care must be taken when calling this function. Normally clients of **ThreadPool** (p. 2549) don't use this, only the **PooledThread** (p. 2032) objects owned by this **ThreadPool** (p. 2549).

Returns:

object that derives from Runnable

Exceptions:

ActiveMQException

6.548.4.2 `virtual std::size_t decaf::util::concurrent::ThreadPool::getBacklog ()
const [inline, virtual]`

Returns the current backlog of items in the tasks queue, this is how much work is still waiting to get done.

Returns:

number of outstanding tasks.

6.548.4.3 `virtual std::size_t decaf::util::concurrent::ThreadPool::getBlockSize ()
const [inline, virtual]`

Gets the Max number of threads that can be allocated at a time when new threads are needed.

Returns:

max Thread Block Size

6.548.4.4 `virtual std::size_t de-
caf::util::concurrent::ThreadPool::getFreeThreadCount ()
const [inline, virtual]`

Returns the current number of available threads in the pool, threads that are performing a user task are considered unavailable. This value could change immediately after calling as Threads

could finish right after and be available again. This is informational only.

Returns:

total free threads

6.548.4.5 `static ThreadPool* decaf::util::concurrent::ThreadPool::getInstance ()`
[static]

Return the one and only Thread Pool instance.

Returns:

The Thread Pool Pointer

6.548.4.6 `virtual std::size_t decaf::util::concurrent::ThreadPool::getMaxThreads ()`
`const` [inline, virtual]

Get the Max Number of Threads this Pool can contain.

Returns:

max size

6.548.4.7 `virtual std::size_t decaf::util::concurrent::ThreadPool::getPoolSize ()`
`const` [inline, virtual]

Returns the current number of Threads in the Pool, this is how many there are now, not how many are active or the max number that might exist.

Returns:

integer number of threads in existence.

6.548.4.8 `virtual void decaf::util::concurrent::ThreadPool::onTaskCompleted`
`(PooledThread * thread)` [virtual]

Called by a pooled thread when it has completed a task and is going back to waiting for another task to run, this will increment the free threads counter.

Parameters:

thread Pointer the the Pooled Thread that is making this call.

Implements `decaf::util::concurrent::PooledThreadListener` (p. 2035).

6.548.4.9 `virtual void decaf::util::concurrent::ThreadPool::onTaskException`
`(PooledThread * thread, lang::Exception & ex)` [virtual]

Called by a pooled thread when it has encountered an exception while running a user task, after receiving this notification the callee should assume that the `PooledThread` (p. 2032) is now no longer running.

Parameters:

thread Pointer to the Pooled Thread that is making this call
ex The Exception that occurred.

Implements **decaf::util::concurrent::PooledThreadListener** (p. 2036).

6.548.4.10 virtual void decaf::util::concurrent::ThreadPool::onTaskStarted (PooledThread * *thread*) [virtual]

Called by a pooled thread when it is about to begin executing a new task. This will decrement the available threads counter so that this object knows when there are no more free threads and must create new ones.

Parameters:

thread Pointer to the Pooled Thread that is making this call

Implements **decaf::util::concurrent::PooledThreadListener** (p. 2036).

6.548.4.11 virtual void decaf::util::concurrent::ThreadPool::queueTask (Task *task*) throw (lang::Exception) [virtual]

Queue (p. 2154) a task to be completed by one of the Pooled Threads. tasks are serviced as soon as a PooledThread (p. 2032) is available to run it.

Parameters:

task object that derives from Runnable

Exceptions:

ActiveMQException

6.548.4.12 virtual void decaf::util::concurrent::ThreadPool::reserve (std::size_t *size*) [virtual]

Ensures that there is at least the specified number of Threads allocated to the pool. If the size is greater than the MAX number of threads in the pool, then only MAX threads are reserved. If the size is smaller than the number of threads currently in the pool, than nothing is done.

Parameters:

size the number of threads to reserve.

6.548.4.13 virtual void decaf::util::concurrent::ThreadPool::setBlockSize (std::size_t *blockSize*) [virtual]

Sets the Max number of Threads that can be allocated at a time when the Thread Pool determines that more Threads are needed.

Parameters:

blockSize Max Thread Block Size

6.548.4.14 `virtual void decaf::util::concurrent::ThreadPool::setMaxThreads`
 `(std::size_t maxThreads)` [virtual]

Sets the Max number of threads this pool can contain. if this value is smaller than the current size of the pool nothing is done.

Parameters:

maxThreads total number of threads that can be pooled

6.548.5 Field Documentation

6.548.5.1 `const size_t decaf::util::concurrent::ThreadPool::DEFAULT_MAX_BLOCK_SIZE = 3` [static]

6.548.5.2 `const size_t decaf::util::concurrent::ThreadPool::DEFAULT_MAX_POOL_SIZE = 10` [static]

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/ThreadPool.h`

6.549 decaf::lang::Throwable Class Reference

This class represents an error that has occurred.

#include <src/main/decaf/lang/Throwable.h> Inheritance diagram for decaf::lang::Throwable:

Public Member Functions

- **Throwable** () throw ()
- virtual **~Throwable** () throw ()
- virtual std::string **getMessage** () const =0
Gets the cause of the error, if no message was provided to the instance of this interface but a cause was then the value cause.getMessage is then returned.
- virtual const std::exception * **getCause** () const =0
*Gets the exception that caused this one to be thrown, this allows for chaining of **exceptions** (p. 104) in the case of a method that throws only a particular exception but wishes to allow for the real causal exception to be passed only in case the caller knows about that type of exception and wishes to respond to it.*
- virtual void **initCause** (const std::exception *cause)=0
Initializes the contained cause exception with the one given.
- virtual void **setMark** (const char *file, const int lineNumber)=0
Adds a file/line number to the stack trace.
- virtual **Throwable** * **clone** () const =0
Clones this exception.
- virtual std::vector< std::pair< std::string, int > > **getStackTrace** () const =0
Provides the stack trace for every point where this exception was caught, marked, and rethrown.
- virtual void **printStackTrace** () const =0
Prints the stack trace to std::err.
- virtual void **printStackTrace** (std::ostream &stream) const =0
Prints the stack trace to the given output stream.
- virtual std::string **getStackTraceString** () const =0
Gets the stack trace as one contiguous string.

6.549.1 Detailed Description

This class represents an error that has occurred. All Exceptions in the Decaf library should extend from this or from the **Exception** (p. 1268) class in order to ensure that all Decaf Exceptions are interchangeable with the std::exception class.

Throwable (p.2555) can wrap another **Throwable** (p.2555) as the cause if the error being thrown. The user can inspect the cause by calling `getCause`, the pointer returned is the property of the **Throwable** (p.2555) instance and will be deleted when it is deleted or goes out of scope.

Since:

1.0

6.549.2 Constructor & Destructor Documentation

6.549.2.1 `decaf::lang::Throwable::Throwable () throw () [inline]`

6.549.2.2 `virtual decaf::lang::Throwable::~~Throwable () throw () [inline, virtual]`

6.549.3 Member Function Documentation

6.549.3.1 `virtual Throwable* decaf::lang::Throwable::clone () const [pure virtual]`

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

Copy of this **Exception** (p.1268) object

Implemented in `activemq::exceptions::ActiveMQException` (p.253), `activemq::exceptions::BrokerException` (p.590), `decaf::io::EOFException` (p.1267), `decaf::io::InterruptedIOException` (p.1464), `decaf::io::IOException` (p.1479), `decaf::io::UTFDataFormatException` (p.2685), `decaf::lang::Exception` (p.1271), `decaf::lang::exceptions::ClassCastException` (p.837), `decaf::lang::exceptions::IllegalArgumentException` (p.1395), `decaf::lang::exceptions::IllegalMonitorStateException` (p.1398), `decaf::lang::exceptions::IllegalStateException` (p.1402), `decaf::lang::exceptions::IndexOutOfBoundsException` (p.1405), `decaf::lang::exceptions::InterruptedException` (p.1461), `decaf::lang::exceptions::InvalidStateException` (p.1476), `decaf::lang::exceptions::NoSuchElementException` (p.1947), `decaf::lang::exceptions::NullPointerException` (p.1953), `decaf::lang::exceptions::NumberFormatException` (p.1959), `decaf::lang::exceptions::RuntimeException` (p.2261), `decaf::lang::exceptions::UnsupportedOperationException` (p.2637), `decaf::net::BindException` (p.565), `decaf::net::ConnectException` (p.940), `decaf::net::HttpRetryException` (p.1392), `decaf::net::MalformedURLException` (p.1688), `decaf::net::NoRouteToHostException` (p.1941), `decaf::net::PortUnreachableException` (p.2039), `decaf::net::ProtocolException` (p.2152), `decaf::net::SocketException` (p.2380), `decaf::net::SocketTimeoutException` (p.2397), `decaf::net::UnknownHostException` (p.2631), `decaf::net::UnknownServiceException` (p.2634), `decaf::net::URISyntaxException` (p.2667), `decaf::nio::BufferOverflowException` (p.660), `decaf::nio::BufferUnderflowException` (p.663), `decaf::nio::InvalidMarkException` (p.1472), `decaf::nio::ReadOnlyBufferException` (p.2169), `decaf::util::concurrent::BrokenBarrierException` (p.585), `decaf::util::concurrent::CancellationException` (p.786), `decaf::util::concurrent::ExecutionException` (p.1293),

cafe::util::concurrent::RejectedExecutionException (p. 2176), and **decaf::util::concurrent::TimeoutException** (p. 2561).

6.549.3.2 virtual const std::exception* decaf::lang::Throwable::getCause () const
[pure virtual]

Gets the exception that caused this one to be thrown, this allows for chaining of **exceptions** (p. 104) in the case of a method that throws only a particular exception but wishes to allow for the real causal exception to be passed only in case the caller knows about that type of exception and wishes to respond to it.

Returns:

a const pointer reference to the causal exception, if there was no cause associated with this exception then NULL is returned.

Implemented in **decaf::lang::Exception** (p. 1272).

6.549.3.3 virtual std::string decaf::lang::Throwable::getMessage () const [pure virtual]

Gets the cause of the error, if no message was provided to the instance of this interface but a cause was then the value cause.getMessage is then returned.

Returns:

string errors message

Implemented in **decaf::lang::Exception** (p. 1272).

6.549.3.4 virtual std::vector< std::pair< std::string, int> > decaf::lang::Throwable::getStackTrace () const [pure virtual]

Provides the stack trace for every point where this exception was caught, marked, and rethrown.

Returns:

vector containing stack trace strings

Implemented in **decaf::lang::Exception** (p. 1272).

6.549.3.5 virtual std::string decaf::lang::Throwable::getStackTraceString () const
[pure virtual]

Gets the stack trace as one contiguous string.

Returns:

string with formatted stack trace data

Implemented in **decaf::lang::Exception** (p. 1272).

6.549.3.6 `virtual void decaf::lang::Throwable::initCause (const std::exception *
cause)` [pure virtual]

Initializes the contained cause exception with the one given. A copy is made to avoid ownership issues.

Parameters:

cause The exception that was the cause of this one.

Implemented in `decaf::lang::Exception` (p. 1272).

6.549.3.7 `virtual void decaf::lang::Throwable::printStackTrace (std::ostream &
stream) const` [pure virtual]

Prints the stack trace to the given output stream.

Parameters:

stream the target output stream.

Implemented in `decaf::lang::Exception` (p. 1273).

6.549.3.8 `virtual void decaf::lang::Throwable::printStackTrace () const` [pure virtual]

Prints the stack trace to std::err.

Implemented in `decaf::lang::Exception` (p. 1273).

6.549.3.9 `virtual void decaf::lang::Throwable::setMark (const char * file, const int
lineNumber)` [pure virtual]

Adds a file/line number to the stack trace.

Parameters:

file The name of the file calling this method (use `__FILE__`).

lineNumber The line number in the calling file (use `__LINE__`).

Implemented in `decaf::lang::Exception` (p. 1273).

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/Throwable.h`

6.550 decaf::util::concurrent::TimeoutException Class Reference

#include <src/main/decaf/util/concurrent/TimeoutException.h> Inheritance diagram for decaf::util::concurrent::TimeoutException:

Public Member Functions

- **TimeoutException** () throw ()
Default Constructor.
- **TimeoutException** (const **decaf::lang::Exception** &ex) throw ()
Conversion Constructor from some other Exception.
- **TimeoutException** (const **TimeoutException** &ex) throw ()
Copy Constructor.
- **TimeoutException** (const std::exception *cause) throw ()
Constructor.
- **TimeoutException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **TimeoutException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **TimeoutException** * clone () const
Clones this exception.
- virtual ~**TimeoutException** () throw ()

6.550.1 Constructor & Destructor Documentation

6.550.1.1 decaf::util::concurrent::TimeoutException::TimeoutException () throw () [inline]

Default Constructor.

6.550.1.2 decaf::util::concurrent::TimeoutException::TimeoutException (const decaf::lang::Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.550.1.3 `decaf::util::concurrent::TimeoutException::TimeoutException (const TimeoutException & ex) throw ()` [inline]

Copy Constructor.

Parameters:

ex The exception to copy from.

References `decaf::lang::Exception::Exception()`.

6.550.1.4 `decaf::util::concurrent::TimeoutException::TimeoutException (const std::exception * cause) throw ()` [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.550.1.5 `decaf::util::concurrent::TimeoutException::TimeoutException (const char * file, const int lineNumber, const char * msg, ...) throw ()` [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The string message to report

... list of primitives that are formatted into the message

6.550.1.6 `decaf::util::concurrent::TimeoutException::TimeoutException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw ()` [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The string message to report

... list of primitives that are formatted into the message

6.550.1.7 virtual decaf::util::concurrent::TimeoutException::~~TimeoutException ()
throw () [inline, virtual]

6.550.2 Member Function Documentation

6.550.2.1 virtual TimeoutException* decaf::util::concurrent::TimeoutException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new **TimeoutException** (p.2559) that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p.1271).

The documentation for this class was generated from the following file:

- src/main/decaf/util/concurrent/**TimeoutException.h**

6.551 decaf::util::concurrent::TimeUnit Class Reference

A **TimeUnit** (p. 2562) represents time durations at a given unit of granularity and provides utility methods to convert across units, and to perform timing and delay operations in these units.

#include <src/main/decaf/util/concurrent/TimeUnit.h> Inheritance diagram for decaf::util::concurrent::TimeUnit:

Public Member Functions

- virtual **~TimeUnit** ()
- long long **convert** (long long sourceDuration, const **TimeUnit** &sourceUnit) const
Convert the given time duration in the given unit to this unit.
- long long **toNanos** (long long duration) const
Equivalent to `NANOSECONDS.convert(duration, this)`.
- long long **toMicros** (long long duration) const
Equivalent to `MICROSECONDS.convert(duration, this)`.
- long long **toMillis** (long long duration) const
Equivalent to `MILLISECONDS.convert(duration, this)`.
- long long **toSeconds** (long long duration) const
Equivalent to `SECONDS.convert(duration, this)`.
- long long **toMinutes** (long long duration) const
Equivalent to `MINUTES.convert(duration, this)`.
- long long **toHours** (long long duration) const
Equivalent to `HOURS.convert(duration, this)`.
- long long **toDays** (long long duration) const
Equivalent to `DAYS.convert(duration, this)`.
- void **timedWait** (**Synchronizable** *obj, long long timeout) const
Perform a timed `Object.wait` using this time unit.
- void **sleep** (long long timeout) const
Perform a timed `Thread.join` using this time unit.
- virtual std::string **toString** () const
*Converts the **TimeUnit** (p. 2562) type to the Name of the **TimeUnit** (p. 2562).*
- virtual int **compareTo** (const **TimeUnit** &value) const
Compares this object with the specified object for order.
- virtual bool **equals** (const **TimeUnit** &value) const

- virtual bool **operator==** (const **TimeUnit** &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **TimeUnit** &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.

Static Public Member Functions

- static const **TimeUnit** & **valueOf** (const std::string &name) throw (decaf::lang::exceptions::IllegalArgumentException)
*Returns the **TimeUnit** (p. 2562) constant of this type with the specified name.*

Static Public Attributes

- static const **TimeUnit** **NANOSECONDS**
*The Actual **TimeUnit** (p. 2562) enumerations.*
- static const **TimeUnit** **MICROSECONDS**
- static const **TimeUnit** **MILLISECONDS**
- static const **TimeUnit** **SECONDS**
- static const **TimeUnit** **MINUTES**
- static const **TimeUnit** **HOURS**
- static const **TimeUnit** **DAYS**
- static const **TimeUnit** *const **values** []
*The An Array of **TimeUnit** (p. 2562) Instances.*

Protected Member Functions

- **TimeUnit** (int index, const std::string &name)
Hidden Constructor, this class can not be instantiated directly.

6.551.1 Detailed Description

A **TimeUnit** (p. 2562) represents time durations at a given unit of granularity and provides utility methods to convert across units, and to perform timing and delay operations in these units. A **TimeUnit** (p. 2562) does not maintain time information, but only helps organize and use time representations that may be maintained separately across various contexts. A nanosecond is defined as one thousandth of a microsecond, a microsecond as one thousandth of a millisecond, a millisecond as one thousandth of a second, a minute as sixty seconds, an hour as sixty minutes, and a day as twenty four hours.

A **TimeUnit** (p. 2562) is mainly used to inform time-based methods how a given timing parameter should be interpreted. For example, the following code will timeout in 50 milliseconds if the lock is not available:

```
Lock (p. 1616) lock = ...; if ( lock.tryLock( 50, TimeUnit.MILLISECONDS (p. 2570) ) ) ...
```

while this code will timeout in 50 seconds:

```
Lock (p. 1616) lock = ...; if ( lock.tryLock( 50, TimeUnit.SECONDS (p. 2570) ) ) ...
```

Note however, that there is no guarantee that a particular timeout implementation will be able to notice the passage of time at the same granularity as the given **TimeUnit** (p. 2562).

6.551.2 Constructor & Destructor Documentation

6.551.2.1 **decaf::util::concurrent::TimeUnit::TimeUnit** (int *index*, const std::string & *name*) [protected]

Hidden Constructor, this class can not be instantiated directly.

Parameters:

index - Index into the Time Unit set.

name - Name of the unit type being represented.

6.551.2.2 **virtual decaf::util::concurrent::TimeUnit::~~TimeUnit** () [inline, virtual]

6.551.3 Member Function Documentation

6.551.3.1 **virtual int decaf::util::concurrent::TimeUnit::compareTo** (const **TimeUnit** & *value*) const [virtual]

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

In the foregoing description, the notation `sgn(expression)` designates the mathematical signum function, which is defined to return one of -1, 0, or 1 according to whether the value of expression is negative, zero or positive. The implementor must ensure `sgn(x.compareTo(y)) == -sgn(y.compareTo(x))` for all x and y. (This implies that `x.compareTo(y)` must throw an exception iff `y.compareTo(x)` throws an exception.)

The implementor must also ensure that the relation is transitive: `(x.compareTo(y)>0 && y.compareTo(z)>0)` implies `x.compareTo(z)>0`.

Finally, the implementor must ensure that `x.compareTo(y)==0` implies that `sgn(x.compareTo(z)) == sgn(y.compareTo(z))`, for all z.

It is strongly recommended, but not strictly required that `(x.compareTo(y)==0) == (x.equals(y))`. Generally speaking, any class that implements the Comparable interface and violates this condition should clearly indicate this fact. The recommended language is "Note: this class has a natural ordering that is inconsistent with equals."

Parameters:

value - the Object to be compared.

Returns:

a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

6.551.3.2 `long long decaf::util::concurrent::TimeUnit::convert (long long sourceDuration, const TimeUnit & sourceUnit) const`

Convert the given time duration in the given unit to this unit. Conversions from finer to coarser granularities truncate, so lose precision. For example converting 999 milliseconds to seconds results in 0. Conversions from coarser to finer granularities with arguments that would numerically overflow saturate to Long.MIN_VALUE if negative or Long.MAX_VALUE if positive.

For example, to convert 10 minutes to milliseconds, use: TimeUnit.MILLISECONDS.convert(10L, TimeUnit.MINUTES (p. 2570))

Parameters:

sourceDuration - Duration value to convert.

sourceUnit - Unit type of the source duration.

Returns:

the converted duration in this unit, or Long.MIN_VALUE if conversion would negatively overflow, or Long.MAX_VALUE if it would positively overflow.

6.551.3.3 `virtual bool decaf::util::concurrent::TimeUnit::equals (const TimeUnit & value) const [virtual]`**Returns:**

true if this value is considered equal to the passed value.

6.551.3.4 `virtual bool decaf::util::concurrent::TimeUnit::operator< (const TimeUnit & value) const [virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.551.3.5 `virtual bool decaf::util::concurrent::TimeUnit::operator== (const TimeUnit & value) const [virtual]`

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.551.3.6 void decaf::util::concurrent::TimeUnit::sleep (long long *timeout*) const

Perform a timed `Thread.join` using this time unit. This is a convenience method that converts time arguments into the form required by the `Thread.join` method.

Parameters:

thread the thread to wait for

timeout the maximum time to wait

Exceptions:

InterruptedException if interrupted while waiting.

See also:

`Thread::join(long, int)` Perform a `Thread.sleep` using this unit. This is a convenience method that converts time arguments into the form required by the `Thread.sleep` method.

Parameters:

timeout the minimum time to sleep

See also:

`Thread::sleep`

6.551.3.7 void decaf::util::concurrent::TimeUnit::timedWait (Synchronizable * *obj*, long long *timeout*) const

Perform a timed `Object.wait` using this time unit. This is a convenience method that converts timeout arguments into the form required by the `Object.wait` method.

For example, you could implement a blocking poll method (see `BlockingQueue.poll (p. ??)`) using:

```
public synchronized Object poll(long timeout, TimeUnit unit) throws InterruptedException {
    while (empty) {
        unit.timedWait(this, timeout);
        ...
    }
}
```

Parameters:

obj the object to wait on

timeout the maximum time to wait.

Exceptions:

InterruptedException if interrupted while waiting.

See also:

`Synchronizable::wait(long, int)`

6.551.3.8 long long decaf::util::concurrent::TimeUnit::toDays (long long *duration*) const [inline]

Equivalent to DAYS.convert(duration, this).

Parameters:

duration the duration

Returns:

the converted duration.

See also:

convert (p. 2565)

6.551.3.9 long long decaf::util::concurrent::TimeUnit::toHours (long long *duration*) const [inline]

Equivalent to HOURS.convert(duration, this).

Parameters:

duration the duration

Returns:

the converted duration.

See also:

convert (p. 2565)

6.551.3.10 long long decaf::util::concurrent::TimeUnit::toMicros (long long *duration*) const [inline]

Equivalent to MICROSECONDS.convert(duration, this).

Parameters:

duration the duration

Returns:

the converted duration, or Long.MIN_VALUE if conversion would negatively overflow, or Long.MAX_VALUE if it would positively overflow.

See also:

convert (p. 2565)

6.551.3.11 `long long decaf::util::concurrent::TimeUnit::toMillis (long long duration) const [inline]`

Equivalent to `MILLISECONDS.convert(duration, this)`.

Parameters:

duration the duration

Returns:

the converted duration, or `Long.MIN_VALUE` if conversion would negatively overflow, or `Long.MAX_VALUE` if it would positively overflow.

See also:

`convert` (p. 2565)

6.551.3.12 `long long decaf::util::concurrent::TimeUnit::toMinutes (long long duration) const [inline]`

Equivalent to `MINUTES.convert(duration, this)`.

Parameters:

duration the duration

Returns:

the converted duration.

See also:

`convert` (p. 2565)

6.551.3.13 `long long decaf::util::concurrent::TimeUnit::toNanos (long long duration) const [inline]`

Equivalent to `NANOSECONDS.convert(duration, this)`.

Parameters:

duration the duration

Returns:

the converted duration, or `Long.MIN_VALUE` if conversion would negatively overflow, or `Long.MAX_VALUE` if it would positively overflow.

See also:

`convert` (p. 2565)

6.551.3.14 `long long decaf::util::concurrent::TimeUnit::toSeconds (long long duration) const [inline]`

Equivalent to `SECONDS.convert(duration, this)`.

Parameters:

duration the duration

Returns:

the converted duration.

See also:

`convert` (p. 2565)

6.551.3.15 `virtual std::string decaf::util::concurrent::TimeUnit::toString () const [virtual]`

Converts the **TimeUnit** (p. 2562) type to the Name of the **TimeUnit** (p. 2562).

Returns:

String name of the **TimeUnit** (p. 2562)

6.551.3.16 `static const TimeUnit& decaf::util::concurrent::TimeUnit::valueOf (const std::string & name) throw (decaf::lang::exceptions::IllegalArgumentException) [static]`

Returns the **TimeUnit** (p. 2562) constant of this type with the specified name. The string must match exactly an identifier used to declare an **TimeUnit** (p. 2562) constant in this type. (Extraaneous whitespace characters are not permitted.)

Parameters:

name The Name of the **TimeUnit** (p. 2562) constant to be returned.

Returns:

A constant reference to the **TimeUnit** (p. 2562) Constant with the given name.

Exceptions:

IllegalArgumentException if this enum type has no constant with the specified name

6.551.4 Field Documentation

6.551.4.1 `const TimeUnit decaf::util::concurrent::TimeUnit::DAYS` [static]

6.551.4.2 `const TimeUnit decaf::util::concurrent::TimeUnit::HOURS` [static]

6.551.4.3 `const TimeUnit decaf::util::concurrent::TimeUnit::MICROSECONDS`
[static]

6.551.4.4 `const TimeUnit decaf::util::concurrent::TimeUnit::MILLISECONDS`
[static]

6.551.4.5 `const TimeUnit decaf::util::concurrent::TimeUnit::MINUTES` [static]

6.551.4.6 `const TimeUnit decaf::util::concurrent::TimeUnit::NANOSECONDS`
[static]

The Actual **TimeUnit** (p. 2562) enumerations.

6.551.4.7 `const TimeUnit decaf::util::concurrent::TimeUnit::SECONDS` [static]

6.551.4.8 `const TimeUnit* const decaf::util::concurrent::TimeUnit::values[]`
[static]

The An Array of **TimeUnit** (p. 2562) Instances.

The documentation for this class was generated from the following file:

- `src/main/decaf/util/concurrent/TimeUnit.h`

6.552 cms::Topic Class Reference

An interface encapsulating a provider-specific topic name.

#include <src/main/cms/Topic.h> Inheritance diagram for cms::Topic:

Public Member Functions

- virtual `~Topic ()`
- virtual `std::string getTopicName () const =0 throw (CMSEException)`
Gets the name of this topic.

6.552.1 Detailed Description

An interface encapsulating a provider-specific topic name. A **Topic** (p.2571) is a Publish / Subscribe type **Destination** (p.1190). All Messages sent to a **Topic** (p.2571) are broadcast to all Subscribers of that **Topic** (p.2571) unless the Subscriber defines a **Message** (p.1753) selector that filters out that **Message** (p.1753).

Since:

1.0

6.552.2 Constructor & Destructor Documentation

6.552.2.1 virtual `cms::Topic::~~Topic ()` [inline, virtual]

6.552.3 Member Function Documentation

6.552.3.1 virtual `std::string cms::Topic::getTopicName () const throw (CMSEException)` [pure virtual]

Gets the name of this topic.

Returns:

The topic name.

Exceptions:

CMSEException (p. 850) - If an internal error occurs.

Implemented in `activemq::commands::ActiveMQTopic` (p.468).

The documentation for this class was generated from the following file:

- `src/main/cms/Topic.h`

6.553 activemq::state::Tracked Class Reference

#include <src/main/activemq/state/Tracked.h> Inheritance diagram for activemq::state::Tracked:

Public Member Functions

- **Tracked** ()
- **Tracked** (const **Pointer**< **decaf::lang::Runnable** > &runnable)
- virtual **~Tracked** ()
- void **onResponse** ()
- bool **isWaitingForResponse** () const

6.553.1 Constructor & Destructor Documentation

6.553.1.1 **activemq::state::Tracked::Tracked** () [inline]

6.553.1.2 **activemq::state::Tracked::Tracked** (const **Pointer**< **decaf::lang::Runnable** > & *runnable*)

6.553.1.3 virtual **activemq::state::Tracked::~~Tracked** () [inline, virtual]

6.553.2 Member Function Documentation

6.553.2.1 bool **activemq::state::Tracked::isWaitingForResponse** () const [inline]

6.553.2.2 void **activemq::state::Tracked::onResponse** ()

The documentation for this class was generated from the following file:

- src/main/activemq/state/**Tracked.h**

6.554 activemq::commands::TransactionId Class Reference

#include <src/main/activemq/commands/TransactionId.h> Inheritance diagram for activemq::commands::TransactionId:

Public Types

- typedef decaf::lang::PointerComparator< TransactionId > COMPARATOR

Public Member Functions

- TransactionId ()
- TransactionId (const TransactionId &other)
- virtual ~TransactionId ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual TransactionId * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const DataStructure *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
Returns a string containing the information for this DataStructure (p. 1174) such as its type and value of its elements.
- virtual bool **equals** (const DataStructure *value) const
Compares the DataStructure (p. 1174) passed in to this one, and returns if they are equivalent.
- virtual int **compareTo** (const TransactionId &value) const
- virtual bool **equals** (const TransactionId &value) const
- virtual bool **operator==** (const TransactionId &value) const
- virtual bool **operator<** (const TransactionId &value) const
- TransactionId & **operator=** (const TransactionId &other)

Static Public Attributes

- static const unsigned char ID_TRANSACTIONID = 0

6.554.1 Member Typedef Documentation

6.554.1.1 typedef decaf::lang::PointerComparator<TransactionId>
activemq::commands::TransactionId::COMPARATOR

Reimplemented in **activemq::commands::LocalTransactionId** (p. 1601), and **activemq::commands::XATransactionId** (p. 2732).

6.554.2 Constructor & Destructor Documentation

6.554.2.1 `activemq::commands::TransactionId::TransactionId ()`

6.554.2.2 `activemq::commands::TransactionId::TransactionId (const TransactionId & other)`

6.554.2.3 `virtual activemq::commands::TransactionId::~~TransactionId ()` [virtual]

6.554.3 Member Function Documentation

6.554.3.1 `virtual TransactionId* activemq::commands::TransactionId::cloneDataStructure () const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

Reimplemented in `activemq::commands::LocalTransactionId` (p. 1601), and `activemq::commands::XATransactionId` (p. 2732).

6.554.3.2 `virtual int activemq::commands::TransactionId::compareTo (const TransactionId & value) const` [virtual]

Reimplemented in `activemq::commands::LocalTransactionId` (p. 1601), and `activemq::commands::XATransactionId` (p. 2732).

6.554.3.3 `virtual void activemq::commands::TransactionId::copyDataStructure (const DataStructure * src)` [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented in `activemq::commands::LocalTransactionId` (p. 1601), and `activemq::commands::XATransactionId` (p. 2732).

6.554.3.4 `virtual bool activemq::commands::TransactionId::equals (const TransactionId & value) const` [virtual]

Reimplemented in `activemq::commands::LocalTransactionId` (p. 1602), and `activemq::commands::XATransactionId` (p. 2733).

6.554.3.5 virtual bool activemq::commands::TransactionId::equals (const DataStructure * *value*) const [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented in **activemq::commands::LocalTransactionId** (p. 1602), and **activemq::commands::XATransactionId** (p. 2733).

6.554.3.6 virtual unsigned char activemq::commands::TransactionId::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

Reimplemented in **activemq::commands::LocalTransactionId** (p. 1602), and **activemq::commands::XATransactionId** (p. 2733).

6.554.3.7 virtual bool activemq::commands::TransactionId::operator< (const TransactionId & *value*) const [virtual]

Reimplemented in **activemq::commands::LocalTransactionId** (p. 1602), and **activemq::commands::XATransactionId** (p. 2734).

6.554.3.8 TransactionId& activemq::commands::TransactionId::operator= (const TransactionId & *other*)

Reimplemented in **activemq::commands::LocalTransactionId** (p. 1602), and **activemq::commands::XATransactionId** (p. 2734).

6.554.3.9 virtual bool activemq::commands::TransactionId::operator== (const TransactionId & *value*) const [virtual]

Reimplemented in **activemq::commands::LocalTransactionId** (p. 1603), and **activemq::commands::XATransactionId** (p. 2734).

6.554.3.10 virtual std::string activemq::commands::TransactionId::toString () const [virtual]

Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseDataStructure` (p. 560).

Reimplemented in `activemq::commands::LocalTransactionId` (p. 1603), and `activemq::commands::XATransactionId` (p. 2734).

6.554.4 Field Documentation

6.554.4.1 `const unsigned char activemq::commands::TransactionId::ID_TRANSACTIONID = 0` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/TransactionId.h`

6.555 activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2577).

#include <src/main/activemq/wireformat/openwire/marshal/v1/TransactionIdMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller:

Public Member Functions

- **TransactionIdMarshaller** ()
- virtual **~TransactionIdMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshal an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.555.1 Detailed Description

Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2577). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.555.2 Constructor & Destructor Documentation

6.555.2.1 `activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller::TransactionIdMarshaller()` [inline]

6.555.2.2 `virtual activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller::~~TransactionIdMarshaller()` [inline, virtual]

6.555.3 Member Function Documentation

6.555.3.1 `virtual void activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller` (p. 1613), and `activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller` (p. 2737).

6.555.3.2 `virtual void activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the `unmarshal`.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller** (p. 1614), and **activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller** (p. 2738).

6.555.3.3 `virtual int activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller** (p. 1614), and **activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller** (p. 2738).

6.555.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1166).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller` (p. 1615), and `activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller` (p. 2739).

```
6.555.3.5  virtual void ac-
            tivemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller::tightUnmarshal
            (OpenWireFormat * wireFormat,  commands::DataStructure
            * dataStructure,  decaf::io::DataInputStream * dataIn,
            utils::BooleanStream * bs) throw ( decaf::io::IOException )  [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

- IOException* if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1169).

Reimplemented in `activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller` (p. 1615), and `activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller` (p. 2739).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v1/TransactionIdMarshaller.h`

6.556 activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2581).

#include <src/main/activemq/wireformat/openwire/marshal/v3/TransactionIdMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller:

Public Member Functions

- **TransactionIdMarshaller** ()
- virtual **~TransactionIdMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Un-marshall an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)

Un-marshall an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)

Write a object instance to data output stream.

6.556.1 Detailed Description

Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2581). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.556.2 Constructor & Destructor Documentation

6.556.2.1 `activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller::TransactionIdMarshaller()` [inline]

6.556.2.2 `virtual activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller::~~TransactionIdMarshaller()` [inline, virtual]

6.556.3 Member Function Documentation

6.556.3.1 `virtual void activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller` (p. 1609), and `activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller` (p. 2741).

6.556.3.2 `virtual void activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the `unmarshal`.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller** (p. 1610), and **activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller** (p. 2742).

6.556.3.3 `virtual int activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller** (p. 1610), and **activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller** (p. 2742).

6.556.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1166).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller` (p. 1611), and `activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller` (p. 2743).

6.556.3.5 `virtual void activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller::tightUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn, utils::BooleanStream * bs) throw (decaf::io::IOException) [virtual]`

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

- IOException* if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1169).

Reimplemented in `activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller` (p. 1611), and `activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller` (p. 2743).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v3/TransactionIdMarshaller.h`

6.557 activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2585).

`#include <src/main/activemq/wireformat/openwire/marshal/v2/TransactionIdMarshaller.h>` Inheritance diagram for `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller`:

Public Member Functions

- **TransactionIdMarshaller** ()
- virtual **~TransactionIdMarshaller** ()
- virtual void **tightUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Un-marshall an object instance from the data input stream.

- virtual int **tightMarshal1** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write the booleans that this object uses to a BooleanStream.

- virtual void **tightMarshal2** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

- virtual void **looseUnmarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (**decaf::io::IOException**)

Un-marshall an object instance from the data input stream.

- virtual void **looseMarshal** (**OpenWireFormat** *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (**decaf::io::IOException**)

Write a object instance to data output stream.

6.557.1 Detailed Description

Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2585). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the `activemq-openwire-generator` module

6.557.2 Constructor & Destructor Documentation

6.557.2.1 `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller::TransactionIdMarshaller()` [inline]

6.557.2.2 `virtual activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller::~~TransactionIdMarshaller()` [inline, virtual]

6.557.3 Member Function Documentation

6.557.3.1 `virtual void activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller` (p. 1605), and `activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller` (p. 2745).

6.557.3.2 `virtual void activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller::looseUnmarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the `unmarshal`.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller** (p. 1606), and **activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller** (p. 2746).

6.557.3.3 `virtual int activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

Reimplemented in **activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller** (p. 1606), and **activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller** (p. 2746).

6.557.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller::tightMarshal2 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1166).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller` (p. 1607), and `activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller` (p. 2747).

```
6.557.3.5  virtual void ac-
            tivemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller::tightUnmarshal
            (OpenWireFormat * wireFormat,  commands::DataStructure
            * dataStructure,  decaf::io::DataInputStream * dataIn,
            utils::BooleanStream * bs) throw ( decaf::io::IOException )  [virtual]
```

Un-marshall an object instance from the data input stream.

Parameters:

- wireFormat* - describes the wire format of the broker.
- dataStructure* - Object to be un-marshaled.
- dataIn* - BinaryReader that provides that data.
- bs* - BooleanStream stream used to unpack bits from the wire.

Exceptions:

- IOException* if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1169).

Reimplemented in `activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller` (p. 1607), and `activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller` (p. 2747).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/openwire/marshal/v2/TransactionIdMarshaller.h`

6.558 activemq::commands::TransactionInfo Class Reference

#include <src/main/activemq/commands/TransactionInfo.h> Inheritance diagram for activemq::commands::TransactionInfo:

Public Member Functions

- **TransactionInfo** ()
- virtual **~TransactionInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **TransactionInfo** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual const **Pointer**< **ConnectionId** > & **getConnectionId** () const
- virtual **Pointer**< **ConnectionId** > & **getConnectionId** ()
- virtual void **setConnectionId** (const **Pointer**< **ConnectionId** > &connectionId)
- virtual const **Pointer**< **TransactionId** > & **getTransactionId** () const
- virtual **Pointer**< **TransactionId** > & **getTransactionId** ()
- virtual void **setTransactionId** (const **Pointer**< **TransactionId** > &transactionId)
- virtual unsigned char **getType** () const
- virtual void **setType** (unsigned char type)
- virtual bool **isTransactionInfo** () const
- virtual **Pointer**< **Command** > **visit** (activemq::state::CommandVisitor *visitor) throw (exceptions::ActiveMQException)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.

Static Public Attributes

- static const unsigned char **ID_TRANSACTIONINFO** = 7

Protected Member Functions

- **TransactionInfo** (const **TransactionInfo** &)
- **TransactionInfo** & **operator=** (const **TransactionInfo** &)

Protected Attributes

- `Pointer< ConnectionId > connectionId`
- `Pointer< TransactionId > transactionId`
- unsigned char type

6.558.1 Constructor & Destructor Documentation

6.558.1.1 `activemq::commands::TransactionInfo::TransactionInfo (const TransactionInfo &) [inline, protected]`

6.558.1.2 `activemq::commands::TransactionInfo::TransactionInfo ()`

6.558.1.3 `virtual activemq::commands::TransactionInfo::~~TransactionInfo () [virtual]`

6.558.2 Member Function Documentation

6.558.2.1 `virtual TransactionInfo* activemq::commands::TransactionInfo::cloneDataStructure () const [virtual]`

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.558.2.2 `virtual void activemq::commands::TransactionInfo::copyDataStructure (const DataStructure * src) [virtual]`

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.558.2.3 `virtual bool activemq::commands::TransactionInfo::equals (const DataStructure * value) const [virtual]`

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

- 6.558.2.4 virtual Pointer<ConnectionId>& activemq::commands::TransactionInfo::getConnectionId ()
[virtual]
- 6.558.2.5 virtual const Pointer<ConnectionId>& activemq::commands::TransactionInfo::getConnectionId ()
const [virtual]
- 6.558.2.6 virtual unsigned char activemq::commands::TransactionInfo::getDataStructureType () const
[virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Implements **activemq::commands::DataStructure** (p. 1176).

- 6.558.2.7 virtual Pointer<TransactionId>& activemq::commands::TransactionInfo::getTransactionId ()
[virtual]
- 6.558.2.8 virtual const Pointer<TransactionId>& activemq::commands::TransactionInfo::getTransactionId ()
const [virtual]
- 6.558.2.9 virtual unsigned char activemq::commands::TransactionInfo::getType ()
const [virtual]
- 6.558.2.10 virtual bool activemq::commands::TransactionInfo::isTransactionInfo ()
const [inline, virtual]

Returns:

an answer of true to the **isTransactionInfo()** (p. 2591) query.

Reimplemented from **activemq::commands::BaseCommand** (p. 512).

- 6.558.2.11 `TransactionInfo& activemq::commands::TransactionInfo::operator=`
(const TransactionInfo &) [inline, protected]
- 6.558.2.12 `virtual void activemq::commands::TransactionInfo::setConnectionId`
(const Pointer< ConnectionId > & *connectionId*) [virtual]
- 6.558.2.13 `virtual void activemq::commands::TransactionInfo::setTransactionId`
(const Pointer< TransactionId > & *transactionId*) [virtual]
- 6.558.2.14 `virtual void activemq::commands::TransactionInfo::setType` (unsigned
char *type*) [virtual]
- 6.558.2.15 `virtual std::string activemq::commands::TransactionInfo::toString` ()
const [virtual]

Returns a string containing the information for this **DataStructure** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p.512).

- 6.558.2.16 `virtual Pointer<Command> activemq::commands::TransactionInfo::visit`
(activemq::state::CommandVisitor * *visitor*) throw (
exceptions::ActiveMQException) [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p.2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p.883).

6.558.3 Field Documentation

- 6.558.3.1 `Pointer<ConnectionId> ac-`
`tivemq::commands::TransactionInfo::connectionId`
[protected]
- 6.558.3.2 `const unsigned char activemq::commands::TransactionInfo::ID_ -`
`TRANSACTIONINFO = 7` [static]
- 6.558.3.3 `Pointer<TransactionId> ac-`
`tivemq::commands::TransactionInfo::transactionId`
[protected]
- 6.558.3.4 `unsigned char activemq::commands::TransactionInfo::type` [protected]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/TransactionInfo.h`

6.559 activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2594).

#include <src/main/activemq/wireformat/openwire/marshal/v2/TransactionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller:

Public Member Functions

- **TransactionInfoMarshaller** ()
- virtual **~TransactionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaller.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.559.1 Detailed Description

Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2594). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.559.2 Constructor & Destructor Documentation

6.559.2.1 `activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::TransactionInfoMarshaller()` `[inline]`

6.559.2.2 `virtual activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::~~TransactionInfoMarshaller()` `[inline, virtual]`

6.559.3 Member Function Documentation

6.559.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::createObject()` `const` `[virtual]`

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.559.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::getDataStructureType()` `const` `[virtual]`

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.559.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` `[virtual]`

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 529).

6.559.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 530).

6.559.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller` (p. 531).

6.559.3.6 virtual void activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 532).

6.559.3.7 virtual void activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller** (p. 533).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/TransactionInfoMarshaller.h

6.560 activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2598).

#include <src/main/activemq/wireformat/openwire/marshal/v3/TransactionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller:

Public Member Functions

- **TransactionInfoMarshaller** ()
- virtual **~TransactionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.560.1 Detailed Description

Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2598). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.560.2 Constructor & Destructor Documentation

6.560.2.1 `activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::TransactionInfoMarshaller()` [inline]

6.560.2.2 `virtual activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::~~TransactionInfoMarshaller()` [inline, virtual]

6.560.3 Member Function Documentation

6.560.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.560.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.560.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 515).

6.560.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 516).

6.560.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller` (p. 517).

6.560.3.6 virtual void activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 518).

6.560.3.7 virtual void activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller** (p. 519).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/TransactionInfoMarshaller.h

6.561 activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2602).

#include <src/main/activemq/wireformat/openwire/marshal/v1/TransactionInfoMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller:

Public Member Functions

- **TransactionInfoMarshaller** ()
- virtual **~TransactionInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.561.1 Detailed Description

Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2602). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.561.2 Constructor & Destructor Documentation

6.561.2.1 `activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::TransactionInfoMarshaller()` [inline]

6.561.2.2 `virtual activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::~~TransactionInfoMarshaller()` [inline, virtual]

6.561.3 Member Function Documentation

6.561.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.561.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.561.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 522).

6.561.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 523).

6.561.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::tightMarshal1 (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller` (p. 524).

6.561.3.6 virtual void activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 525).

6.561.3.7 virtual void activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller** (p. 526).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**TransactionInfoMarshaller.h**

6.562 activemq::state::TransactionState Class Reference

```
#include <src/main/activemq/state/TransactionState.h>
```

Public Member Functions

- **TransactionState** (const **Pointer**< **TransactionId** > &id)
- virtual **~TransactionState** ()
- **std::string toString** () const
- void **addCommand** (const **Pointer**< **Command** > &operation)
- void **checkShutdown** () const
- void **shutdown** ()
- const **StlList**< **Pointer**< **Command** > > &**getCommands** () const
- const **Pointer**< **TransactionId** > &**getId** () const
- void **setPrepared** (bool prepared)
- bool **isPrepared** () const
- void **setPreparedResult** (int preparedResult)
- int **getPreparedResult** () const

6.562.1 Constructor & Destructor Documentation

6.562.1.1 `activemq::state::TransactionState::TransactionState (const Pointer< TransactionId > & id)`

6.562.1.2 `virtual activemq::state::TransactionState::~~TransactionState ()`
[virtual]

6.562.2 Member Function Documentation

6.562.2.1 `void activemq::state::TransactionState::addCommand (const Pointer< Command > & operation)`

6.562.2.2 `void activemq::state::TransactionState::checkShutdown () const`

6.562.2.3 `const StlList< Pointer<Command> >& activemq::state::TransactionState::getCommands () const`
[inline]

6.562.2.4 `const Pointer<TransactionId>& activemq::state::TransactionState::getId () const` [inline]

6.562.2.5 `int activemq::state::TransactionState::getPreparedResult () const`
[inline]

6.562.2.6 `bool activemq::state::TransactionState::isPrepared () const` [inline]

6.562.2.7 `void activemq::state::TransactionState::setPrepared (bool prepared)`
[inline]

6.562.2.8 `void activemq::state::TransactionState::setPreparedResult (int preparedResult)` [inline]

6.562.2.9 `void activemq::state::TransactionState::shutdown ()` [inline]

6.562.2.10 `std::string activemq::state::TransactionState::toString () const`

The documentation for this class was generated from the following file:

- `src/main/activemq/state/TransactionState.h`

6.563 activemq::transport::Transport Class Reference

Interface for a **transport** (p. 67) layer for command objects.

#include <src/main/activemq/transport/Transport.h> Inheritance diagram for activemq::transport::Transport:

Public Member Functions

- virtual **~Transport** ()
- virtual void **oneway** (const **Pointer**< **Command** > &command)=0 throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends a one-way command.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command)=0 throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given command to the broker and then waits for the response.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command, unsigned int timeout)=0 throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)
Sends the given command to the broker and then waits for the response.
- virtual void **setWireFormat** (const **Pointer**< **wireformat::WireFormat** > &wireFormat)=0
Sets the WireFormat instance to use.
- virtual void **setTransportListener** (**TransportListener** *listener)=0
*Sets the observer of asynchronous events from this **transport** (p. 67).*
- virtual **TransportListener** * **getTransportListener** () const =0
*Gets the observer of asynchronous events from this **transport** (p. 67).*
- virtual **Transport** * **narrow** (const std::type_info &typeId)=0
*Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.*
- virtual bool **isFaultTolerant** () const =0
*Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.*
- virtual bool **isConnected** () const =0
*Is the **Transport** (p. 2608) Connected to its Broker.*
- virtual bool **isClosed** () const =0
*Has the **Transport** (p. 2608) been shutdown and no longer usable.*
- virtual std::string **getRemoteAddress** () const =0
- virtual void **reconnect** (const decaf::net::URI &uri)=0 throw (decaf::io::IOException)
reconnect to another location

6.563.1 Detailed Description

Interface for a **transport** (p. 67) layer for command objects. Callers can send oneway messages or make synchronous requests. Non-response messages will be delivered to the specified listener object upon receipt. A user of the **Transport** (p. 2608) can set an exception listener to be notified of errors that occurs in Threads that the **Transport** (p. 2608) layer runs. Transports should be given an instance of a WireFormat object when created so that they can turn the built in Commands to / from the required wire format encoding.

6.563.2 Constructor & Destructor Documentation

6.563.2.1 virtual `activemq::transport::Transport::~~Transport ()` [inline, virtual]

6.563.3 Member Function Documentation

6.563.3.1 virtual `std::string activemq::transport::Transport::getRemoteAddress ()`
const [pure virtual]

Returns:

the remote address for this connection

Implemented in `activemq::transport::failover::FailoverTransport` (p. 1300), `activemq::transport::IOTransport` (p. 1482), `activemq::transport::mock::MockTransport` (p. 1913), and `activemq::transport::TransportFilter` (p. 2619).

6.563.3.2 virtual `TransportListener* activemq::transport::Transport::getTransportListener ()`
const [pure virtual]

Gets the observer of asynchronous events from this **transport** (p. 67).

Returns:

the listener of **transport** (p. 67) events.

Implemented in `activemq::transport::failover::FailoverTransport` (p. 1300), `activemq::transport::IOTransport` (p. 1482), `activemq::transport::mock::MockTransport` (p. 1913), and `activemq::transport::TransportFilter` (p. 2619).

6.563.3.3 virtual `bool activemq::transport::Transport::isClosed ()` const [pure virtual]

Has the **Transport** (p. 2608) been shutdown and no longer usable.

Returns:

true if the **Transport** (p. 2608)

Implemented in `activemq::transport::failover::FailoverTransport` (p. 1301), `activemq::transport::IOTransport` (p. 1482), `activemq::transport::mock::MockTransport` (p. 1913), `activemq::transport::tcp::TcpTransport` (p. 2533), and `activemq::transport::TransportFilter` (p. 2619).

6.563.3.4 virtual bool activemq::transport::Transport::isConnected () const [pure virtual]

Is the **Transport** (p. 2608) Connected to its Broker.

Returns:

true if a connection has been made.

Implemented in **activemq::transport::failover::FailoverTransport** (p. 1301), **activemq::transport::IOTransport** (p. 1483), **activemq::transport::mock::MockTransport** (p. 1914), **activemq::transport::tcp::TcpTransport** (p. 2533), and **activemq::transport::TransportFilter** (p. 2619).

6.563.3.5 virtual bool activemq::transport::Transport::isFaultTolerant () const [pure virtual]

Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.

Returns:

true if the **Transport** (p. 2608) is fault tolerant.

Implemented in **activemq::transport::failover::FailoverTransport** (p. 1301), **activemq::transport::IOTransport** (p. 1483), **activemq::transport::mock::MockTransport** (p. 1914), **activemq::transport::tcp::TcpTransport** (p. 2534), and **activemq::transport::TransportFilter** (p. 2619).

6.563.3.6 virtual Transport* activemq::transport::Transport::narrow (const std::type_info & *typeId*) [pure virtual]

Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.

Parameters:

typeId - The type_info of the Object we are searching for.

Returns:

the requested Object. or NULL if its not in this chain.

Implemented in **activemq::transport::failover::FailoverTransport** (p. 1302), **activemq::transport::IOTransport** (p. 1483), **activemq::transport::mock::MockTransport** (p. 1914), and **activemq::transport::TransportFilter** (p. 2620).

Referenced by **activemq::transport::TransportFilter::narrow()**, and **activemq::transport::failover::FailoverTransport::narrow()**.

6.563.3.7 virtual void activemq::transport::Transport::oneway (const Pointer< Command > & *command*) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [pure virtual]

Sends a one-way command. Does not wait for any response from the broker.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implemented in **activemq::transport::correlator::ResponseCorrelator** (p. 2238), **activemq::transport::failover::FailoverTransport** (p. 1303), **activemq::transport::IOTransport** (p. 1483), **activemq::transport::logging::LoggingTransport** (p. 1638), **activemq::transport::mock::MockTransport** (p. 1914), **activemq::transport::TransportFilter** (p. 2620), and **activemq::wireformat::openwire::OpenWireFormatNegotiator** (p. 1985).

6.563.3.8 virtual void **activemq::transport::Transport::reconnect** (const **decaf::net::URI** & *uri*) throw (**decaf::io::IOException**) [pure virtual]

reconnect to another location

Parameters:

uri

Exceptions:

IOException on failure of if not supported

Implemented in **activemq::transport::failover::FailoverTransport** (p. 1303), and **activemq::transport::TransportFilter** (p. 2621).

6.563.3.9 virtual **Pointer<Response>** **activemq::transport::Transport::request** (const **Pointer< Command >** & *command*, unsigned int *timeout*) throw (**decaf::io::IOException**, **decaf::lang::exceptions::UnsupportedOperationException**) [pure virtual]

Sends the given command to the broker and then waits for the response.

Parameters:

command - The command to be sent.

timeout - The time to wait for this response.

Returns:

the response from the broker.

Exceptions:

IOException if an exception occurs during the read of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implemented in `activemq::transport::correlator::ResponseCorrelator` (p. 2239), `activemq::transport::failover::FailoverTransport` (p. 1304), `activemq::transport::IOTransport` (p. 1484), `activemq::transport::logging::LoggingTransport` (p. 1638), `activemq::transport::mock::MockTransport` (p. 1915), `activemq::transport::TransportFilter` (p. 2621), and `activemq::wireformat::openwire::OpenWireFormatNegotiator` (p. 1986).

6.563.3.10 `virtual Pointer<Response> activemq::transport::Transport::request (const Pointer< Command > & command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)` [pure virtual]

Sends the given command to the broker and then waits for the response.

Parameters:

command the command to be sent.

Returns:

the response from the broker.

Exceptions:

IOException if an exception occurs during the read of the command.

UnsupportedOperationException if this method is not implemented by this `transport` (p. 67).

Implemented in `activemq::transport::correlator::ResponseCorrelator` (p. 2239), `activemq::transport::failover::FailoverTransport` (p. 1304), `activemq::transport::IOTransport` (p. 1484), `activemq::transport::logging::LoggingTransport` (p. 1639), `activemq::transport::mock::MockTransport` (p. 1915), `activemq::transport::TransportFilter` (p. 2622), and `activemq::wireformat::openwire::OpenWireFormatNegotiator` (p. 1986).

6.563.3.11 `virtual void activemq::transport::Transport::setTransportListener (TransportListener * listener)` [pure virtual]

Sets the observer of asynchronous events from this `transport` (p. 67).

Parameters:

listener the listener of `transport` (p. 67) events.

Implemented in `activemq::transport::failover::FailoverTransport` (p. 1306), `activemq::transport::IOTransport` (p. 1485), `activemq::transport::mock::MockTransport` (p. 1917), and `activemq::transport::TransportFilter` (p. 2622).

6.563.3.12 `virtual void activemq::transport::Transport::setWireFormat (const Pointer< wireformat::WireFormat > & wireFormat)` [pure virtual]

Sets the WireFormat instance to use.

Parameters:

wireFormat The WireFormat the object used to encode / decode **commands** (p. 59).

Implemented in **activemq::transport::IOTransport** (p. 1485), and **activemq::transport::TransportFilter** (p. 2622).

The documentation for this class was generated from the following file:

- src/main/activemq/transport/**Transport.h**

6.564 activemq::transport::TransportFactory Class Reference

Defines the interface for Factories that create Transports or TransportFilters.

#include <src/main/activemq/transport/TransportFactory.h> Inheritance diagram for activemq::transport::TransportFactory:

Public Member Functions

- virtual **~TransportFactory** ()
- virtual **Pointer< Transport > create** (const **decaf::net::URI** &location)=0 throw (exceptions::ActiveMQException)
*Creates a fully configured **Transport** (p. 2608) instance which could be a chain of filters and transports.*
- virtual **Pointer< Transport > createComposite** (const **decaf::net::URI** &location)=0 throw (exceptions::ActiveMQException)
*Creates a slimed down **Transport** (p. 2608) instance which can be used in composite **transport** (p. 67) instances.*

6.564.1 Detailed Description

Defines the interface for Factories that create Transports or TransportFilters. The factory should be able to create either a completely configured **Transport** (p. 2608) meaning that it has all the appropriate filters wrapping it, or it should be able to create a slimed down version that is used in composite transports like Failover or Fanout.

Since:

3.0

6.564.2 Constructor & Destructor Documentation

- 6.564.2.1 virtual activemq::transport::TransportFactory::~~TransportFactory** ()
[inline, virtual]

6.564.3 Member Function Documentation

- 6.564.3.1 virtual Pointer<Transport> activemq::transport::TransportFactory::create** (const **decaf::net::URI** & *location*) throw (exceptions::ActiveMQException)
[pure virtual]

Creates a fully configured **Transport** (p. 2608) instance which could be a chain of filters and transports.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implemented in **activemq::transport::failover::FailoverTransportFactory** (p. 1309), **activemq::transport::mock::MockTransportFactory** (p. 1919), and **activemq::transport::tcp::TcpTransportFactory** (p. 2536).

6.564.3.2 `virtual Pointer<Transport> activemq::transport::TransportFactory::createComposite (const decaf::net::URI & location) throw (exceptions::ActiveMQException)`
[pure virtual]

Creates a slimmed down **Transport** (p. 2608) instance which can be used in composite **transport** (p. 67) instances.

Parameters:

location - URI location to connect to plus any properties to assign.

Exceptions:

ActiveMQException if an error occurs

Implemented in **activemq::transport::failover::FailoverTransportFactory** (p. 1309), **activemq::transport::mock::MockTransportFactory** (p. 1919), and **activemq::transport::tcp::TcpTransportFactory** (p. 2536).

The documentation for this class was generated from the following file:

- `src/main/activemq/transport/TransportFactory.h`

6.565 activemq::transport::TransportFilter Class Reference

A filter on the **transport** (p. 67) layer.

#include <src/main/activemq/transport/TransportFilter.h> Inheritance diagram for activemq::transport::TransportFilter:

Public Member Functions

- **TransportFilter** (const **Pointer**< **Transport** > &next)
Constructor.
- virtual ~**TransportFilter** ()
- virtual void **onCommand** (const **Pointer**< **Command** > &command)
Event handler for the receipt of a command.
- virtual void **onException** (const **decaf::lang::Exception** &ex)
*Event handler for an exception from a command **transport** (p. 67).*
- virtual void **transportInterrupted** ()
*The **transport** (p. 67) has suffered an interruption from which it hopes to recover.*
- virtual void **transportResumed** ()
*The **transport** (p. 67) has resumed after an interruption.*
- virtual void **oneway** (const **Pointer**< **Command** > &command) throw (**decaf::io::IOException**, **decaf::lang::exceptions::UnsupportedOperationException**)
Sends a one-way command.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command) throw (**decaf::io::IOException**, **decaf::lang::exceptions::UnsupportedOperationException**)
Not supported by this class - throws an exception.
- virtual **Pointer**< **Response** > **request** (const **Pointer**< **Command** > &command, unsigned int timeout) throw (**decaf::io::IOException**, **decaf::lang::exceptions::UnsupportedOperationException**)
Not supported by this class - throws an exception.
- virtual void **setTransportListener** (**TransportListener** *listener)
*Sets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).*
- virtual **TransportListener** * **getTransportListener** () const
*Gets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).*
- virtual void **setWireFormat** (const **Pointer**< **wireformat::WireFormat** > &wireFormat)
*Sets the **WireFormat** instance to use.*
- virtual void **start** () throw (**cms::CMSEException**)

Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59).

- virtual void **close** () throw (cms::CMSException)
Stops the polling thread and closes the streams.
- virtual **Transport * narrow** (const std::type_info &typeId)
Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.
- virtual bool **isFaultTolerant** () const
Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.
- virtual bool **isConnected** () const
Is the **Transport** (p. 2608) Connected to its Broker.
- virtual bool **isClosed** () const
Has the **Transport** (p. 2608) been shutdown and no longer usable.
- virtual std::string **getRemoteAddress** () const
- virtual void **reconnect** (const decaf::net::URI &uri) throw (decaf::io::IOException)
reconnect to another location

Protected Member Functions

- void **fire** (const decaf::lang::Exception &ex)
Notify the exception listener.
- void **fire** (const Pointer< Command > &command)
Notify the command listener.

Protected Attributes

- Pointer< Transport > **next**
The **transport** (p. 67) that this filter wraps around.
- TransportListener * **listener**
Listener of this **transport** (p. 67).

6.565.1 Detailed Description

A filter on the **transport** (p. 67) layer. **Transport** (p. 2608) filters implement the **Transport** (p. 2608) interface and optionally delegate calls to another **Transport** (p. 2608) object.

6.565.2 Constructor & Destructor Documentation

6.565.2.1 `activemq::transport::TransportFilter::TransportFilter (const Pointer< Transport > & next)`

Constructor.

Parameters:

next - the next **Transport** (p. 2608) in the chain

6.565.2.2 `virtual activemq::transport::TransportFilter::~~TransportFilter ()` [inline, virtual]

6.565.3 Member Function Documentation

6.565.3.1 `virtual void activemq::transport::TransportFilter::close () throw (cms::CMSException)` [inline, virtual]

Stops the polling thread and closes the streams. This can be called explicitly, but is also called in the destructor. Once this object has been closed, it cannot be restarted.

Exceptions:

CMSException if errors occur.

Implements **cms::Closeable** (p. 838).

Reimplemented in **activemq::transport::correlator::ResponseCorrelator** (p. 2238), **activemq::transport::tcp::TcpTransport** (p. 2533), and **activemq::wireformat::openwire::OpenWireFormatNegotiator** (p. 1985).

6.565.3.2 `void activemq::transport::TransportFilter::fire (const Pointer< Command > & command)` [inline, protected]

Notify the command listener.

Parameters:

command - the command to send to the listener

6.565.3.3 `void activemq::transport::TransportFilter::fire (const decaf::lang::Exception & ex)` [inline, protected]

Notify the exception listener.

Parameters:

ex - the exception to send to listeners

6.565.3.4 `virtual std::string activemq::transport::TransportFilter::getRemoteAddress () const [inline, virtual]`

Returns:

the remote address for this connection

Implements **activemq::transport::Transport** (p. 2609).

6.565.3.5 `virtual TransportListener* activemq::transport::TransportFilter::getTransportListener () const [inline, virtual]`

Gets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).

Returns:

The listener of **transport** (p. 67) events.

Implements **activemq::transport::Transport** (p. 2609).

6.565.3.6 `virtual bool activemq::transport::TransportFilter::isClosed () const [inline, virtual]`

Has the **Transport** (p. 2608) been shutdown and no longer usable.

Returns:

true if the **Transport** (p. 2608)

Implements **activemq::transport::Transport** (p. 2609).

Reimplemented in **activemq::transport::tcp::TcpTransport** (p. 2533).

6.565.3.7 `virtual bool activemq::transport::TransportFilter::isConnected () const [inline, virtual]`

Is the **Transport** (p. 2608) Connected to its Broker.

Returns:

true if a connection has been made.

Implements **activemq::transport::Transport** (p. 2610).

Reimplemented in **activemq::transport::tcp::TcpTransport** (p. 2533).

6.565.3.8 `virtual bool activemq::transport::TransportFilter::isFaultTolerant () const [inline, virtual]`

Is this **Transport** (p. 2608) fault tolerant, meaning that it will reconnect to a broker on disconnect.

Returns:

true if the **Transport** (p. 2608) is fault tolerant.

Implements **activemq::transport::Transport** (p. 2610).

Reimplemented in **activemq::transport::tcp::TcpTransport** (p. 2534).

6.565.3.9 `virtual Transport* activemq::transport::TransportFilter::narrow (const std::type_info & typeId)` [inline, virtual]

Narrows down a Chain of Transports to a specific **Transport** (p. 2608) to allow a higher level **transport** (p. 67) to skip intermediate Transports in certain circumstances.

Parameters:

typeId - The type_info of the Object we are searching for.

Returns:

the requested Object. or NULL if its not in this chain.

Implements **activemq::transport::Transport** (p. 2610).

References **activemq::transport::Transport::narrow()**.

6.565.3.10 `virtual void activemq::transport::TransportFilter::onCommand (const Pointer< Command > & command)` [inline, virtual]

Event handler for the receipt of a command.

Parameters:

command - the received command object.

Implements **activemq::transport::TransportListener** (p. 2624).

Reimplemented in **activemq::transport::correlator::ResponseCorrelator** (p. 2238), **activemq::transport::logging::LoggingTransport** (p. 1638), and **activemq::wireformat::openwire::OpenWireFormatNegotiator** (p. 1985).

6.565.3.11 `virtual void activemq::transport::TransportFilter::oneway (const Pointer< Command > & command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)` [inline, virtual]

Sends a one-way command. Does not wait for any response from the broker.

Parameters:

command the command to be sent.

Exceptions:

IOException if an exception occurs during writing of the command.

UnsupportedOperationException if this method is not implemented by this **transport** (p. 67).

Implements **activemq::transport::Transport** (p. 2610).

Reimplemented in **activemq::transport::correlator::ResponseCorrelator** (p. 2238), **activemq::transport::logging::LoggingTransport** (p. 1638), and **activemq::wireformat::openwire::OpenWireFormatNegotiator** (p. 1985).

6.565.3.12 **virtual void activemq::transport::TransportFilter::onException (const decaf::lang::Exception & *ex*)** [virtual]

Event handler for an exception from a command **transport** (p. 67).

Parameters:

ex The exception to handle.

Implements **activemq::transport::TransportListener** (p. 2625).

6.565.3.13 **virtual void activemq::transport::TransportFilter::reconnect (const decaf::net::URI & *uri*) throw (decaf::io::IOException)** [virtual]

reconnect to another location

Parameters:

uri

Exceptions:

IOException on failure of if not supported

Implements **activemq::transport::Transport** (p. 2611).

6.565.3.14 **virtual Pointer<Response> activemq::transport::TransportFilter::request (const Pointer< Command > & *command*, unsigned int *timeout*) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException)** [inline, virtual]

Not supported by this class - throws an exception.

Parameters:

command - The command that is sent as a request

timeout - The the time to wait for a response.

Exceptions:

IOException

UnsupportedOperationException.

Implements **activemq::transport::Transport** (p. 2611).

Reimplemented in **activemq::transport::correlator::ResponseCorrelator** (p. 2239), **activemq::transport::logging::LoggingTransport** (p. 1638), and **activemq::wireformat::openwire::OpenWireFormatNegotiator** (p. 1986).

6.565.3.15 `virtual Pointer<Response> activemq::transport::TransportFilter::request (const Pointer< Command > & command) throw (decaf::io::IOException, decaf::lang::exceptions::UnsupportedOperationException) [inline, virtual]`

Not supported by this class - throws an exception.

Parameters:

command the command that is sent as a request

Exceptions:

IOException

UnsupportedOperationException.

Implements `activemq::transport::Transport` (p. 2612).

Reimplemented in `activemq::transport::correlator::ResponseCorrelator` (p. 2239), `activemq::transport::logging::LoggingTransport` (p. 1639), and `activemq::wireformat::openwire::OpenWireFormatNegotiator` (p. 1986).

6.565.3.16 `virtual void activemq::transport::TransportFilter::setTransportListener (TransportListener * listener) [inline, virtual]`

Sets the observer of asynchronous **exceptions** (p. 62) from this **transport** (p. 67).

Parameters:

listener the listener of **transport** (p. 67) events.

Implements `activemq::transport::Transport` (p. 2612).

6.565.3.17 `virtual void activemq::transport::TransportFilter::setWireFormat (const Pointer< wireformat::WireFormat > & wireFormat) [inline, virtual]`

Sets the WireFormat instance to use.

Parameters:

wireFormat The WireFormat the object used to encode / decode **commands** (p. 59).

Implements `activemq::transport::Transport` (p. 2612).

6.565.3.18 `virtual void activemq::transport::TransportFilter::start () throw (cms::CMSException) [inline, virtual]`

Starts this **transport** (p. 67) object and creates the thread for polling on the input stream for **commands** (p. 59). If this object has been closed, throws an exception. Before calling start, the caller must set the IO streams and the reader and writer objects.

Exceptions:

CMSException if an error occurs or if this **transport** (p. 67) has already been closed.

Implements **cms::Startable** (p. 2413).

Reimplemented in **activemq::transport::correlator::ResponseCorrelator** (p. 2240), and **activemq::wireformat::openwire::OpenWireFormatNegotiator** (p. 1987).

6.565.3.19 virtual void activemq::transport::TransportFilter::transportInterrupted () [inline, virtual]

The **transport** (p. 67) has suffered an interruption from which it hopes to recover.

Implements **activemq::transport::TransportListener** (p. 2625).

6.565.3.20 virtual void activemq::transport::TransportFilter::transportResumed () [inline, virtual]

The **transport** (p. 67) has resumed after an interruption.

Implements **activemq::transport::TransportListener** (p. 2625).

6.565.4 Field Documentation

6.565.4.1 TransportListener* activemq::transport::TransportFilter::listener [protected]

Listener of this **transport** (p. 67).

6.565.4.2 Pointer<Transport> activemq::transport::TransportFilter::next [protected]

The **transport** (p. 67) that this filter wraps around.

The documentation for this class was generated from the following file:

- src/main/activemq/transport/**TransportFilter.h**

6.566 activemq::transport::TransportListener Class Reference

A listener of asynchronous **exceptions** (p. 62) from a command **transport** (p. 67) object.

#include <src/main/activemq/transport/TransportListener.h> Inheritance diagram for activemq::transport::TransportListener:

Public Member Functions

- virtual **~TransportListener** ()
- virtual void **onCommand** (const **Pointer< Command >** &command)=0
Event handler for the receipt of a command.
- virtual void **onException** (const **decaf::lang::Exception** &ex)=0
*Event handler for an exception from a command **transport** (p. 67).*
- virtual void **transportInterrupted** ()=0
*The **transport** (p. 67) has suffered an interruption from which it hopes to recover.*
- virtual void **transportResumed** ()=0
*The **transport** (p. 67) has resumed after an interruption.*

6.566.1 Detailed Description

A listener of asynchronous **exceptions** (p. 62) from a command **transport** (p. 67) object.

6.566.2 Constructor & Destructor Documentation

- 6.566.2.1** virtual **activemq::transport::TransportListener::~~TransportListener** ()
[inline, virtual]

6.566.3 Member Function Documentation

- 6.566.3.1** virtual void **activemq::transport::TransportListener::onCommand** (const **Pointer< Command >** & *command*) [pure virtual]

Event handler for the receipt of a command. The **transport** (p. 67) passes off all received **commands** (p. 59) to its listeners, the listener then owns the Object. If there is no registered listener the **Transport** (p. 2608) deletes the command upon receipt.

Parameters:

command the received command object.

Implemented in **activemq::core::ActiveMQConnection** (p. 197), **activemq::transport::correlator::ResponseCorrelator** (p. 2238), **activemq::transport::failover::FailoverTransportListener** (p. 1312),

activemq::transport::logging::LoggingTransport (p. 1638), **ac-**
tivemq::transport::mock::InternalCommandListener (p. 1457),
activemq::transport::TransportFilter (p. 2620), and **ac-**
tivemq::wireformat::openwire::OpenWireFormatNegotiator (p. 1985).

6.566.3.2 virtual void activemq::transport::TransportListener::onException (const decaf::lang::Exception & *ex*) [pure virtual]

Event handler for an exception from a command **transport** (p. 67).

Parameters:

ex The exception being propagated to this listener to handle.

Implemented in **activemq::core::ActiveMQConnection** (p. 197),
activemq::transport::failover::BackupTransport (p. 502), **ac-**
tivemq::transport::failover::FailoverTransportListener (p. 1312), and **ac-**
tivemq::transport::TransportFilter (p. 2621).

6.566.3.3 virtual void activemq::transport::TransportListener::transportInterrupted () [pure virtual]

The **transport** (p. 67) has suffered an interruption from which it hopes to recover.

Implemented in **activemq::core::ActiveMQConnection** (p. 199),
activemq::transport::DefaultTransportListener (p. 1186), **ac-**
tivemq::transport::failover::FailoverTransportListener (p. 1312), and **ac-**
tivemq::transport::TransportFilter (p. 2623).

6.566.3.4 virtual void activemq::transport::TransportListener::transportResumed () [pure virtual]

The **transport** (p. 67) has resumed after an interruption.

Implemented in **activemq::core::ActiveMQConnectionSupport** (p. 215),
activemq::transport::DefaultTransportListener (p. 1186), **ac-**
tivemq::transport::failover::FailoverTransportListener (p. 1312), and **ac-**
tivemq::transport::TransportFilter (p. 2623).

The documentation for this class was generated from the following file:

- src/main/activemq/transport/**TransportListener.h**

6.567 activemq::transport::TransportRegistry Class Reference

Registry of all **Transport** (p. 2608) Factories that are available to the client at runtime.

```
#include <src/main/activemq/transport/TransportRegistry.h>
```

Public Member Functions

- virtual **~TransportRegistry** ()
- **TransportFactory** * **findFactory** (const std::string &name) const throw (decaf::lang::exceptions::NoSuchElementException)

*Gets a Registered **TransportFactory** (p. 2614) from the Registry and returns it if there is not a registered format factory with the given name an exception is thrown.*

- void **registerFactory** (const std::string &name, **TransportFactory** *factory) throw (decaf::lang::exceptions::IllegalArgumentException, decaf::lang::exceptions::NullPointerException)

*Registers a new **TransportFactory** (p. 2614) with this Registry.*

- void **unregisterFactory** (const std::string &name)

Unregisters the Factory with the given name and deletes that instance of the Factory.

- std::vector< std::string > **getTransportNames** () const

Retrieves a list of the names of all the Registered Transport's in this Registry.

Static Public Member Functions

- static **TransportRegistry** & **getInstance** ()

*Gets the single instance of the **TransportRegistry** (p. 2626).*

6.567.1 Detailed Description

Registry of all **Transport** (p. 2608) Factories that are available to the client at runtime. New Transport's must have a factory registered here before a connection attempt is made.

Since:

3.0

6.567.2 Constructor & Destructor Documentation

6.567.2.1 `virtual activemq::transport::TransportRegistry::~TransportRegistry ()`
[virtual]

6.567.3 Member Function Documentation

6.567.3.1 `TransportFactory* activemq::transport::TransportRegistry::findFactory (const std::string & name) const throw (decaf::lang::exceptions::NoSuchElementException)`

Gets a Registered **TransportFactory** (p. 2614) from the Registry and returns it if there is not a registered format factory with the given name an exception is thrown.

Parameters:

name The name of the Factory to find in the Registry.

Returns:

the Factory registered under the given name.

Exceptions:

NoSuchElementException if no factory is registered with that name.

6.567.3.2 `static TransportRegistry& activemq::transport::TransportRegistry::getInstance ()`
[static]

Gets the single instance of the **TransportRegistry** (p. 2626).

Returns:

reference to the single instance of this Registry

6.567.3.3 `std::vector<std::string> activemq::transport::TransportRegistry::getTransportNames () const`

Retrieves a list of the names of all the Registered Transport's in this Registry.

Returns:

std vector of strings with all the **Transport** (p. 2608) names registered.

6.567.3.4 `void activemq::transport::TransportRegistry::registerFactory (const std::string & name, TransportFactory * factory) throw (decaf::lang::exceptions::IllegalArgumentException, decaf::lang::exceptions::NullPointerException)`

Registers a new **TransportFactory** (p. 2614) with this Registry. If a Factory with the given name is already registered it is overwritten with the new one. Once a factory is added to the Registry its lifetime is controlled by the Registry, it will be deleted once the Registry has been deleted.

Parameters:

- name* The name of the new Factory to register.
factory The new Factory to add to the Registry.

Exceptions:

- IllegalArgumentException* if name is the empty string.
NullPointerException if the Factory is Null.

6.567.3.5 void activemq::transport::TransportRegistry::unregisterFactory (const std::string & name)

Unregisters the Factory with the given name and deletes that instance of the Factory.

Parameters:

- name* Name of the Factory to unregister and destroy

The documentation for this class was generated from the following file:

- src/main/activemq/transport/**TransportRegistry.h**

6.568 decaf::net::UnknownHostException Class Reference

#include <src/main/decaf/net/UnknownHostException.h> Inheritance diagram for decaf::net::UnknownHostException:

Public Member Functions

- **UnknownHostException** () throw ()
Default Constructor.
- **UnknownHostException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **UnknownHostException** (const **UnknownHostException** &ex) throw ()
Copy Constructor.
- **UnknownHostException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **UnknownHostException** (const std::exception *cause) throw ()
Constructor.
- **UnknownHostException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **UnknownHostException** * clone () const
Clones this exception.
- virtual ~**UnknownHostException** () throw ()

6.568.1 Constructor & Destructor Documentation

6.568.1.1 decaf::net::UnknownHostException::UnknownHostException () throw () [inline]

Default Constructor.

6.568.1.2 decaf::net::UnknownHostException::UnknownHostException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.568.1.3 `decaf::net::UnknownHostException::UnknownHostException (const UnknownHostException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

References `decaf::lang::Exception::Exception()`.

6.568.1.4 `decaf::net::UnknownHostException::UnknownHostException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.568.1.5 `decaf::net::UnknownHostException::UnknownHostException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.568.1.6 `decaf::net::UnknownHostException::UnknownHostException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.568.1.7 virtual decaf::net::UnknownHostException::~~UnknownHostException ()
throw () [inline, virtual]

6.568.2 Member Function Documentation

6.568.2.1 virtual UnknownHostException* decaf::net::UnknownHostException::clone () const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::io::IOException** (p. 1479).

The documentation for this class was generated from the following file:

- src/main/decaf/net/**UnknownHostException.h**

6.569 decaf::net::UnknownServiceException Class Reference

#include <src/main/decaf/net/UnknownServiceException.h> Inheritance diagram for decaf::net::UnknownServiceException:

Public Member Functions

- **UnknownServiceException** () throw ()
Default Constructor.
- **UnknownServiceException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **UnknownServiceException** (const **UnknownServiceException** &ex) throw ()
Copy Constructor.
- **UnknownServiceException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **UnknownServiceException** (const std::exception *cause) throw ()
Constructor.
- **UnknownServiceException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **UnknownServiceException** * clone () const
Clones this exception.
- virtual ~**UnknownServiceException** () throw ()

6.569.1 Constructor & Destructor Documentation

6.569.1.1 decaf::net::UnknownServiceException::UnknownServiceException () throw () [inline]

Default Constructor.

6.569.1.2 decaf::net::UnknownServiceException::UnknownServiceException (const Exception & ex) throw () [inline]

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.569.1.3 decaf::net::UnknownServiceException::UnknownServiceException (const UnknownServiceException & *ex*) throw () [inline]

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

References decaf::lang::Exception::Exception().

6.569.1.4 decaf::net::UnknownServiceException::UnknownServiceException (const char * *file*, const int *lineNumber*, const std::exception * *cause*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.569.1.5 decaf::net::UnknownServiceException::UnknownServiceException (const std::exception * *cause*) throw () [inline]

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.569.1.6 decaf::net::UnknownServiceException::UnknownServiceException (const char * *file*, const int *lineNumber*, const char * *msg*, ...) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.569.1.7 **virtual**
decaf::net::UnknownServiceException::~UnknownServiceException ()
throw () [inline, virtual]

6.569.2 Member Function Documentation

6.569.2.1 **virtual UnknownServiceException* de-**
caf::net::UnknownServiceException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::io::IOException** (p. 1479).

The documentation for this class was generated from the following file:

- `src/main/decaf/net/UnknownServiceException.h`

6.570 decaf::lang::exceptions::UnsupportedOperationException Class Reference

#include <src/main/decaf/lang/exceptions/UnsupportedOperationException.h> Inheritance diagram for decaf::lang::exceptions::UnsupportedOperationException:

Public Member Functions

- **UnsupportedOperationException** () throw ()
Default Constructor.
- **UnsupportedOperationException** (const **Exception** &ex) throw ()
*Conversion Constructor from some other **Exception** (p. 1268).*
- **UnsupportedOperationException** (const **UnsupportedOperationException** &ex) throw ()
Copy Constructor.
- **UnsupportedOperationException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **UnsupportedOperationException** (const std::exception *cause) throw ()
Constructor.
- **UnsupportedOperationException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **UnsupportedOperationException** * clone () const
Clones this exception.
- virtual ~**UnsupportedOperationException** () throw ()

6.570.1 Constructor & Destructor Documentation

6.570.1.1 decaf::lang::exceptions::UnsupportedOperationException::UnsupportedOperationException () throw () [inline]

Default Constructor.

6.570.1.2 decaf::lang::exceptions::UnsupportedOperationException::UnsupportedOperationException (const **Exception** & ex) throw () [inline]

Conversion Constructor from some other **Exception** (p. 1268).

Parameters:

ex An exception that should become this type of **Exception** (p. 1268)

6.570.1.3 `decaf::lang::exceptions::UnsupportedOperationException::UnsupportedOperationException`
`(const UnsupportedOperationException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex An exception that should become this type of **Exception** (p. 1268)

6.570.1.4 `decaf::lang::exceptions::UnsupportedOperationException::UnsupportedOperationException`
`(const char * file, const int lineNumber, const std::exception * cause,
const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.570.1.5 `decaf::lang::exceptions::UnsupportedOperationException::UnsupportedOperationException`
`(const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause **Pointer** (p. 2011) to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.570.1.6 `decaf::lang::exceptions::UnsupportedOperationException::UnsupportedOperationException`
`(const char * file, const int lineNumber, const char * msg, ...) throw ()`
`[inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.570.1.7 **virtual**
decaf::lang::exceptions::UnsupportedOperationException::~~UnsupportedOperationException
() throw () [inline, virtual]

6.570.2 Member Function Documentation

6.570.2.1 **virtual UnsupportedOperationException* de-**
caf::lang::exceptions::UnsupportedOperationException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

an new **Exception** (p. 1268) instance that is a copy of this one.

Reimplemented from **decaf::lang::Exception** (p. 1271).

Reimplemented in **decaf::nio::ReadOnlyBufferException** (p. 2169).

The documentation for this class was generated from the following file:

- `src/main/decaf/lang/exceptions/UnsupportedOperationException.h`

6.571 decaf::net::URI Class Reference

This class represents an instance of a **URI** (p. 2638) as defined by RFC 2396.

#include <src/main/decaf/net/URI.h> Inheritance diagram for decaf::net::URI:

Public Member Functions

- **URI** ()
Default Constructor, same as calling a Constructor with all fields empty.
- **URI** (const **URI** &uri) throw (URISyntaxException)
*Constructs a **URI** (p. 2638) as a copy of another **URI** (p. 2638).*
- **URI** (const std::string &uri) throw (URISyntaxException)
*Constructs a **URI** (p. 2638) from the given string.*
- **URI** (const std::string &scheme, const std::string &ssp, const std::string &fragment) throw (URISyntaxException)
*Constructs a **URI** (p. 2638) from the given components.*
- **URI** (const std::string &scheme, const std::string &userInfo, const std::string &host, int port, const std::string &path, const std::string &query, const std::string &fragment) throw (URISyntaxException)
*Constructs a **URI** (p. 2638) from the given components.*
- **URI** (const std::string &scheme, const std::string &host, const std::string &path, const std::string &fragment) throw (URISyntaxException)
*Constructs a **URI** (p. 2638) from the given components.*
- **URI** (const std::string &scheme, const std::string &authority, const std::string &path, const std::string &query, const std::string &fragment) throw (URISyntaxException)
*Constructs a **URI** (p. 2638) from the given components.*
- virtual ~**URI** ()
- virtual int **compareTo** (const **URI** &value) const
Compares this object with the specified object for order.
- virtual bool **equals** (const **URI** &value) const
- virtual bool **operator==** (const **URI** &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **URI** &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- std::string **getAuthority** () const
- std::string **getFragment** () const
- std::string **getHost** () const

- `std::string getPath () const`
- `int getPort () const`
- `std::string getQuery () const`
- `std::string getScheme () const`
- `std::string getUserInfo () const`
- `std::string getRawAuthority () const`
*Returns the raw authority component of this **URI** (p. 2638).*
- `std::string getRawFragment () const`
*Returns the raw fragment component of this **URI** (p. 2638).*
- `std::string getRawPath () const`
*Returns the raw path component of this **URI** (p. 2638).*
- `std::string getRawQuery () const`
*Returns the raw query component of this **URI** (p. 2638).*
- `std::string getRawSchemeSpecificPart () const`
*Returns the raw scheme-specific part of this **URI** (p. 2638).*
- `std::string getSchemeSpecificPart () const`
*Returns the decoded scheme-specific part of this **URI** (p. 2638).*
- `std::string getRawUserInfo () const`
*Returns the raw user-information component of this **URI** (p. 2638).*
- `bool isAbsolute () const`
*Tells whether or not this **URI** (p. 2638) is absolute.*
- `bool isOpaque () const`
*Tells whether or not this **URI** (p. 2638) is opaque.*
- `URI normalize () const`
*Normalizes this **URI**'s path.*
- `URI parseServerAuthority () const throw (URISyntaxException)`
*Attempts to parse this **URI**'s authority component, if defined, into user-information, host, and port components.*
- `URI relativize (const URI &uri) const`
*Relativizes the given **URI** (p. 2638) against this **URI** (p. 2638).*
- `URI resolve (const std::string &str) const throw (lang::exceptions::IllegalArgumentException)`
*Constructs a new **URI** (p. 2638) by parsing the given string and then resolving it against this **URI** (p. 2638).*
- `URI resolve (const URI &uri) const`
*Resolves the given **URI** (p. 2638) against this **URI** (p. 2638).*

- `std::string toString () const`
*Returns the content of this **URI** (p. 2638) as a string.*
- `URL toURL () const throw (MalformedURLException, lang::exceptions::IllegalArgumentException)`
*Constructs a **URL** (p. 2677) from this **URI** (p. 2638).*

Static Public Member Functions

- `static URI create (const std::string uri) throw (lang::exceptions::IllegalArgumentException)`
*Creates a **URI** (p. 2638) by parsing the given string.*

6.571.1 Detailed Description

This class represents an instance of a **URI** (p. 2638) as defined by RFC 2396.

6.571.2 Constructor & Destructor Documentation

6.571.2.1 `decaf::net::URI::URI ()`

Default Constructor, same as calling a Constructor with all fields empty.

6.571.2.2 `decaf::net::URI::URI (const URI & uri) throw (URISyntaxException)`

Constructs a **URI** (p. 2638) as a copy of another **URI** (p. 2638).

Parameters:

uri - uri to copy

6.571.2.3 `decaf::net::URI::URI (const std::string & uri) throw (URISyntaxException)`

Constructs a **URI** (p. 2638) from the given string.

Parameters:

uri - string uri to parse.

6.571.2.4 `decaf::net::URI::URI (const std::string & scheme, const std::string & ssp, const std::string & fragment) throw (URISyntaxException)`

Constructs a **URI** (p. 2638) from the given components.

Parameters:

scheme - the uri scheme

ssp - Scheme specific part

fragment - Fragment

6.571.2.5 decaf::net::URI::URI (const std::string & *scheme*, const std::string & *userInfo*, const std::string & *host*, int *port*, const std::string & *path*, const std::string & *query*, const std::string & *fragment*) throw (URISyntaxException)

Constructs a **URI** (p. 2638) from the given components.

Parameters:

scheme - Scheme name

userInfo - User name and authorization information

host - Host name

port - Port number

path - Path

query - Query

fragment - Fragment

6.571.2.6 decaf::net::URI::URI (const std::string & *scheme*, const std::string & *host*, const std::string & *path*, const std::string & *fragment*) throw (URISyntaxException)

Constructs a **URI** (p. 2638) from the given components.

Parameters:

scheme - Scheme name

host - Host name

path - Path

fragment - Fragment

6.571.2.7 decaf::net::URI::URI (const std::string & *scheme*, const std::string & *authority*, const std::string & *path*, const std::string & *query*, const std::string & *fragment*) throw (URISyntaxException)

Constructs a **URI** (p. 2638) from the given components.

Parameters:

scheme - Scheme name

authority - Authority

path - Path

query - Query

fragment - Fragment

6.571.2.8 `virtual decaf::net::URI::~~URI ()` [inline, virtual]

6.571.3 Member Function Documentation

6.571.3.1 `virtual int decaf::net::URI::compareTo (const URI & value) const`
[virtual]

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

Parameters:

value - the value to compare to this one.

Returns:

zero if equal minus one if less than and one if greater than.

6.571.3.2 `static URI decaf::net::URI::create (const std::string uri) throw (`
`lang::exceptions::IllegalArgumentException)` [static]

Creates a **URI** (p. 2638) by parsing the given string. This convenience factory method works as if by invoking the `URI(string)` constructor; any **URISyntaxException** (p. 2665) thrown by the constructor is caught and wrapped in a new `IllegalArgumentException` object, which is then thrown.

Parameters:

uri - **URI** (p. 2638) string to parse

Exceptions:

IllegalArgumentException

6.571.3.3 `virtual bool decaf::net::URI::equals (const URI & value) const` [virtual]

Returns:

true if this value is considered equal to the passed value.

6.571.3.4 `std::string decaf::net::URI::getAuthority () const`

Returns:

the decoded authority component of this **URI** (p. 2638).

6.571.3.5 `std::string decaf::net::URI::getFragment () const`

Returns:

the decoded fragment component of this **URI** (p. 2638).

6.571.3.6 std::string decaf::net::URI::getHost () const**Returns:**

the host component of this **URI** (p. 2638).

6.571.3.7 std::string decaf::net::URI::getPath () const**Returns:**

the path component of this **URI** (p. 2638).

6.571.3.8 int decaf::net::URI::getPort () const**Returns:**

the port component of this **URI** (p. 2638).

6.571.3.9 std::string decaf::net::URI::getQuery () const**Returns:**

the query component of this **URI** (p. 2638).

6.571.3.10 std::string decaf::net::URI::getRawAuthority () const

Returns the raw authority component of this **URI** (p. 2638). The authority component of a **URI** (p. 2638), if defined, only contains the commercial-at character ('@') and characters in the unreserved, punct, escaped, and other categories. If the authority is server-based then it is further constrained to have valid user-information, host, and port components.

Returns:

the raw authority component of the **URI** (p. 2638)

6.571.3.11 std::string decaf::net::URI::getRawFragment () const

Returns the raw fragment component of this **URI** (p. 2638). The fragment component of a **URI** (p. 2638), if defined, only contains legal **URI** (p. 2638) characters.

Returns:

the raw fragment component of this **URI** (p. 2638)

6.571.3.12 std::string decaf::net::URI::getRawPath () const

Returns the raw path component of this **URI** (p. 2638). The path component of a **URI** (p. 2638), if defined, only contains the slash character ('/'), the commercial-at character ('@'), and characters in the unreserved, punct, escaped, and other categories.

Returns:

the raw path component of this **URI** (p. 2638)

6.571.3.13 `std::string decaf::net::URI::getRawQuery () const`

Returns the raw query component of this **URI** (p. 2638). The query component of a **URI** (p. 2638), if defined, only contains legal **URI** (p. 2638) characters.

Returns:

the raw query component of the **URI** (p. 2638).

6.571.3.14 `std::string decaf::net::URI::getRawSchemeSpecificPart () const`

Returns the raw scheme-specific part of this **URI** (p. 2638). The scheme-specific part is never undefined, though it may be empty. The scheme-specific part of a **URI** (p. 2638) only contains legal **URI** (p. 2638) characters.

Returns:

the raw scheme special part of the uri

6.571.3.15 `std::string decaf::net::URI::getRawUserInfo () const`

Returns the raw user-information component of this **URI** (p. 2638). The user-information component of a **URI** (p. 2638), if defined, only contains characters in the unreserved, punct, escaped, and other categories.

Returns:

the raw user-information component of the **URI** (p. 2638)

6.571.3.16 `std::string decaf::net::URI::getScheme () const`**Returns:**

the scheme component of this **URI** (p. 2638)

6.571.3.17 `std::string decaf::net::URI::getSchemeSpecificPart () const`

Returns the decoded scheme-specific part of this **URI** (p. 2638). The string returned by this method is equal to that returned by the `getRawSchemeSpecificPart` method except that all sequences of escaped octets are decoded.

Returns:

the raw scheme specific part of the uri.

6.571.3.18 `std::string decaf::net::URI::getUserInfo () const`**Returns:**

the user info component of this **URI** (p. 2638)

6.571.3.19 `bool decaf::net::URI::isAbsolute () const`

Tells whether or not this **URI** (p. 2638) is absolute. A **URI** (p. 2638) is absolute if, and only if, it has a scheme component.

Returns:

true if, and only if, this **URI** (p. 2638) is absolute

6.571.3.20 `bool decaf::net::URI::isOpaque () const`

Tells whether or not this **URI** (p. 2638) is opaque. A **URI** (p. 2638) is opaque if, and only if, it is absolute and its scheme-specific part does not begin with a slash character ('/'). An opaque **URI** (p. 2638) has a scheme, a scheme-specific part, and possibly a fragment; all other components are undefined.

Returns:

true if, and only if, this **URI** (p. 2638) is opaque

6.571.3.21 `URI decaf::net::URI::normalize () const`

Normalizes this **URI**'s path. If this **URI** (p. 2638) is opaque, or if its path is already in normal form, then this **URI** (p. 2638) is returned. Otherwise a new **URI** (p. 2638) is constructed that is identical to this **URI** (p. 2638) except that its path is computed by normalizing this **URI**'s path in a manner consistent with RFC 2396, section 5.2, step 6, sub-steps c through f; that is:

1. All "." segments are removed. 2. If a ".." segment is preceded by a non-".." segment then both of these segments are removed. This step is repeated until it is no longer applicable. 3. If the path is relative, and if its first segment contains a colon character (':'), then a "." segment is prepended. This prevents a relative **URI** (p. 2638) with a path such as "a:b/c/d" from later being re-parsed as an opaque **URI** (p. 2638) with a scheme of "a" and a scheme-specific part of "b/c/d". (Deviation from RFC 2396)

A normalized path will begin with one or more "." segments if there were insufficient non-".." segments preceding them to allow their removal. A normalized path will begin with a "." segment if one was inserted by step 3 above. Otherwise, a normalized path will not contain any "." or ".." segments.

Returns:

A **URI** (p. 2638) equivalent to this **URI** (p. 2638), but whose path is in normal form

6.571.3.22 `virtual bool decaf::net::URI::operator< (const URI & value) const`
[virtual]

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.571.3.23 `virtual bool decaf::net::URI::operator==(const URI & value) const`
[virtual]

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.571.3.24 `URI decaf::net::URI::parseServerAuthority () const throw (`
`URISyntaxException)`

Attempts to parse this URI's authority component, if defined, into user-information, host, and port components. If this URI's authority component has already been recognized as being server-based then it will already have been parsed into user-information, host, and port components. In this case, or if this **URI** (p.2638) has no authority component, this method simply returns this **URI** (p.2638).

Otherwise this method attempts once more to parse the authority component into user-information, host, and port components, and throws an exception describing why the authority component could not be parsed in that way.

Returns:

A **URI** (p.2638) whose authority field has been parsed as a server-based authority

Exceptions:

URISyntaxException (p.2665) - If the authority component of this **URI** (p.2638) is defined but cannot be parsed as a server-based authority.

6.571.3.25 `URI decaf::net::URI::relativize (const URI & uri) const`

Relativizes the given **URI** (p.2638) against this **URI** (p.2638). The relativization of the given **URI** (p.2638) against this **URI** (p.2638) is computed as follows:

1. If either this **URI** (p.2638) or the given **URI** (p.2638) are opaque, or if the scheme and authority components of the two URIs are not identical, or if the path of this **URI** (p.2638) is not a prefix of the path of the given **URI** (p.2638), then the given **URI** (p.2638) is returned.
2. Otherwise a new relative hierarchical **URI** (p.2638) is constructed with query and fragment components taken from the given **URI** (p.2638) and with a path component computed by removing this URI's path from the beginning of the given URI's path.

Parameters:

uri - The **URI** (p. 2638) to be relativized against this **URI** (p. 2638)

Returns:

The resulting **URI** (p. 2638)

6.571.3.26 URI decaf::net::URI::resolve (const URI & uri) const

Resolves the given **URI** (p. 2638) against this **URI** (p. 2638). If the given **URI** (p. 2638) is already absolute, or if this **URI** (p. 2638) is opaque, then a copy of the given **URI** (p. 2638) is returned.

If the given **URI**'s fragment component is defined, its path component is empty, and its scheme, authority, and query components are undefined, then a **URI** (p. 2638) with the given fragment but with all other components equal to those of this **URI** (p. 2638) is returned. This allows a **URI** (p. 2638) representing a standalone fragment reference, such as "#foo", to be usefully resolved against a base **URI** (p. 2638).

Otherwise this method constructs a new hierarchical **URI** (p. 2638) in a manner consistent with RFC 2396, section 5.2; that is:

1. A new **URI** (p. 2638) is constructed with this **URI**'s scheme and the given **URI**'s query and fragment components.
2. If the given **URI** (p. 2638) has an authority component then the new **URI**'s authority and path are taken from the given **URI** (p. 2638).
3. Otherwise the new **URI**'s authority component is copied from this **URI** (p. 2638), and its path is computed as follows:

1. If the given **URI**'s path is absolute then the new **URI**'s path is taken from the given **URI** (p. 2638).
2. Otherwise the given **URI**'s path is relative, and so the new **URI**'s path is computed by resolving the path of the given **URI** (p. 2638) against the path of this **URI** (p. 2638). This is done by concatenating all but the last segment of this **URI**'s path, if any, with the given **URI**'s path and then normalizing the result as if by invoking the `normalize` method.

The result of this method is absolute if, and only if, either this **URI** (p. 2638) is absolute or the given **URI** (p. 2638) is absolute.

Parameters:

uri - The **URI** (p. 2638) to be resolved against this **URI** (p. 2638)

Returns:

The resulting **URI** (p. 2638)

6.571.3.27 URI decaf::net::URI::resolve (const std::string & str) const throw (lang::exceptions::IllegalArgumentException)

Constructs a new **URI** (p. 2638) by parsing the given string and then resolving it against this **URI** (p. 2638). This convenience method works as if invoking it were equivalent to evaluating the expression `resolve(URI::create(str))`.

Parameters:

str - The string to be parsed into a **URI** (p. 2638)

Returns:

The resulting **URI** (p. 2638)

Exceptions:

IllegalArgumentException - If the given string violates RFC 2396

6.571.3.28 std::string decaf::net::URI::toString () const

Returns the content of this **URI** (p. 2638) as a string. If this **URI** (p. 2638) was created by invoking one of the constructors in this class then a string equivalent to the original input string, or to the string computed from the originally-given components, as appropriate, is returned. Otherwise this **URI** (p. 2638) was created by normalization, resolution, or relativization, and so a string is constructed from this **URI**'s components according to the rules specified in RFC 2396, section 5.2, step 7.

Returns:

the string form of this **URI** (p. 2638)

6.571.3.29 URL decaf::net::URI::toURL () const throw (MalformedURLException, lang::exceptions::IllegalArgumentException)

Constructs a **URL** (p. 2677) from this **URI** (p. 2638). This convenience method works as if invoking it were equivalent to evaluating the expression `new URL (p. 2677)(this.toString())` after first checking that this **URI** (p. 2638) is absolute.

Returns:

A **URL** (p. 2677) constructed from this **URI** (p. 2638)

Exceptions:

IllegalArgumentException - If this **URL** (p. 2677) is not absolute

MalformedURLException (p. 1686) - If a protocol handler for the **URL** (p. 2677) could not be found, or if some other error occurred while constructing the **URL** (p. 2677)

The documentation for this class was generated from the following file:

- src/main/decaf/net/**URI.h**

6.572 decaf::internal::net::URIEncoderDecoder Class Reference

```
#include <src/main/decaf/internal/net/URIEncoderDecoder.h>
```

Public Member Functions

- **URIEncoderDecoder** ()
- virtual **~URIEncoderDecoder** ()

Static Public Member Functions

- static void **validate** (const std::string &s, const std::string &legal) throw (decaf::net::URISyntaxException)
Validate a string by checking if it contains any characters other than:.
- static void **validateSimple** (const std::string &s, const std::string &legal) throw (decaf::net::URISyntaxException)
Validate a string by checking if it contains any characters other than:.
- static std::string **quoteIllegal** (const std::string &s, const std::string &legal)
All characters except letters ('a').
- static std::string **encodeOthers** (const std::string &s)
Other characters, which are chars that are not US-ASCII, and are not ISO Control or are not ISO Space chars are not preserved.
- static std::string **decode** (const std::string &s)
Decodes the string argument which is assumed to be encoded in the x-www-form-urlencoded MIME content type using the UTF-8 encoding scheme.

6.572.1 Constructor & Destructor Documentation

6.572.1.1 decaf::internal::net::URIEncoderDecoder::URIEncoderDecoder ()

6.572.1.2 virtual decaf::internal::net::URIEncoderDecoder::~~URIEncoderDecoder () [inline, virtual]

6.572.2 Member Function Documentation

6.572.2.1 static std::string decaf::internal::net::URIEncoderDecoder::decode (const std::string & s) [static]

Decodes the string argument which is assumed to be encoded in the x-www-form-urlencoded MIME content type using the UTF-8 encoding scheme. " and two following hex digit characters are converted to the equivalent byte value. All other characters are passed through unmodified.

e.g. "A%20B%20C %24%25" -> "A B C \$%"

Parameters:

s - The encoded string.

Returns:

The decoded version.

6.572.2.2 `static std::string decaf::internal::net::URIEncoderDecoder::encodeOthers
(const std::string & s) [static]`

Other characters, which are chars that are not US-ASCII, and are not ISO Control or are not ISO Space chars are not preserved. They are converted into their hexadecimal value prepended by ”.

For example: Euro currency symbol -> "%E2%82%AC".

Parameters:

s - the string to be converted

Returns:

the converted string

6.572.2.3 `static std::string decaf::internal::net::URIEncoderDecoder::quoteIllegal
(const std::string & s, const std::string & legal) [static]`

All characters except letters ('a'..'z', 'A'..'Z') and numbers ('0'..'9') and legal characters are converted into their hexadecimal value prepended by ”.

For example: '#' -> 23

Other characters, which are chars that are not US-ASCII, and are not ISO Control or are not ISO Space chars, are preserved.

Parameters:

s - the string to be converted

legal - the characters allowed to be preserved in the string *s*

Returns:

converted string

6.572.2.4 `static void decaf::internal::net::URIEncoderDecoder::validate
(const std::string & s, const std::string & legal) throw (
decaf::net::URISyntaxException) [static]`

Validate a string by checking if it contains any characters other than: 1. letters ('a'..'z', 'A'..'Z') 2. numbers ('0'..'9') 3. characters in the legalset parameter 4. characters that are not ISO Control or are not ISO Space characters)

Parameters:

s - the string to be validated

legal - the characters allowed in the string *s*

6.572.2.5 static void decaf::internal::net::URIEncoderDecoder::validateSimple
(const std::string & *s*, const std::string & *legal*) throw (
decaf::net::URISyntaxException) [static]

Validate a string by checking if it contains any characters other than: 1. letters ('a'..'z', 'A'..'Z')
2. numbers ('0'..'9') 3. characters in the legalset parameter

Parameters:

- s* - the string to be validated
- legal* - the characters allowed in the string *s*

The documentation for this class was generated from the following file:

- src/main/decaf/internal/net/**URIEncoderDecoder.h**

6.573 decaf::internal::net::URIHelper Class Reference

Helper class used by the URI classes in encoding and decoding of URI's.

```
#include <src/main/decaf/internal/net/URIHelper.h>
```

Public Member Functions

- **URIHelper** (const std::string &unreserved, const std::string &punct, const std::string &reserved, const std::string &someLegal, const std::string &allLegal)

*Setup the **URIHelper** (p. 2652) with values assigned to the various fields that are used in the validation process.*

- **URIHelper** ()

Sets up the filter strings with sane defaults.

- virtual ~**URIHelper** ()

- **URIType parseURI** (const std::string &uri, bool forceServer) throw (decaf::net::URISyntaxException)

Parse the passed in URI.

- void **validateScheme** (const std::string &uri, const std::string &scheme, int index) throw (decaf::net::URISyntaxException)

Validate the schema portin of the URI.

- void **validateSsp** (const std::string &uri, const std::string &ssp, std::size_t index) throw (decaf::net::URISyntaxException)

Validate that the URI Ssp Segment contains no invalid encodings.

- void **validateAuthority** (const std::string &uri, const std::string &authority, std::size_t index) throw (decaf::net::URISyntaxException)

Validate that the URI Authority Segment contains no invalid encodings.

- void **validatePath** (const std::string &uri, const std::string &path, std::size_t index) throw (decaf::net::URISyntaxException)

Validate that the URI Path Segment contains no invalid encodings.

- void **validateQuery** (const std::string &uri, const std::string &query, std::size_t index) throw (decaf::net::URISyntaxException)

Validate that the URI Query Segment contains no invalid encodings.

- void **validateFragment** (const std::string &uri, const std::string &fragment, std::size_t index) throw (decaf::net::URISyntaxException)

Validate that the URI fragment contains no invalid encodings.

- **URIType parseAuthority** (bool forceServer, const std::string &authority) throw (decaf::net::URISyntaxException)

determine the host, port and user-info if the authority parses successfully to a server based authority

- void **validateUserinfo** (const std::string &uri, const std::string &userinfo, std::size_t index) throw (decaf::net::URISyntaxException)
Check the supplied user info for validity.
- bool **isValidHost** (bool forceServer, const std::string &host) throw (decaf::net::URISyntaxException)
distinguish between IPv4, IPv6, domain name and validate it based on its type
- bool **isValidDomainName** (const std::string &host)
Validates the string past to determine if it is a well formed domain name.
- bool **isValidIPv4Address** (const std::string &host)
Validate if the host value is a well formed IPv4 address, this is the form XXX.XXX.XXX.XXX were X is any number 0-9.
- bool **isValidIPv6Address** (const std::string &ipAddress)
Determines if the given address is valid according to the IPv6 spec.
- bool **isValidIPv4Word** (const std::string &word)
Check is the string passed contains a Valid IPv4 word, which is an integer in the range of 0 to 255.
- bool **isValidHexChar** (char c)
Determines if the given char is a valid Hex char.

6.573.1 Detailed Description

Helper class used by the URI classes in encoding and decoding of URI's.

6.573.2 Constructor & Destructor Documentation

6.573.2.1 decaf::internal::net::URIHelper::URIHelper (const std::string & *unreserved*, const std::string & *punct*, const std::string & *reserved*, const std::string & *someLegal*, const std::string & *allLegal*)

Setup the **URIHelper** (p. 2652) with values assigned to the various fields that are used in the validation process. The defaults are overridden by these values.

Parameters:

- unreserved* - characters not reserved for use.
- punct* - allowable punctuation symbols.
- reserved* - characters not allowed for general use in the URI.
- someLegal* - characters that are legal in certain cases.
- allLegal* - characters that are always legal.

6.573.2.2 decaf::internal::net::URIHelper::URIHelper ()

Sets up the filter strings with sane defaults.

6.573.2.3 `virtual decaf::internal::net::URIHelper::~~URIHelper () [inline, virtual]`

6.573.3 Member Function Documentation

6.573.3.1 `bool decaf::internal::net::URIHelper::isValidDomainName (const std::string & host)`

Validates the string past to determine if it is a well formed domain name.

Parameters:

host - domain name to validate.

Returns:

true if host is well formed.

6.573.3.2 `bool decaf::internal::net::URIHelper::isValidHexChar (char c)`

Determines if the given char is a valid Hex char. Valid chars are A-F (upper or lower case) and 0-9.

Parameters:

c - char to inspect

Returns:

true if *c* is a valid hex char.

6.573.3.3 `bool decaf::internal::net::URIHelper::isValidHost (bool forceServer, const std::string & host) throw (decaf::net::URISyntaxException)`

distinguish between IPv4, IPv6, domain name and validate it based on its type

Parameters:

forceServer - true if the forceServer mode should be active.

host - Host string to validate.

Returns:

true if the host value if a valid domain name.

Exceptions:

URISyntaxException if the host is invalid and forceServer is true.

6.573.3.4 `bool decaf::internal::net::URIHelper::isValidIP4Word (const std::string & word)`

Check is the string passed contains a Valid IPv4 word, which is an integer in the range of 0 to 255.

Parameters:

word - string value to check.

Returns:

true if the word is a valid IPv4 word.

6.573.3.5 bool decaf::internal::net::URIHelper::isValidIPv6Address (const std::string & *ipAddress*)

Determines if the given address is valid according to the IPv6 spec.

Parameters:

ipAddress - string ip address value to validate.

Returns:

true if the address string is valid.

6.573.3.6 bool decaf::internal::net::URIHelper::isValidIPv4Address (const std::string & *host*)

Validate if the host value is a well formed IPv4 address, this is the form XXX.XXX.XXX.XXX were X is any number 0-9. and XXX is not greater than 255.

Parameters:

host - IPv4 address string to parse.

Returns:

true if host is a well formed IPv4 address.

6.573.3.7 URIType decaf::internal::net::URIHelper::parseAuthority (bool *forceServer*, const std::string & *authority*) throw (decaf::net::URISyntaxException)

determine the host, port and user-info if the authority parses successfully to a server based authority behavior in error cases: if forceServer is true, throw URISyntaxException with the proper diagnostic messages. if forceServer is false assume this is a registry based uri, and just return leaving the host, port and user-info fields undefined.

and there are some error cases where URISyntaxException is thrown regardless of the forceServer parameter e.g. mal-formed ipv6 address

Parameters:

forceServer
authority

Returns:

a URIType (p. 2669) instance containing the parsed data.

Exceptions:

URISyntaxException

6.573.3.8 `URIType decaf::internal::net::URIHelper::parseURI (const std::string & uri, bool forceServer) throw (decaf::net::URISyntaxException)`

Parse the passed in URI.

Parameters:

uri - the URI to Parse

forceServer - if true invalid URI data throws an Exception

Returns:

a `URIType` (p. 2669) instance containing the parsed data.

Exceptions:

URISyntaxException if forceServer is true and the URI is invalid.

6.573.3.9 `void decaf::internal::net::URIHelper::validateAuthority (const std::string & uri, const std::string & authority, std::size_t index) throw (decaf::net::URISyntaxException)`

Validate that the URI Authority Segment contains no invalid encodings.

Parameters:

uri - the full uri.

authority - the Authority to check.

index - position in the uri where Authority starts.

Exceptions:

URISyntaxException if the fragment has errors.

6.573.3.10 `void decaf::internal::net::URIHelper::validateFragment (const std::string & uri, const std::string & fragment, std::size_t index) throw (decaf::net::URISyntaxException)`

Validate that the URI fragment contains no invalid encodings.

Parameters:

uri - the full uri.

fragment - the fragment to check.

index - position in the uri where fragment starts.

Exceptions:

URISyntaxException if the fragment has errors.

6.573.3.11 void decaf::internal::net::URIHelper::validatePath (const std::string & *uri*, const std::string & *path*, std::size_t *index*) throw (decaf::net::URISyntaxException)

Validate that the URI Path Segment contains no invalid encodings.

Parameters:

uri - the full uri.

path - the path to check.

index - position in the uri where path starts.

Exceptions:

URISyntaxException if the fragment has errors.

6.573.3.12 void decaf::internal::net::URIHelper::validateQuery (const std::string & *uri*, const std::string & *query*, std::size_t *index*) throw (decaf::net::URISyntaxException)

Validate that the URI Query Segment contains no invalid encodings.

Parameters:

uri - the full uri.

query - the query to check.

index - position in the uri where fragment starts.

Exceptions:

URISyntaxException if the fragment has errors.

6.573.3.13 void decaf::internal::net::URIHelper::validateScheme (const std::string & *uri*, const std::string & *scheme*, int *index*) throw (decaf::net::URISyntaxException)

Validate the schema portin of the URI.

Parameters:

uri - the URI to check.

scheme - the schema section of the URI.

index - index in uri where schema starts.

Exceptions:

URISyntaxException if the fragment has errors.

6.573.3.14 `void decaf::internal::net::URIHelper::validateSsp (const std::string
& uri, const std::string & ssp, std::size_t index) throw (
decaf::net::URISyntaxException)`

Validate that the URI Ssp Segment contains no invalid encodings.

Parameters:

uri - the full uri.

ssp - the SSP to check.

index - position in the uri where Ssp starts.

Exceptions:

URISyntaxException if the fragment has errors.

6.573.3.15 `void decaf::internal::net::URIHelper::validateUserinfo (const std::string
& uri, const std::string & userinfo, std::size_t index) throw (
decaf::net::URISyntaxException)`

Check the supplied user info for validity.

Parameters:

uri - the uri to parse.

userinfo - supplied user info

index - index into the URI string where the data is located.

Returns:

true if valid

Exceptions:

URISyntaxException if an error occurs

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/net/URIHelper.h`

6.574 activemq::transport::failover::URIPool Class Reference

```
#include <src/main/activemq/transport/failover/URIPool.h>
```

Public Member Functions

- **URIPool** ()
Create an Empty URI Pool.
- **URIPool** (const **decaf::util::List**< **URI** > &uris)
Creates a new URI Pool using the given list as the initial Free List.
- virtual **~URIPool** ()
- **URI** **getURI** () throw (**decaf::lang::exceptions::NoSuchElementException**)
Fetches the next available URI from the pool, if there are no more URIs free when this method is called it throws a `NoSuchElementException`.
- void **addURI** (const **URI** &uri)
Adds a URI to the free list, callers that have previously taken one using the `getURI` method should always return the URI when they close the resource that was connected to that URI.
- void **addURIs** (const **StlList**< **URI** > &uris)
Adds a List of URIs to this Pool, the method checks for duplicates already in the pool and does not add those.
- void **removeURI** (const **URI** &uri)
Remove a given URI from the Free List.
- bool **isRandomize** () const
Is the URI that is given randomly picked from the pool or is each one taken in sequence.
- void **setRandomize** (bool value)
Sets if the URI's that are taken from the pool are chosen Randomly or are taken in the order they are in the list.

6.574.1 Constructor & Destructor Documentation

6.574.1.1 activemq::transport::failover::URIPool::URIPool ()

Create an Empty URI Pool.

6.574.1.2 activemq::transport::failover::URIPool::URIPool (const **decaf::util::List**< **URI** > & *uris*)

Creates a new URI Pool using the given list as the initial Free List.

Parameters:

uris - List of URI to place in the Pool.

6.574.1.3 `virtual activemq::transport::failover::URIPool::~~URIPool ()` [virtual]

6.574.2 Member Function Documentation

6.574.2.1 `void activemq::transport::failover::URIPool::addURI (const URI & uri)`

Adds a URI to the free list, callers that have previously taken one using the `getURI` method should always return the URI when they close the resource that was connected to that URI.

Parameters:

uri - a URI previously taken from the pool.

6.574.2.2 `void activemq::transport::failover::URIPool::addURIs (const StlList< URI > & uris)`

Adds a List of URIs to this Pool, the method checks for duplicates already in the pool and does not add those.

Parameters:

uris - List of URIs to add into the Pool.

6.574.2.3 `URI activemq::transport::failover::URIPool::getURI () throw (decaf::lang::exceptions::NoSuchElementException)`

Fetches the next available URI from the pool, if there are no more URIs free when this method is called it throws a `NoSuchElementException`. Receiving the exception is not an indication that a URI won't be available in the future, the caller should react accordingly.

Returns:

the next free URI in the Pool.

Exceptions:

NoSuchElementException if there are none free currently.

6.574.2.4 `bool activemq::transport::failover::URIPool::isRandomize () const`
 [inline]

Is the URI that is given randomly picked from the pool or is each one taken in sequence.

Returns:

true if URI gets are random.

6.574.2.5 `void activemq::transport::failover::URIPool::removeURI (const URI & uri)`

Remove a given URI from the Free List.

Parameters:

uri - the URI to find and remove from the free list

6.574.2.6 void activemq::transport::failover::URIPool::setRandomize (bool *value*)
[inline]

Sets if the URI's that are taken from the pool are chosen Randomly or are taken in the order they are in the list.

Parameters:

value - true indicates URI gets are random.

The documentation for this class was generated from the following file:

- src/main/activemq/transport/failover/**URIPool.h**

6.575 activemq::util::URISupport Class Reference

```
#include <src/main/activemq/util/URISupport.h>
```

Static Public Member Functions

- static void **parseURL** (const std::string &URI, **decaf::util::Properties** &properties) throw (**decaf::lang::exceptions::IllegalArgumentException**)
Parses the properties out of the provided Broker URI and sets them in the passed Properties Object.
- static **CompositeData** **parseComposite** (const **URI** &uri) throw (**decaf::net::URISyntaxException**)
Parses a Composite URI into a Composite Data instance, the Composite URI takes the for scheme://(uri1,uri2,...uriN)?param1=value1, each of the composite URIs is stored in the CompositeData's internal list.
- static **decaf::util::Properties** **parseQuery** (std::string query) throw (**decaf::lang::exceptions::IllegalArgumentException**)
Parse the Query portion of a URI String and return a Simple Properties object containing the parameter names as keys, and the parameter values and values of the Properties.
- static void **parseQuery** (std::string query, **decaf::util::Properties** *properties) throw (**decaf::lang::exceptions::IllegalArgumentException**)
Parse the Query portion of a URI String and return a Simple Properties object containing the parameter names as keys, and the parameter values and values of the Properties.
- static std::string **createQueryString** (const **Properties** &options) throw (**decaf::net::URISyntaxException**)
Given a properties object create a string that can be appended to a URI as a valid Query string.

6.575.1 Member Function Documentation

6.575.1.1 static std::string **activemq::util::URISupport::createQueryString** (const **Properties** & *options*) throw (**decaf::net::URISyntaxException**)
 [static]

Given a properties object create a string that can be appended to a URI as a valid Query string.

Parameters:

options Properties object containing key / value query values.

Returns:

a valid URI query string.

Exceptions:

URISyntaxException if the string in the Properties object can't be encoded into a valid URI Query string.

6.575.1.2 static CompositeData activemq::util::URISupport::parseComposite (const URI & *uri*) throw (decaf::net::URISyntaxException) [static]

Parses a Composite URI into a Composite Data instance, the Composite URI takes the for scheme://(uri1,uri2,...uriN)?param1=value1, each of the composite URIs is stored in the CompositeData's internal list.

Parameters:

uri - The Composite URI to parse.

Returns:

a new **CompositeData** (p. 904) object with the parsed data

Exceptions:

URISyntaxException if the URI is not well formed.

6.575.1.3 static void activemq::util::URISupport::parseQuery (std::string *query*, decaf::util::Properties * *properties*) throw (decaf::lang::exceptions::IllegalArgumentException) [static]

Parse the Query portion of a URI String and return a Simple Properties object containing the parameter names as keys, and the parameter values and values of the Properties.

Parameters:

query - the query string to parse.

properties - object pointer to get the parsed output.

Exceptions:

IllegalArgumentException if the Query string is not well formed.

6.575.1.4 static decaf::util::Properties activemq::util::URISupport::parseQuery (std::string *query*) throw (decaf::lang::exceptions::IllegalArgumentException) [static]

Parse the Query portion of a URI String and return a Simple Properties object containing the parameter names as keys, and the parameter values and values of the Properties.

Parameters:

query The query string to parse and extract the encoded properties.

Returns:

Properties object with the parsed output.

Exceptions:

IllegalArgumentException if the Query string is not well formed.

6.575.1.5 `static void activemq::util::URISupport::parseURL (const
std::string & URI, decaf::util::Properties & properties) throw (
decaf::lang::exceptions::IllegalArgumentException) [static]`

Parses the properties out of the provided Broker URI and sets them in the passed Properties Object.

Parameters:

URI a Broker URI to parse

properties a Properties object to set the parsed values in

Exceptions:

IllegalArgumentException if the passed URI is invalid

The documentation for this class was generated from the following file:

- `src/main/activemq/util/URISupport.h`

6.576 decaf::net::URISyntaxException Class Reference

#include <src/main/decaf/net/URISyntaxException.h> Inheritance diagram for decaf::net::URISyntaxException:

Public Member Functions

- **URISyntaxException** () throw ()
Default Constructor.
- **URISyntaxException** (const Exception &ex) throw ()
Conversion Constructor from some other Exception.
- **URISyntaxException** (const **URISyntaxException** &ex) throw ()
Copy Constructor.
- **URISyntaxException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **URISyntaxException** (const std::exception *cause) throw ()
Constructor.
- **URISyntaxException** (const char *file, const int lineNumber, const char *msg DECAF_ - UNUSED) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **URISyntaxException** (const char *file, const int lineNumber, const std::string &input, const std::string &reason) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **URISyntaxException** (const char *file, const int lineNumber, const std::string &input, const std::string &reason, std::size_t index) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- virtual **URISyntaxException** * **clone** () const
Clones this exception.
- virtual ~**URISyntaxException** () throw ()
- std::string **getInput** () const
- std::string **getReason** () const
- std::size_t **getIndex** () const

6.576.1 Constructor & Destructor Documentation

6.576.1.1 decaf::net::URISyntaxException::URISyntaxException () throw () [inline]

Default Constructor.

6.576.1.2 `decaf::net::URISyntaxException::URISyntaxException (const Exception & ex) throw () [inline]`

Conversion Constructor from some other Exception.

Parameters:

ex An exception that should become this type of Exception

6.576.1.3 `decaf::net::URISyntaxException::URISyntaxException (const URISyntaxException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex An exception that should become this type of Exception

6.576.1.4 `decaf::net::URISyntaxException::URISyntaxException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.576.1.5 `decaf::net::URISyntaxException::URISyntaxException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.576.1.6 `decaf::net::URISyntaxException::URISyntaxException (const char * file, const int lineNumber, const char *msg DECAF_UNUSED) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs
lineNumber The line number where the exception occurred.
msg The message to report
... list of primitives that are formatted into the message

6.576.1.7 decaf::net::URISyntaxException::URISyntaxException (const char * *file*, const int *lineNumber*, const std::string & *input*, const std::string & *reason*) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the input string that caused the error and the reason for the error.

Parameters:

file The file name where exception occurs.
lineNumber The line number where the exception occurred.
input The **URL** (p.2677) that caused the exception.
reason The reason for the failure.

6.576.1.8 decaf::net::URISyntaxException::URISyntaxException (const char * *file*, const int *lineNumber*, const std::string & *input*, const std::string & *reason*, std::size_t *index*) throw () [inline]

Constructor - Initializes the file name and line number where this message occurred. Sets the input string that caused the error and the reason for the error.

Parameters:

file The file name where exception occurs
lineNumber The line number where the exception occurred.
input The input **URI** (p.2638) that caused the exception
reason The reason for the failure.
index The index in the **URI** (p.2638) string where the error occurred.

6.576.1.9 virtual decaf::net::URISyntaxException::~~URISyntaxException () throw () [inline, virtual]

6.576.2 Member Function Documentation

6.576.2.1 virtual URISyntaxException* decaf::net::URISyntaxException::clone () const [inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

a new Exception instance that is a copy of this Exception object.

Reimplemented from **decaf::lang::Exception** (p.1271).

6.576.2.2 `std::size_t decaf::net::URISyntaxException::getIndex () const [inline]`

Returns:

the index in the input string where the error occurred or -1

6.576.2.3 `std::string decaf::net::URISyntaxException::getInput () const [inline]`

Returns:

the Input string that cause this exception or ""

6.576.2.4 `std::string decaf::net::URISyntaxException::getReason () const [inline]`

Returns:

the Reason given for this failure, or ""

The documentation for this class was generated from the following file:

- `src/main/decaf/net/URISyntaxException.h`

6.577 decaf::internal::net::URIType Class Reference

Basic type object that holds data that composes a given URI.

```
#include <src/main/decaf/internal/net/URIType.h>
```

Public Member Functions

- **URIType** (const std::string &source)
- **URIType** ()
- virtual ~**URIType** ()
- std::string **getSource** () const
*Gets the source URI string that was parsed to obtain this **URIType** (p. 2669) instance and the resulting data,.*
- void **setSource** (const std::string &source)
*Sets the source URI string that was parsed to obtain this **URIType** (p. 2669) instance and the resulting data,.*
- std::string **getScheme** () const
Gets the Scheme of the URI, e.g.
- void **setScheme** (const std::string &scheme)
Sets the Scheme of the URI, e.g.
- std::string **getSchemeSpecificPart** () const
Gets the Scheme Specific Part of the URI.
- void **setSchemeSpecificPart** (const std::string &schemeSpecificPart)
Sets the Scheme Specific Part of the URI.
- std::string **getAuthority** () const
Gets the Authority of the URI.
- void **setAuthority** (const std::string &authority)
Sets the Authority of the URI.
- std::string **getUserInfo** () const
Gets the user info part of the URI, e.g.
- void **setUserInfo** (const std::string &userinfo)
Sets the user info part of the URI, e.g.
- std::string **getHost** () const
Gets the Host name part of the URI.
- void **setHost** (const std::string &host)
Sets the Host name part of the URI.
- int **getPort** () const

Gets the port part of the URI.

- void **setPort** (int port)
Sets the port part of the URI.
- std::string **getPath** () const
Gets the Path part of the URI.
- void **setPath** (const std::string &path)
Sets the Path part of the URI.
- std::string **getQuery** () const
Gets the Query part of the URI.
- void **setQuery** (const std::string &query)
Sets the Query part of the URI.
- std::string **getFragment** () const
Gets the Fragment part of the URI.
- void **setFragment** (const std::string &fragment)
Sets the Fragment part of the URI.
- bool **isOpaque** () const
Gets if the URI is Opaque.
- void **setOpaque** (bool opaque)
Sets if the URI is Opaque.
- bool **isAbsolute** () const
Gets if the URI is Absolute.
- void **setAbsolute** (bool absolute)
Sets if the URI is Absolute.
- bool **isServerAuthority** () const
Gets if the URI is a Server Authority.
- void **setServerAuthority** (bool serverAuthority)
Sets if the URI is a Server Authority.
- bool **isValid** () const
Gets if the URI is valid, meaning that the source has been set and parsed and all relevant data fields have been set.
- void **setValid** (bool valid)
Sets if the URI is valid, meaning that the source has been set and parsed and all relevant data fields have been set.

6.577.1 Detailed Description

Basic type object that holds data that composes a given URI.

6.577.2 Constructor & Destructor Documentation

6.577.2.1 `decaf::internal::net::URIType::URIType (const std::string & source)` `[inline]`

6.577.2.2 `decaf::internal::net::URIType::URIType ()` `[inline]`

6.577.2.3 `virtual decaf::internal::net::URIType::~~URIType ()` `[inline, virtual]`

6.577.3 Member Function Documentation

6.577.3.1 `std::string decaf::internal::net::URIType::getAuthority () const` `[inline]`

Gets the Authority of the URI.

Returns:

Authority part string.

6.577.3.2 `std::string decaf::internal::net::URIType::getFragment () const` `[inline]`

Gets the Fragment part of the URI.

Returns:

Fragment part string.

6.577.3.3 `std::string decaf::internal::net::URIType::getHost () const` `[inline]`

Gets the Host name part of the URI.

Returns:

Host name part string.

6.577.3.4 `std::string decaf::internal::net::URIType::getPath () const` `[inline]`

Gets the Path part of the URI.

Returns:

Path part string.

6.577.3.5 `int decaf::internal::net::URIType::getPort () const [inline]`

Gets the port part of the URL.

Returns:

port part string, -1 if not set.

6.577.3.6 `std::string decaf::internal::net::URIType::getQuery () const [inline]`

Gets the Query part of the URL.

Returns:

Query part string.

6.577.3.7 `std::string decaf::internal::net::URIType::getScheme () const [inline]`

Gets the Scheme of the URL, e.g. scheme ("http"/"ftp"/...).

Returns:

scheme part string.

6.577.3.8 `std::string decaf::internal::net::URIType::getSchemeSpecificPart () const [inline]`

Gets the Scheme Specific Part of the URL.

Returns:

scheme specific part string.

6.577.3.9 `std::string decaf::internal::net::URIType::getSource () const [inline]`

Gets the source URI string that was parsed to obtain this **URIType** (p.2669) instance and the resulting data,.

Returns:

the source URI string

6.577.3.10 `std::string decaf::internal::net::URIType::getUserInfo () const [inline]`

Gets the user info part of the URL, e.g. user name, as in `http://user:passwd@host:port/`

Returns:

user info part string.

6.577.3.11 `bool decaf::internal::net::URIType::isAbsolute () const [inline]`

Gets if the URI is Absolute.

Returns:

true if Absolute.

6.577.3.12 `bool decaf::internal::net::URIType::isOpaque () const [inline]`

Gets if the URI is Opaque.

Returns:

true if opaque.

6.577.3.13 `bool decaf::internal::net::URIType::isServerAuthority () const [inline]`

Gets if the URI is a Server Authority.

Returns:

true if Server Authority.

6.577.3.14 `bool decaf::internal::net::URIType::isValid () const [inline]`

Gets if the URI is valid, meaning that the source has been set and parsed and all relevant data fields have been set.

Returns:

true if the **URIType** (p. 2669) contains valid data.

6.577.3.15 `void decaf::internal::net::URIType::setAbsolute (bool absolute) [inline]`

Sets if the URI is Absolute.

Parameters:

absolute - true if Absolute.

6.577.3.16 `void decaf::internal::net::URIType::setAuthority (const std::string & authority) [inline]`

Sets the Authority of the URI.

Parameters:

authority Authority part string.

6.577.3.17 `void decaf::internal::net::URIType::setFragment (const std::string & fragment)` [inline]

Sets the Fragment part of the URI.

Parameters:

fragment - Fragment part string.

6.577.3.18 `void decaf::internal::net::URIType::setHost (const std::string & host)` [inline]

Sets the Host name part of the URI.

Parameters:

host - Host name part string.

6.577.3.19 `void decaf::internal::net::URIType::setOpaque (bool opaque)` [inline]

Sets if the URI is Opaque.

Parameters:

opaque true if opaque.

6.577.3.20 `void decaf::internal::net::URIType::setPath (const std::string & path)` [inline]

Sets the Path part of the URI.

Parameters:

path - Path part string.

6.577.3.21 `void decaf::internal::net::URIType::setPort (int port)` [inline]

Sets the port part of the URI.

Parameters:

port - port part string, -1 if not set.

6.577.3.22 `void decaf::internal::net::URIType::setQuery (const std::string & query)` [inline]

Sets the Query part of the URI.

Parameters:

query - Query part string.

6.577.3.23 void decaf::internal::net::URIType::setScheme (const std::string & *scheme*) [inline]

Sets the Scheme of the URI, e.g. scheme ("http"/"ftp"/...).

Parameters:

scheme - scheme part string.

6.577.3.24 void decaf::internal::net::URIType::setSchemeSpecificPart (const std::string & *schemeSpecificPart*) [inline]

Sets the Scheme Specific Part of the URI.

Parameters:

schemeSpecificPart - scheme specific part string.

6.577.3.25 void decaf::internal::net::URIType::setServerAuthority (bool *serverAuthority*) [inline]

Sets if the URI is a Server Authority.

Parameters:

serverAuthority - true if Server Authority.

6.577.3.26 void decaf::internal::net::URIType::setSource (const std::string & *source*) [inline]

Sets the source URI string that was parsed to obtain this **URIType** (p. 2669) instance and the resulting data,.

Parameters:

source - the source URI string

6.577.3.27 void decaf::internal::net::URIType::setUserInfo (const std::string & *userinfo*) [inline]

Sets the user info part of the URI, e.g. user name, as in http://user:passwd@host:port/

Parameters:

userinfo - user info part string.

6.577.3.28 void decaf::internal::net::URIType::setValid (bool *valid*) [inline]

Sets if the URI is valid, meaning that the source has been set and parsed and all relevant data fields have been set.

Parameters:

valid - true if the **URIType** (p. 2669) contains valid data.

The documentation for this class was generated from the following file:

- `src/main/decaf/internal/net/URIType.h`

6.578 decaf::net::URL Class Reference

Class **URL** (p.2677) represents a Uniform Resource Locator, a pointer to a "resource" on the World Wide Web.

```
#include <src/main/decaf/net/URL.h>
```

Public Member Functions

- **URL** ()
- **URL** (const std::string &url)
- virtual ~**URL** ()

6.578.1 Detailed Description

Class **URL** (p.2677) represents a Uniform Resource Locator, a pointer to a "resource" on the World Wide Web. A resource can be something as simple as a file or a directory, or it can be a reference to a more complicated object, such as a query to a database or to a search engine. More information on the types of URLs and their formats can be found at:

```
http://www.ksc.nasa.gov/facts/internet/url-primer.html
```

In general, a **URL** (p.2677) can be broken into several parts. The previous example of a **URL** (p.2677) indicates that the protocol to use is http (HyperText Transfer Protocol) and that the information resides on a host machine named www.ksc.nasa.gov. The information on that host machine is named /facts/internet/url-primer.html. The exact meaning of this name on the host machine is both protocol dependent and host dependent. The information normally resides in a file, but it could be generated on the fly. This component of the **URL** (p.2677) is called the path component.

A **URL** (p.2677) can optionally specify a "port", which is the port number to which the TCP connection is made on the remote host machine. If the port is not specified, the default port for the protocol is used instead. For example, the default port for http is 80. An alternative port could be specified as:

```
http://www.ksc.nasa.gov:80/facts/internet/url-primer.html
```

The syntax of **URL** (p.2677) is defined by RFC 2396: Uniform Resource Identifiers (**URI** (p.2638)): Generic Syntax, amended by RFC 2732: Format for Literal IPv6 Addresses in URLs. The Literal IPv6 address format also supports scope_ids. The syntax and usage of scope_ids is described here.

A **URL** (p.2677) may have appended to it a "fragment", also known as a "ref" or a "reference". The fragment is indicated by the sharp sign character "#" followed by more characters. For example,

```
http://www.apache.org/cms/index.html#chapter1
```

This fragment is not technically part of the **URL** (p.2677). Rather, it indicates that after the specified resource is retrieved, the application is specifically interested in that part of the document that has the tag chapter1 attached to it. The meaning of a tag is resource specific.

An application can also specify a "relative URL", which contains only enough information to reach the resource relative to another **URL** (p.2677). Relative URLs are frequently used within HTML pages. For example, if the contents of the **URL** (p.2677):

```
http://www.apache.org/cms/index.html
```

contained within it the relative **URL** (p. 2677):

FAQ.html

it would be a shorthand for:

`http://www.apache.org/cms/FAQ.html`

The relative **URL** (p. 2677) need not specify all the components of a **URL** (p. 2677). If the protocol, host name, or port number is missing, the value is inherited from the fully specified **URL** (p. 2677). The file component must be specified. The optional fragment is not inherited.

The **URL** (p. 2677) class does not itself encode or decode any **URL** (p. 2677) components according to the escaping mechanism defined in RFC2396. It is the responsibility of the caller to encode any fields, which need to be escaped prior to calling **URL** (p. 2677), and also to decode any escaped fields, that are returned from **URL** (p. 2677). Furthermore, because **URL** (p. 2677) has no knowledge of **URL** (p. 2677) escaping, it does not recognise equivalence between the encoded or decoded form of the same **URL** (p. 2677). For example, the two URLs:

`http://foo.com/hello world/` and `http://foo.com/hello%20world`

would be considered not equal to each other.

Note, the **URI** (p. 2638) class does perform escaping of its component fields in certain circumstances. The recommended way to manage the encoding and decoding of URLs is to use **URI** (p. 2638), and to convert between these two classes using `toURI()` and `URI.toURL()` (p. 2648).

The **URLEncoder** (p. 2680) and **URLDecoder** (p. 2679) classes can also be used, but only for HTML form encoding, which is not the same as the encoding scheme defined in RFC2396.

6.578.2 Constructor & Destructor Documentation

6.578.2.1 `decaf::net::URL::URL ()`

6.578.2.2 `decaf::net::URL::URL (const std::string & url)`

6.578.2.3 `virtual decaf::net::URL::~~URL ()` [inline, virtual]

The documentation for this class was generated from the following file:

- `src/main/decaf/net/URL.h`

6.579 decaf::net::URLDecoder Class Reference

```
#include <src/main/decaf/net/URLDecoder.h>
```

Public Member Functions

- virtual `~URLDecoder ()`

Static Public Member Functions

- static `std::string decode (const std::string &value)`
Decodes the string argument which is assumed to be encoded in the `x-www-form-urlencoded` MIME content type.

6.579.1 Constructor & Destructor Documentation

6.579.1.1 virtual `decaf::net::URLDecoder::~~URLDecoder ()` [inline, virtual]

6.579.2 Member Function Documentation

6.579.2.1 static `std::string decaf::net::URLDecoder::decode (const std::string &value)` [static]

Decodes the string argument which is assumed to be encoded in the `x-www-form-urlencoded` MIME content type. '+' will be converted to space, '%' and two following hex digit characters are converted to the equivalent byte value. All other characters are passed through unmodified.

e.g. "A+B+C %24%25" -> "A B C \$%"

Parameters:

value - string The encoded string.

Returns:

The decoded version as a string.

The documentation for this class was generated from the following file:

- `src/main/decaf/net/URLDecoder.h`

6.580 decaf::net::URLEncoder Class Reference

```
#include <src/main/decaf/net/URLEncoder.h>
```

Public Member Functions

- virtual `~URLEncoder()`

Static Public Member Functions

- static `std::string encode(const std::string &value)`

This class contains a utility method for converting a string to the format required by the `application/x-www-form-urlencoded` MIME content type.

6.580.1 Constructor & Destructor Documentation

6.580.1.1 virtual `decaf::net::URLEncoder::~~URLEncoder()` [inline, virtual]

6.580.2 Member Function Documentation

6.580.2.1 static `std::string decaf::net::URLEncoder::encode(const std::string &value)` [static]

This class contains a utility method for converting a string to the format required by the `application/x-www-form-urlencoded` MIME content type. All characters except letters ('a'..'z', 'A'..'Z') and numbers ('0'..'9') and characters '.', '-', '*', '_' are converted into their hexadecimal value prepended by ".

For example: '#' -> 23

In addition, spaces are substituted by '+'

Parameters:

value - the string to be converted

Returns:

the converted string

The documentation for this class was generated from the following file:

- `src/main/decaf/net/URLEncoder.h`

6.581 activemq::util::Usage Class Reference

#include <src/main/activemq/util/Usage.h> Inheritance diagram for activemq::util::Usage:

Public Member Functions

- virtual `~Usage ()`
- virtual void `waitForSpace ()=0`
*Waits forever for more space to be returned to this **Usage** (p. 2681) Manager.*
- virtual void `waitForSpace (unsigned int timeout)=0`
*Waits for more space to be returned to this **Usage** (p. 2681) Manager, times out when the given time span in milliseconds elapses.*
- virtual void `enqueueUsage (unsigned long long value)=0`
Tries to increase the usage by value amount but blocks if this object is currently full.
- virtual void `increaseUsage (unsigned long long value)=0`
Increases the usage by the value amount.
- virtual void `decreaseUsage (unsigned long long value)=0`
Decreases the usage by the value amount.
- virtual bool `isFull () const =0`
*Returns true if this **Usage** (p. 2681) instance is full, i.e.*

6.581.1 Constructor & Destructor Documentation

6.581.1.1 virtual `activemq::util::Usage::~~Usage ()` [inline, virtual]

6.581.2 Member Function Documentation

6.581.2.1 virtual void `activemq::util::Usage::decreaseUsage (unsigned long long value)` [pure virtual]

Decreases the usage by the value amount.

Parameters:

value Amount of space to return to the pool

Implemented in `activemq::util::MemoryUsage` (p. 1734).

6.581.2.2 virtual void `activemq::util::Usage::enqueueUsage (unsigned long long value)` [pure virtual]

Tries to increase the usage by value amount but blocks if this object is currently full.

Parameters:

value Amount of usage in bytes to add.

Implemented in **activemq::util::MemoryUsage** (p. 1734).

6.581.2.3 virtual void activemq::util::Usage::increaseUsage (unsigned long long *value*) [pure virtual]

Increases the usage by the value amount.

Parameters:

value Amount of usage to add.

Implemented in **activemq::util::MemoryUsage** (p. 1735).

6.581.2.4 virtual bool activemq::util::Usage::isFull () const [pure virtual]

Returns true if this **Usage** (p. 2681) instance is full, i.e. **Usage** (p. 2681) $\geq 100\%$

Returns:

true if **Usage** (p. 2681) is at the Full point.

Implemented in **activemq::util::MemoryUsage** (p. 1735).

6.581.2.5 virtual void activemq::util::Usage::waitForSpace (unsigned int *timeout*) [pure virtual]

Waits for more space to be returned to this **Usage** (p. 2681) Manager, times out when the given time span in milliseconds elapses.

Parameters:

timeout The time to wait for more space.

Implemented in **activemq::util::MemoryUsage** (p. 1735).

6.581.2.6 virtual void activemq::util::Usage::waitForSpace () [pure virtual]

Waits forever for more space to be returned to this **Usage** (p. 2681) Manager.

Implemented in **activemq::util::MemoryUsage** (p. 1736).

The documentation for this class was generated from the following file:

- `src/main/activemq/util/Usage.h`

6.582 decaf::io::UTFDataFormatException Class Reference

Thrown from classes that attempt to read or write a UTF-8 encoded string and an encoding error is encountered.

#include <src/main/decaf/io/UTFDataFormatException.h>Inheritance diagram for decaf::io::UTFDataFormatException:

Public Member Functions

- **UTFDataFormatException** () throw ()
Default Constructor.
- **UTFDataFormatException** (const lang::Exception &ex) throw ()
Copy Constructor.
- **UTFDataFormatException** (const UTFDataFormatException &ex) throw ()
Copy Constructor.
- **UTFDataFormatException** (const char *file, const int lineNumber, const std::exception *cause, const char *msg,...) throw ()
Constructor - Initializes the file name and line number where this message occurred.
- **UTFDataFormatException** (const std::exception *cause) throw ()
Constructor.
- **UTFDataFormatException** (const char *file, const int lineNumber, const char *msg,...) throw ()
Constructor.
- virtual **UTFDataFormatException * clone** () const
Clones this exception.
- virtual ~**UTFDataFormatException** () throw ()

6.582.1 Detailed Description

Thrown from classes that attempt to read or write a UTF-8 encoded string and an encoding error is encountered.

Since:

1.0

6.582.2 Constructor & Destructor Documentation

6.582.2.1 decaf::io::UTFDataFormatException::UTFDataFormatException () throw () [inline]

Default Constructor.

6.582.2.2 `decaf::io::UTFDataFormatException::UTFDataFormatException (const lang::Exception & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex the exception to copy

6.582.2.3 `decaf::io::UTFDataFormatException::UTFDataFormatException (const UTFDataFormatException & ex) throw () [inline]`

Copy Constructor.

Parameters:

ex the exception to copy, which is an instance of this type

6.582.2.4 `decaf::io::UTFDataFormatException::UTFDataFormatException (const char * file, const int lineNumber, const std::exception * cause, const char * msg, ...) throw () [inline]`

Constructor - Initializes the file name and line number where this message occurred. Sets the message to report, using an optional list of arguments to parse into the message

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

cause The exception that was the cause for this one to be thrown.

msg The message to report

... list of primitives that are formatted into the message

6.582.2.5 `decaf::io::UTFDataFormatException::UTFDataFormatException (const std::exception * cause) throw () [inline]`

Constructor.

Parameters:

cause Pointer to the exception that caused this one to be thrown, the object is cloned caller retains ownership.

6.582.2.6 `decaf::io::UTFDataFormatException::UTFDataFormatException (const char * file, const int lineNumber, const char * msg, ...) throw () [inline]`

Constructor.

Parameters:

file The file name where exception occurs

lineNumber The line number where the exception occurred.

msg The message to report

... list of primitives that are formatted into the message

6.582.2.7 virtual decaf::io::UTFDataFormatException::~~UTFDataFormatException
() throw () [inline, virtual]

6.582.3 Member Function Documentation

6.582.3.1 virtual UTFDataFormatException* decaf::io::UTFDataFormatException::clone () const
[inline, virtual]

Clones this exception. This is useful for cases where you need to preserve the type of the original exception as well as the message. All subclasses should override.

Returns:

A new instance of an Exception object that is a copy of this instance.

Reimplemented from **decaf::io::IOException** (p. 1479).

The documentation for this class was generated from the following file:

- src/main/decaf/io/UTFDataFormatException.h

6.583 decaf::util::UUID Class Reference

A class that represents an immutable universally unique identifier (**UUID** (p. 2686)).

#include <src/main/decaf/util/UUID.h> Inheritance diagram for decaf::util::UUID:

Public Member Functions

- **UUID** (long long mostSigBits, long long leastSigBits)
*Constructs a new **UUID** (p. 2686) using the specified data.*
- virtual ~**UUID** ()
- virtual int **compareTo** (const **UUID** &value) const
*Compare the given **UUID** (p. 2686) to this one.*
- virtual bool **equals** (const **UUID** &value) const
*Compares this **UUID** (p. 2686) to the one given, returns true if they are equal.*
- virtual bool **operator==** (const **UUID** &value) const
Compares equality between this object and the one passed.
- virtual bool **operator<** (const **UUID** &value) const
Compares this object to another and returns true if this object is considered to be less than the one passed.
- virtual std::string **toString** () const
*Returns a String object representing this **UUID** (p. 2686).*
- virtual long long **getLeastSignificantBits** () const
- virtual long long **getMostSignificantBits** () const
- virtual long long **node** () throw (lang::exceptions::UnsupportedOperationException)
*The node value associated with this **UUID** (p. 2686).*
- virtual long long **timestamp** () throw (lang::exceptions::UnsupportedOperationException)
*The timestamp value associated with this **UUID** (p. 2686).*
- virtual int **clockSequence** () throw (lang::exceptions::UnsupportedOperationException)
*The clock sequence value associated with this **UUID** (p. 2686).*
- virtual int **variant** () throw (lang::exceptions::UnsupportedOperationException)
*The variant number associated with this **UUID** (p. 2686).*
- virtual int **version** () throw (lang::exceptions::UnsupportedOperationException)
*The version number associated with this **UUID** (p. 2686).*

Static Public Member Functions

- static **UUID** randomUUID ()
*Static factory to retrieve a type 4 (pseudo randomly generated) **UUID** (p. 2686).*
- static **UUID** nameUUIDFromBytes (const std::vector< char > &name)
*Static factory to retrieve a type 3 (name based) **UUID** (p. 2686) based on the specified byte array.*
- static **UUID** nameUUIDFromBytes (const char *name, std::size_t size)
*Static factory to retrieve a type 3 (name based) **UUID** (p. 2686) based on the specified byte array.*
- static **UUID** fromString (const std::string &name) throw (lang::exceptions::IllegalArgumentException)
*Creates a **UUID** (p. 2686) from the string standard representation as described in the toString() (p. 2691) method.*

6.583.1 Detailed Description

A class that represents an immutable universally unique identifier (**UUID** (p. 2686)). A **UUID** (p. 2686) represents a 128-bit value.

There exist different variants of these global identifiers. The methods of this class are for manipulating the Leach-Salz variant, although the constructors allow the creation of any variant of **UUID** (p. 2686) (described below).

The layout of a variant 2 (Leach-Salz) **UUID** (p. 2686) is as follows: The most significant long consists of the following unsigned fields:

```
0xFFFFFFFF00000000 time_low 0x00000000FFFF0000 time_mid 0x000000000000F000 version
0x00000000000000FF time_hi
```

The least significant long consists of the following unsigned fields:

```
0xC000000000000000 variant 0x3FFF000000000000 clock_seq 0x0000FFFFFFFFFFFF node
```

The variant field contains a value which identifies the layout of the **UUID** (p. 2686). The bit layout described above is valid only for a **UUID** (p. 2686) with a variant value of 2, which indicates the Leach-Salz variant.

The version field holds a value that describes the type of this **UUID** (p. 2686). There are four different basic types of UUIDs: time-based, DCE **security** (p. 107), name-based, and randomly generated UUIDs. These types have a version value of 1, 2, 3 and 4, respectively.

For more information including algorithms used to create UUIDs, see the Internet-Draft UUIDs and GUIDs or the standards body definition at ISO/IEC 11578:1996.

6.583.2 Constructor & Destructor Documentation

6.583.2.1 decaf::util::UUID::UUID (long long *mostSigBits*, long long *leastSigBits*)

Constructs a new **UUID** (p. 2686) using the specified data. *mostSigBits* is used for the most significant 64 bits of the **UUID** (p. 2686) and *leastSigBits* becomes the least significant 64 bits of the **UUID** (p. 2686).

Parameters:*mostSigBits**leastSigBits***6.583.2.2** `virtual decaf::util::UUID::~~UUID ()` [virtual]**6.583.3 Member Function Documentation****6.583.3.1** `virtual int decaf::util::UUID::clockSequence () throw (lang::exceptions::UnsupportedOperationException)` [virtual]

The clock sequence value associated with this **UUID** (p.2686). The 14 bit clock sequence value is constructed from the clock sequence field of this **UUID** (p.2686). The clock sequence field is used to guarantee temporal uniqueness in a time-based **UUID** (p.2686).

The clockSequence value is only meaningful in a time-based **UUID** (p.2686), which has version type 1. If this **UUID** (p.2686) is not a time-based **UUID** (p.2686) then this method throws `UnsupportedOperationException`.

Returns:

the clockSequeunce associated with a V1 **UUID** (p.2686)

Exceptions:*`UnsupportedOperationException`***6.583.3.2** `virtual int decaf::util::UUID::compareTo (const UUID & value) const` [virtual]

Compare the given **UUID** (p.2686) to this one.

Parameters:*value* - the **UUID** (p.2686) to compare to**6.583.3.3** `virtual bool decaf::util::UUID::equals (const UUID & value) const` [virtual]

Compares this **UUID** (p.2686) to the one given, returns true if they are equal.

Parameters:*value* - the **UUID** (p.2686) to compare to.**Returns:**

true if UUIDs are the same.

6.583.3.4 `static UUID decaf::util::UUID::fromString (const std::string & name)
 throw (lang::exceptions::IllegalArgumentException) [static]`

Creates a **UUID** (p. 2686) from the string standard representation as described in the **toString()** (p. 2691) method.

Parameters:

name - a string to be used to construct a **UUID** (p. 2686).

Returns:

type 3 **UUID** (p. 2686)

6.583.3.5 `virtual long long decaf::util::UUID::getLeastSignificantBits () const
 [virtual]`

Returns:

the most significant 64 bits of this UUID's 128 bit value.

6.583.3.6 `virtual long long decaf::util::UUID::getMostSignificantBits () const
 [virtual]`

Returns:

the most significant 64 bits of this UUID's 128 bit value.

6.583.3.7 `static UUID decaf::util::UUID::nameUUIDFromBytes (const char *
 name, std::size_t size) [static]`

Static factory to retrieve a type 3 (name based) **UUID** (p. 2686) based on the specified byte array.

Parameters:

name - a byte array to be used to construct a **UUID** (p. 2686).

size - the size of the byte array, or number of bytes to use.

Returns:

type 3 **UUID** (p. 2686)

6.583.3.8 `static UUID decaf::util::UUID::nameUUIDFromBytes (const std::vector<
 char > & name) [static]`

Static factory to retrieve a type 3 (name based) **UUID** (p. 2686) based on the specified byte array.

Parameters:

name - a byte array to be used to construct a **UUID** (p. 2686).

Returns:

type 3 **UUID** (p. 2686)

6.583.3.9 `virtual long long decaf::util::UUID::node () throw (lang::exceptions::UnsupportedOperationException) [virtual]`

The node value associated with this **UUID** (p. 2686). The 48 bit node value is constructed from the node field of this **UUID** (p. 2686). This field is intended to hold the IEEE 802 address of the machine that generated this **UUID** (p. 2686) to guarantee spatial uniqueness.

The node value is only meaningful in a time-based **UUID** (p. 2686), which has version type 1. If this **UUID** (p. 2686) is not a time-based **UUID** (p. 2686) then this method throws `UnsupportedOperationException`.

Returns:

the node value of this **UUID** (p. 2686)

Exceptions:

`UnsupportedOperationException`

6.583.3.10 `virtual bool decaf::util::UUID::operator< (const UUID & value) const [virtual]`

Compares this object to another and returns true if this object is considered to be less than the one passed. This

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.583.3.11 `virtual bool decaf::util::UUID::operator== (const UUID & value) const [virtual]`

Compares equality between this object and the one passed.

Parameters:

value - the value to be compared to this one.

Returns:

true if this object is equal to the one passed.

6.583.3.12 `static UUID decaf::util::UUID::randomUUID () [static]`

Static factory to retrieve a type 4 (pseudo randomly generated) **UUID** (p. 2686). The **UUID** (p. 2686) is generated using a cryptographically strong pseudo random number generator.

Returns:

type 4 **UUID** (p. 2686)

6.583.3.13 virtual long long decaf::util::UUID::timestamp () throw (lang::exceptions::UnsupportedOperationException) [virtual]

The timestamp value associated with this **UUID** (p. 2686). The 60 bit timestamp value is constructed from the time_low, time_mid, and time_hi fields of this **UUID** (p. 2686). The resulting timestamp is measured in 100-nanosecond units since midnight, October 15, 1582 UTC.

The timestamp value is only meaningful in a time-based **UUID** (p. 2686), which has version type 1. If this **UUID** (p. 2686) is not a time-based **UUID** (p. 2686) then this method throws `UnsupportedOperationException`.

Returns:

the timestamp associated with a V1 **UUID** (p. 2686)

Exceptions:

UnsupportedOperationException

6.583.3.14 virtual std::string decaf::util::UUID::toString () const [virtual]

Returns a `String` object representing this **UUID** (p. 2686). **UUID**'s are formatted as: 00112233-4455-6677-8899-AABBCCDDEEFF whose length is 36.

Returns:

formatted string for this **UUID** (p. 2686)

6.583.3.15 virtual int decaf::util::UUID::variant () throw (lang::exceptions::UnsupportedOperationException) [virtual]

The variant number associated with this **UUID** (p. 2686). The variant number describes the layout of the **UUID** (p. 2686). The variant number has the following meaning:

* 0 Reserved for NCS backward compatibility * 2 The Leach-Salz variant (used by this class) * 6 Reserved, Microsoft Corporation backward compatibility * 7 Reserved for future definition

Returns:

the variant associated with a V1 **UUID** (p. 2686)

Exceptions:

UnsupportedOperationException

6.583.3.16 virtual int decaf::util::UUID::version () throw (lang::exceptions::UnsupportedOperationException) [virtual]

The version number associated with this **UUID** (p. 2686). The version number describes how this **UUID** (p. 2686) was generated. The version number has the following meaning:

* 1 Time-based **UUID** (p. 2686) * 2 DCE security (p. 107) **UUID** (p. 2686) * 3 Name-based **UUID** (p. 2686) * 4 Randomly generated **UUID** (p. 2686)

Returns:

the version associated with a V1 **UUID** (p. 2686)

Exceptions:

UnsupportedOperationException

The documentation for this class was generated from the following file:

- `src/main/decaf/util/UUID.h`

6.584 activemq::wireformat::WireFormat Class Reference

Provides a mechanism to marshal **commands** (p.59) into and out of packets or into and out of streams, Channels and Datagrams.

#include <src/main/activemq/wireformat/WireFormat.h> Inheritance diagram for activemq::wireformat::WireFormat:

Public Member Functions

- virtual **~WireFormat** ()
- virtual void **marshal** (const **Pointer**< **commands::Command** > &command, const **activemq::transport::Transport** *transport, **decaf::io::DataOutputStream** *out)=0
throw (**decaf::io::IOException**)
Stream based marshaling of a Command, this method blocks until the entire Command has been written out to the output stream.
- virtual **Pointer**< **commands::Command** > **unmarshal** (const **activemq::transport::Transport** *transport, **decaf::io::DataInputStream** *in)=0
throw (**decaf::io::IOException**)
Stream based unmarshaling, blocks on reads on the input stream until a complete command has been read and unmarshaled into the correct form.
- virtual void **setVersion** (int version)=0
Set the Version.
- virtual int **getVersion** () const =0
Get the Version.
- virtual bool **hasNegotiator** () const =0
*Returns true if this **WireFormat** (p.2693) has a Negotiator that needs to wrap the Transport that uses it.*
- virtual **Pointer**< **transport::Transport** > **createNegotiator** (const **Pointer**< **transport::Transport** > &transport)=0 throw (**decaf::lang::exceptions::UnsupportedOperationException**)
If the Transport Provides a Negotiator this method will create and return a new instance of the Negotiator.

6.584.1 Detailed Description

Provides a mechanism to marshal **commands** (p.59) into and out of packets or into and out of streams, Channels and Datagrams.

Version:

Revision 1.1

6.584.2 Constructor & Destructor Documentation

6.584.2.1 `virtual activemq::wireformat::WireFormat::~~WireFormat () [inline, virtual]`

6.584.3 Member Function Documentation

6.584.3.1 `virtual Pointer<transport::Transport> activemq::wireformat::WireFormat::createNegotiator (const Pointer< transport::Transport > & transport) throw (decaf::lang::exceptions::UnsupportedOperationException) [pure virtual]`

If the Transport Provides a Negotiator this method will create and return a new instance of the Negotiator.

Parameters:

transport (p. 67) - the Transport to Wrap the Negotiator around.

Returns:

new instance of a **WireFormatNegotiator** (p. 2721) as a **Pointer<Transport>** (p. 2011).

Exceptions:

UnsupportedOperationException if the **WireFormat** (p. 2693) doesn't have a Negotiator.

Implemented in **activemq::wireformat::openwire::OpenWireFormat** (p. 1973), and **activemq::wireformat::stomp::StompWireFormat** (p. 2467).

6.584.3.2 `virtual int activemq::wireformat::WireFormat::getVersion () const [pure virtual]`

Get the Version.

Returns:

the version of the wire format

Implemented in **activemq::wireformat::openwire::OpenWireFormat** (p. 1975), and **activemq::wireformat::stomp::StompWireFormat** (p. 2467).

6.584.3.3 `virtual bool activemq::wireformat::WireFormat::hasNegotiator () const [pure virtual]`

Returns true if this **WireFormat** (p. 2693) has a Negotiator that needs to wrap the Transport that uses it.

Returns:

true if the **WireFormat** (p. 2693) provides a Negotiator.

Implemented in **activemq::wireformat::openwire::OpenWireFormat** (p. 1975), and **activemq::wireformat::stomp::StompWireFormat** (p. 2467).

6.584.3.4 virtual void activemq::wireformat::WireFormat::marshal (const Pointer< commands::Command > & *command*, const activemq::transport::Transport * *transport*, decaf::io::DataOutputStream * *out*) throw (decaf::io::IOException) [pure virtual]

Stream based marshaling of a Command, this method blocks until the entire Command has been written out to the output stream.

Parameters:

command The Command to Marshal

transport (p. 67) The Transport that called this method.

out The output stream to write the command to.

Exceptions:

IOException

Implemented in **activemq::wireformat::openwire::OpenWireFormat** (p. 1977), and **activemq::wireformat::stomp::StompWireFormat** (p. 2468).

6.584.3.5 virtual void activemq::wireformat::WireFormat::setVersion (int *version*) [pure virtual]

Set the Version.

Parameters:

version the version of the wire format

Implemented in **activemq::wireformat::openwire::OpenWireFormat** (p. 1979), and **activemq::wireformat::stomp::StompWireFormat** (p. 2468).

6.584.3.6 virtual Pointer<commands::Command> activemq::wireformat::WireFormat::unmarshal (const activemq::transport::Transport * *transport*, decaf::io::DataInputStream * *in*) throw (decaf::io::IOException) [pure virtual]

Stream based unmarshaling, blocks on reads on the input stream until a complete command has been read and unmarshaled into the correct form. Returns a Pointer to the newly unmarshaled Command.

Parameters:

transport (p. 67) - Pointer to the **transport** (p. 67) that is making this request.

in - the input stream to read the command from.

Returns:

the newly marshaled Command, caller owns the pointer

Exceptions:

IOException

Implemented in `activemq::wireformat::openwire::OpenWireFormat` (p. 1980), and `activemq::wireformat::stomp::StompWireFormat` (p. 2468).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/WireFormat.h`

6.585 activemq::wireformat::WireFormatFactory Class Reference

The **WireFormatFactory** (p.2697) is the interface that all **WireFormatFactory** (p.2697) classes must extend.

#include <src/main/activemq/wireformat/WireFormatFactory.h> Inheritance diagram for activemq::wireformat::WireFormatFactory:

Public Member Functions

- virtual **~WireFormatFactory** ()
- virtual **Pointer< WireFormat > createWireFormat** (const **decaf::util::Properties** &properties)=0 throw (**decaf::lang::exceptions::IllegalStateException**)
*Creates a new **WireFormat** (p.2693) Object passing it a set of properties from which it can obtain any optional settings.*

6.585.1 Detailed Description

The **WireFormatFactory** (p.2697) is the interface that all **WireFormatFactory** (p.2697) classes must extend. The Factory creates a **WireFormat** (p.2693) Object based on the properties that are set in the passed **Properties** object.

6.585.2 Constructor & Destructor Documentation

6.585.2.1 virtual **activemq::wireformat::WireFormatFactory::~~WireFormatFactory** () [inline, virtual]

6.585.3 Member Function Documentation

6.585.3.1 virtual **Pointer<WireFormat> activemq::wireformat::WireFormatFactory::createWireFormat** (const **decaf::util::Properties** & *properties*) throw (**decaf::lang::exceptions::IllegalStateException**) [pure virtual]

Creates a new **WireFormat** (p.2693) Object passing it a set of properties from which it can obtain any optional settings.

Parameters:

properties - the **Properties** for this **WireFormat** (p.2693)

Returns:

Pointer to a new instance of a **WireFormat** (p.2693) object.

Implemented in **activemq::wireformat::openwire::OpenWireFormatFactory** (p.1982), and **activemq::wireformat::stomp::StompWireFormatFactory** (p.2470).

The documentation for this class was generated from the following file:

- `src/main/activemq/wireformat/WireFormatFactory.h`

6.586 activemq::commands::WireFormatInfo Class Reference

#include <src/main/activemq/commands/WireFormatInfo.h> Inheritance diagram for activemq::commands::WireFormatInfo:

Public Member Functions

- **WireFormatInfo** ()
- virtual **~WireFormatInfo** ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual **DataStructure** * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const **DataStructure** *src)
Copy the contents of the passed object into this objects members, overwriting any existing data.
- virtual std::string **toString** () const
*Returns a string containing the information for this **DataStructure** (p. 1174) such as its type and value of its elements.*
- virtual bool **equals** (const **DataStructure** *value) const
*Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent.*
- virtual bool **isMarshalAware** () const
Indicates that this command is aware of Marshaling, and needs to have its Marshaling methods invoked.
- virtual **decaf::lang::Pointer**< **commands::Command** > **visit** (**activemq::state::CommandVisitor** *visitor) throw (**exceptions::ActiveMQException**)
Allows a Visitor to visit this command and return a response to the command based on the command type being visited.
- int **getVersion** () const
Get the current Wireformat Version.
- void **setVersion** (int version)
Set the current Wireformat Version.
- long long **getMaxInactivityDuration** () const
Returns the currently configured Max Inactivity duration.
- void **setMaxInactivityDuration** (long long maxInactivityDuration)
Sets the Max inactivity duration value.

- long long **getMaxInactivityDurationInitialDelay** () const
Returns the currently configured Max Inactivity Initial Delay duration.
- void **setMaxInactivityDurationInitialDelay** (long long maxInactivityDurationInitialDelay)
Sets the Max inactivity initial delay duration value.
- bool **isStackTraceEnabled** () const
Checks if the stackTraceEnabled flag is on.
- void **setStackTraceEnabled** (bool stackTraceEnabled)
Sets if the stackTraceEnabled flag is on.
- bool **isTcpNoDelayEnabled** () const
Checks if the tcpNoDelayEnabled flag is on.
- void **setTcpNoDelayEnabled** (bool tcpNoDelayEnabled)
Sets if the tcpNoDelayEnabled flag is on.
- bool **isCacheEnabled** () const
Checks if the cacheEnabled flag is on.
- void **setCacheEnabled** (bool cacheEnabled)
Sets if the cacheEnabled flag is on.
- int **getCacheSize** () const
Gets the Cache Size setting.
- void **setCacheSize** (int value)
Sets the Cache Size setting.
- bool **isTightEncodingEnabled** () const
Checks if the tightEncodingEnabled flag is on.
- void **setTightEncodingEnabled** (bool tightEncodingEnabled)
Sets if the tightEncodingEnabled flag is on.
- bool **isSizePrefixDisabled** () const
Checks if the sizePrefixDisabled flag is on.
- void **setSizePrefixDisabled** (bool sizePrefixDisabled)
Sets if the sizePrefixDisabled flag is on.
- const std::vector< unsigned char > &**getMagic** () const
Get the Magic field.
- void **setMagic** (const std::vector< unsigned char > &magic)
Sets the value of the magic field.

- `const std::vector< unsigned char > & getMarshaledProperties () const`
Get the marshalledProperties field.
- `void setMarshaledProperties (const std::vector< unsigned char > &marshalledProperties)`
Sets the value of the marshalledProperties field.
- `virtual const util::PrimitiveMap & getProperties () const`
*Gets the Properties for this **Command** (p. 879).*
- `virtual util::PrimitiveMap & getProperties ()`
*Gets the Properties for this **Command** (p. 879).*
- `virtual void setProperties (const util::PrimitiveMap &map)`
*Sets the Properties for this **Command** (p. 879).*
- `bool isValid () const`
*Determines if we think this is a Valid **WireFormatInfo** (p. 2699) command.*
- `virtual bool isWireFormatInfo () const`
- `virtual void beforeMarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)`
Handles the marshaling of the objects properties into the internal byte array before the object is marshalled to the wire.
- `virtual void afterUnmarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)`
Called after unmarshaling is started to cleanup the object being unmarshaled.

Static Public Attributes

- `static const unsigned char ID_WIREFORMATINFO = 1`

6.586.1 Constructor & Destructor Documentation

6.586.1.1 `activemq::commands::WireFormatInfo::WireFormatInfo ()`

6.586.1.2 `virtual activemq::commands::WireFormatInfo::~~WireFormatInfo ()`
[virtual]

6.586.2 Member Function Documentation

6.586.2.1 `virtual void activemq::commands::WireFormatInfo::afterUnmarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)` [virtual]

Called after unmarshaling is started to cleanup the object being unmarshaled.

Parameters:

wireFormat - the **wireformat** (p. 74) object to control unmarshaling

Reimplemented from `activemq::commands::BaseDataStructure` (p. 558).

6.586.2.2 `virtual void activemq::commands::WireFormatInfo::beforeMarshal (wireformat::WireFormat *wireFormat AMQCPP_UNUSED) throw (decaf::io::IOException)` [virtual]

Handles the marshaling of the objects properties into the internal byte array before the object is marshalled to the wire.

Parameters:

wireFormat - the wire formatting controller

Reimplemented from `activemq::commands::BaseDataStructure` (p. 558).

6.586.2.3 `virtual DataStructure* activemq::commands::WireFormatInfo::cloneDataStructure () const` [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Implements `activemq::commands::DataStructure` (p. 1174).

6.586.2.4 `virtual void activemq::commands::WireFormatInfo::copyDataStructure (const DataStructure *src)` [virtual]

Copy the contents of the passed object into this objects members, overwriting any existing data.

Returns:

src - Source Object

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.586.2.5 `virtual bool activemq::commands::WireFormatInfo::equals (const DataStructure *value) const` [virtual]

Compares the `DataStructure` (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::BaseCommand` (p. 508).

6.586.2.6 int activemq::commands::WireFormatInfo::getCacheSize () const

Gets the Cache Size setting.

Returns:

currently set cache size.

6.586.2.7 virtual unsigned char activemq::commands::WireFormatInfo::getDataStructureType () const [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataSet** (p. 1174) type copy.

Implements **activemq::commands::DataSet** (p. 1176).

6.586.2.8 const std::vector<unsigned char>& activemq::commands::WireFormatInfo::getMagic () const [inline]

Get the Magic field.

Returns:

const reference to a std::vector<char>

6.586.2.9 const std::vector<unsigned char>& activemq::commands::WireFormatInfo::getMarshaledProperties () const [inline]

Get the marshalledProperties field.

Returns:

const reference to a std::vector<char>

6.586.2.10 long long activemq::commands::WireFormatInfo::getMaxInactivityDuration () const

Returns the currently configured Max Inactivity duration.

Returns:

the set inactivity duration value.

6.586.2.11 `long long activemq::commands::WireFormatInfo::getMaxInactivityDurationInitialDelay () const`

Returns the currently configured Max Inactivity Initial Delay duration.

Returns:

the set inactivity duration initial delay value.

6.586.2.12 `virtual util::PrimitiveMap& activemq::commands::WireFormatInfo::getProperties () [inline, virtual]`

Gets the Properties for this **Command** (p. 879).

Returns:

the Properties object for this **Command** (p. 879).

6.586.2.13 `virtual const util::PrimitiveMap& activemq::commands::WireFormatInfo::getProperties () const [inline, virtual]`

Gets the Properties for this **Command** (p. 879).

Returns:

the Properties object for this **Command** (p. 879).

6.586.2.14 `int activemq::commands::WireFormatInfo::getVersion () const [inline]`

Get the current Wireformat Version.

Returns:

int that identifies the version

6.586.2.15 `bool activemq::commands::WireFormatInfo::isCacheEnabled () const`

Checks if the cacheEnabled flag is on.

Returns:

true if the flag is on.

6.586.2.16 `virtual bool activemq::commands::WireFormatInfo::isMarshalAware () const [inline, virtual]`

Indicates that this command is aware of Marshaling, and needs to have its Marshaling methods invoked.

Returns:

boolean indicating desire to be in marshaling stages

Reimplemented from **activemq::commands::BaseDataStructure** (p. 559).

6.586.2.17 bool activemq::commands::WireFormatInfo::isSizePrefixDisabled () const

Checks if the sizePrefixDisabled flag is on.

Returns:

true if the flag is on.

6.586.2.18 bool activemq::commands::WireFormatInfo::isStackTraceEnabled () const

Checks if the stackTraceEnabled flag is on.

Returns:

true if the flag is on.

6.586.2.19 bool activemq::commands::WireFormatInfo::isTcpNoDelayEnabled () const

Checks if the tcpNoDelayEnabled flag is on.

Returns:

true if the flag is on.

6.586.2.20 bool activemq::commands::WireFormatInfo::isTightEncodingEnabled () const

Checks if the tightEncodingEnabled flag is on.

Returns:

true if the flag is on.

6.586.2.21 bool activemq::commands::WireFormatInfo::isValid () const

Determines if we think this is a Valid **WireFormatInfo** (p. 2699) command.

Returns:

true if its valid.

6.586.2.22 `virtual bool activemq::commands::WireFormatInfo::isWireFormatInfo ()`
`const [inline, virtual]`

Returns:

answers true to the isWireFormatInfo query

Reimplemented from `activemq::commands::BaseCommand` (p. 512).

6.586.2.23 `void activemq::commands::WireFormatInfo::setCacheEnabled (bool`
`cacheEnabled)`

Sets if the cacheEnabled flag is on.

Parameters:

cacheEnabled - true to turn flag is on

6.586.2.24 `void activemq::commands::WireFormatInfo::setCacheSize (int value)`

Sets the Cache Size setting.

Parameters:

value - value to set to the cache size.

6.586.2.25 `void activemq::commands::WireFormatInfo::setMagic (const`
`std::vector< unsigned char > & magic) [inline]`

Sets the value of the magic field.

Parameters:

magic - const std::vector<char>

6.586.2.26 `void activemq::commands::WireFormatInfo::setMarshaledProperties`
`(const std::vector< unsigned char > & marshalledProperties) [inline]`

Sets the value of the marshalledProperties field.

Parameters:

marshalledProperties The Byte Array vector that contains the marshaled form of the Message (p. 1737) properties, this is the data sent over the wire.

6.586.2.27 `void activemq::commands::WireFormatInfo::setMaxInactivityDuration`
`(long long maxInactivityDuration)`

Sets the Max inactivity duration value.

Parameters:

maxInactivityDuration - max time a client can be inactive.

6.586.2.28 void activemq::commands::WireFormatInfo::setMaxInactivityDurationInitialDelay (long long *maxInactivityDurationInitialDelay*)

Sets the Max inactivity initial delay duration value.

Parameters:

maxInactivityDurationInitialDelay - time before the inactivity delay is checked.

6.586.2.29 virtual void activemq::commands::WireFormatInfo::setProperties (const util::PrimitiveMap & *map*) [inline, virtual]

Sets the Properties for this **Command** (p. 879).

Parameters:

map - PrimitiveMap to copy

6.586.2.30 void activemq::commands::WireFormatInfo::setSizePrefixDisabled (bool *sizePrefixDisabled*)

Sets if the sizePrefixDisabled flag is on.

Parameters:

sizePrefixDisabled - true to turn flag is on

6.586.2.31 void activemq::commands::WireFormatInfo::setStackTraceEnabled (bool *stackTraceEnabled*)

Sets if the stackTraceEnabled flag is on.

Parameters:

stackTraceEnabled - ture to turn flag is on

6.586.2.32 void activemq::commands::WireFormatInfo::setTcpNoDelayEnabled (bool *tcpNoDelayEnabled*)

Sets if the tcpNoDelayEnabled flag is on.

Parameters:

tcpNoDelayEnabled - ture to turn flag is on

6.586.2.33 void activemq::commands::WireFormatInfo::setTightEncodingEnabled (bool *tightEncodingEnabled*)

Sets if the tightEncodingEnabled flag is on.

Parameters:

tightEncodingEnabled - true to turn flag is on

6.586.2.34 `void activemq::commands::WireFormatInfo::setVersion (int version)`
[inline]

Set the current Wireformat Version.

Parameters:

version - int that identifies the version

6.586.2.35 `virtual std::string activemq::commands::WireFormatInfo::toString ()`
`const` [virtual]

Returns a string containing the information for this **DataSet** (p.1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::BaseCommand` (p. 512).

6.586.2.36 `virtual decaf::lang::Pointer<commands::Command>`
`activemq::commands::WireFormatInfo::visit (ac-`
`tivemq::state::CommandVisitor * visitor) throw (`
`exceptions::ActiveMQException)` [virtual]

Allows a Visitor to visit this command and return a response to the command based on the command type being visited. The command will call the proper processXXX method in the visitor.

Returns:

a **Response** (p. 2231) to the visitor being called or NULL if no response.

Implements `activemq::commands::Command` (p.883).

6.586.3 Field Documentation

6.586.3.1 `const unsigned char activemq::commands::WireFormatInfo::ID _-`
`WIREFORMATINFO = 1` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/WireFormatInfo.h`

6.587 activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2709).

#include <src/main/activemq/wireformat/openwire/marshal/v3/WireFormatInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller:

Public Member Functions

- **WireFormatInfoMarshaller** ()
- virtual **~WireFormatInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**, **utils::BooleanStream *bs**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataInputStream *dataIn**) throw (**decaf::io::IOException**)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (**OpenWireFormat *wireFormat**, **commands::DataStructure *dataStructure**, **decaf::io::DataOutputStream *dataOut**) throw (**decaf::io::IOException**)
Write a object instance to data output stream.

6.587.1 Detailed Description

Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2709). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.587.2 Constructor & Destructor Documentation

6.587.2.1 `activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::WireFormatInfoMarshaller()` [inline]

6.587.2.2 `virtual activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::~~WireFormatInfoMarshaller()` [inline, virtual]

6.587.3 Member Function Documentation

6.587.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.587.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.587.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1154).

6.587.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1158).

6.587.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1162).

6.587.3.6 virtual void activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.587.3.7 virtual void activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/**WireFormatInfoMarshaller.h**

6.588 activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2713).

#include <src/main/activemq/wireformat/openwire/marshal/v2/WireFormatInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller:

Public Member Functions

- **WireFormatInfoMarshaller** ()
- virtual **~WireFormatInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.588.1 Detailed Description

Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2713). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.588.2 Constructor & Destructor Documentation

6.588.2.1 `activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::WireFormatInfoMarshaller()` [inline]

6.588.2.2 `virtual activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::~~WireFormatInfoMarshaller()` [inline, virtual]

6.588.3 Member Function Documentation

6.588.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.588.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.588.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.588.3.4 virtual void **activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.588.3.5 virtual int **activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.588.3.6 virtual void activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.588.3.7 virtual void activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/**WireFormatInfoMarshaller.h**

6.589 activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller Class Reference

Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2717).

#include <src/main/activemq/wireformat/openwire/marshal/v1/WireFormatInfoMarshaller.h>Inheritance diagram for activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller:

Public Member Functions

- **WireFormatInfoMarshaller** ()
- virtual **~WireFormatInfoMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.589.1 Detailed Description

Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2717). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.589.2 Constructor & Destructor Documentation

6.589.2.1 `activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::WireFormatInfoMarshaller()` [inline]

6.589.2.2 `virtual activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::~~WireFormatInfoMarshaller()` [inline, virtual]

6.589.3 Member Function Documentation

6.589.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.589.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.589.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1154).

6.589.3.4 virtual void **activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::looseUnmarshal** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **decaf::io::DataInputStream** * *dataIn*) throw (**decaf::io::IOException**) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1158).

6.589.3.5 virtual int **activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::tightMarshal1** (**OpenWireFormat** * *wireFormat*, **commands::DataStructure** * *dataStructure*, **utils::BooleanStream** * *bs*) throw (**decaf::io::IOException**) [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1162).

6.589.3.6 virtual void activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1166).

6.589.3.7 virtual void activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Implements **activemq::wireformat::openwire::marshal::DataStreamMarshaller** (p. 1169).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/**WireFormatInfoMarshaller.h**

6.590 activemq::wireformat::WireFormatNegotiator Class Reference

Defines a **WireFormatNegotiator** (p. 2721) which allows a **WireFormat** (p. 2693) to.

#include <src/main/activemq/wireformat/WireFormatNegotiator.h>Inheritance diagram for activemq::wireformat::WireFormatNegotiator:

Public Member Functions

- **WireFormatNegotiator** (const **Pointer**< **transport::Transport** > &next)
Constructor.
- virtual ~**WireFormatNegotiator** ()

6.590.1 Detailed Description

Defines a **WireFormatNegotiator** (p. 2721) which allows a **WireFormat** (p. 2693) to.

6.590.2 Constructor & Destructor Documentation

- 6.590.2.1 **activemq::wireformat::WireFormatNegotiator::WireFormatNegotiator**
(const **Pointer**< **transport::Transport** > & *next*) [inline]

Constructor.

Parameters:

- next* - the next Transport in the chain

- 6.590.2.2 **virtual**
activemq::wireformat::WireFormatNegotiator::~~WireFormatNegotiator
() [inline, virtual]

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/**WireFormatNegotiator.h**

6.591 activemq::wireformat::WireFormatRegistry Class Reference

Registry of all **WireFormat** (p. 2693) Factories that are available to the client at runtime.

```
#include <src/main/activemq/wireformat/WireFormatRegistry.h>
```

Public Member Functions

- virtual **~WireFormatRegistry** ()
- **WireFormatFactory** * **findFactory** (const std::string &name) const throw (decaf::lang::exceptions::NoSuchElementException)

*Gets a Registered **WireFormatFactory** (p. 2697) from the Registry and returns it if there is not a registered format factory with the given name an exception is thrown.*

- void **registerFactory** (const std::string &name, **WireFormatFactory** *factory) throw (decaf::lang::exceptions::IllegalArgumentException, decaf::lang::exceptions::NullPointerException)

*Registers a new **WireFormatFactory** (p. 2697) with this Registry.*

- void **unregisterFactory** (const std::string &name)

Unregisters the Factory with the given name and deletes that instance of the Factory.

- std::vector< std::string > **getWireFormatNames** () const

Retrieves a list of the names of all the Registered WireFormat's in this Registry.

Static Public Member Functions

- static **WireFormatRegistry** & **getInstance** ()

*Gets the single instance of the **WireFormatRegistry** (p. 2722).*

6.591.1 Detailed Description

Registry of all **WireFormat** (p. 2693) Factories that are available to the client at runtime. New WireFormat's must have a factory registered here before a connection attempt is made.

Since:

3.0

6.591.2 Constructor & Destructor Documentation

6.591.2.1 virtual
activemq::wireformat::WireFormatRegistry::~~WireFormatRegistry ()
[virtual]

6.591.3 Member Function Documentation

6.591.3.1 WireFormatFactory* ac-
tivemq::wireformat::WireFormatRegistry::findFactory (const std::string
& *name*) const throw (decaf::lang::exceptions::NoSuchElementException
)

Gets a Registered **WireFormatFactory** (p. 2697) from the Registry and returns it if there is not a registered format factory with the given name an exception is thrown.

Parameters:

name The name of the Factory to find in the Registry.

Returns:

the Factory registered under the given name.

Exceptions:

NoSuchElementException if no factory is registered with that name.

6.591.3.2 static WireFormatRegistry& ac-
tivemq::wireformat::WireFormatRegistry::getInstance ()
[static]

Gets the single instance of the **WireFormatRegistry** (p. 2722).

Returns:

reference to the single instance of this Registry

6.591.3.3 std::vector<std::string> ac-
tivemq::wireformat::WireFormatRegistry::getWireFormatNames ()
const

Retrieves a list of the names of all the Registered WireFormat's in this Registry.

Returns:

stl vector of strings with all the **WireFormat** (p. 2693) names registered.

6.591.3.4 void activemq::wireformat::WireFormatRegistry::registerFactory
(const std::string & *name*, WireFormatFactory * *factory*)
throw (decaf::lang::exceptions::IllegalArgumentException,
decaf::lang::exceptions::NullPointerException)

Registers a new **WireFormatFactory** (p. 2697) with this Registry. If a Factory with the given name is already registered it is overwritten with the new one. Once a factory is added to the Registry its lifetime is controlled by the Registry, it will be deleted once the Registry has been deleted.

Parameters:

name The name of the new Factory to register.
factory The new Factory to add to the Registry.

Exceptions:

IllegalArgumentException is name is the empty string.
NullPointerException if the Factory is Null.

6.591.3.5 void activemq::wireformat::WireFormatRegistry::unregisterFactory
(const std::string & *name*)

Unregisters the Factory with the given name and deletes that instance of the Factory.

Parameters:

name Name of the Factory to unregister and destroy

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/**WireFormatRegistry.h**

6.592 decaf::io::Writer Class Reference

```
#include <src/main/decaf/io/Writer.h>
```

Public Member Functions

- virtual `~Writer ()`
- virtual void `setOutputStream (OutputStream *os)=0`
Sets the target output stream.
- virtual `OutputStream * getOutputStream ()=0`
Gets the target output stream.
- virtual void `write (const unsigned char *buffer, std::size_t count)=0` throw (`IOException`, `lang::exceptions::NullPointerException`)
Writes a byte array to the output stream.
- virtual void `writeByte (unsigned char v)=0` throw (`IOException`)
Writes a byte to the output stream.

6.592.1 Constructor & Destructor Documentation

6.592.1.1 virtual `decaf::io::Writer::~~Writer ()` [inline, virtual]

6.592.2 Member Function Documentation

6.592.2.1 virtual `OutputStream* decaf::io::Writer::getOutputStream ()` [pure virtual]

Gets the target output stream.

Returns:

the output stream currently being used

6.592.2.2 virtual void `decaf::io::Writer::setOutputStream (OutputStream * os)` [pure virtual]

Sets the target output stream.

Parameters:

os The provided Outputstream to use to write to.

6.592.2.3 virtual void `decaf::io::Writer::write (const unsigned char * buffer, std::size_t count)` throw (`IOException`, `lang::exceptions::NullPointerException`) [pure virtual]

Writes a byte array to the output stream.

Parameters:

buffer a byte array

count the number of bytes in the array to write.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

6.592.2.4 `virtual void decaf::io::Writer::writeByte (unsigned char v) throw (IOException)` [pure virtual]

Writes a byte to the output stream.

Parameters:

v The value to be written.

Exceptions:

IOException (p. 1477) thrown if an error occurs.

The documentation for this class was generated from the following file:

- `src/main/decaf/io/Writer.h`

6.593 decaf::security::auth::x500::X500Principal Class Reference

#include <src/main/decaf/security/auth/x500/X500Principal.h> Inheritance diagram for decaf::security::auth::x500::X500Principal:

Public Member Functions

- virtual `~X500Principal ()`
- virtual `std::string getName () const =0`
Provides the name of this principal.
- virtual `void getEncoded (std::vector< unsigned char > &output) const =0`
- virtual `int hashCode () const =0`

6.593.1 Constructor & Destructor Documentation

6.593.1.1 virtual `decaf::security::auth::x500::X500Principal::~X500Principal ()`
[inline, virtual]

6.593.2 Member Function Documentation

6.593.2.1 virtual `void decaf::security::auth::x500::X500Principal::getEncoded (std::vector< unsigned char > & output) const` [pure virtual]

6.593.2.2 virtual `std::string decaf::security::auth::x500::X500Principal::getName () const` [pure virtual]

Provides the name of this principal.

Returns:

the name of this principal.

Implements `decaf::security::Principal` (p. 2084).

6.593.2.3 virtual `int decaf::security::auth::x500::X500Principal::hashCode () const`
[pure virtual]

The documentation for this class was generated from the following file:

- `src/main/decaf/security/auth/x500/X500Principal.h`

6.594 decaf::security::cert::X509Certificate Class Reference

Base interface for all identity certificates.

#include <src/main/decaf/security/cert/X509Certificate.h> Inheritance diagram for decaf::security::cert::X509Certificate:

Public Member Functions

- virtual **~X509Certificate** ()
- virtual void **checkValidity** () const =0 throw (CertificateExpiredException, CertificateNotYetValidException)
- virtual void **checkValidity** (const **decaf::util::Date** &date) const =0 throw (CertificateExpiredException, CertificateNotYetValidException)
- virtual int **getBasicConstraints** () const =0
- virtual void **getIssuerUniqueID** (std::vector< bool > &output) const =0
- virtual const X500Principal * **getIssuerX500Principal** () const =0
- virtual void **getKeyUsage** (std::vector< unsigned char > &output) const =0
- virtual **Date** **getNotAfter** () const =0
- virtual **Date** **getNotBefore** () const =0
- virtual std::string **getSigAlgName** () const =0
- virtual std::string **getSigAlgOID** () const =0
- virtual void **getSigAlgParams** (std::vector< unsigned char > &output) const =0
- virtual void **getSignature** (std::vector< unsigned char > &output) const =0
- virtual void **getSubjectUniqueID** (std::vector< bool > &output) const =0
- virtual const X500Principal * **getSubjectX500Principal** () const =0
- virtual void **getTBSCertificate** (std::vector< unsigned char > &output) const =0 throw (CertificateEncodingException)
- virtual int **getVersion** () const =0

6.594.1 Detailed Description

Base interface for all identity certificates.

6.594.2 Constructor & Destructor Documentation

- 6.594.2.1** virtual **decaf::security::cert::X509Certificate::~X509Certificate** ()
[inline, virtual]

6.594.3 Member Function Documentation

- 6.594.3.1** virtual void **decaf::security::cert::X509Certificate::checkValidity** (const **decaf::util::Date** & *date*) const throw (CertificateExpiredException, CertificateNotYetValidException) [pure virtual]

Implemented in **decaf::security_provider::unix::openssl::OpenSSLX509Certificate** (p. 1965).

6.594.3.2 `virtual void decaf::security::cert::X509Certificate::checkValidity () const
throw (CertificateExpiredException, CertificateNotYetValidException)
[pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1965).

6.594.3.3 `virtual int decaf::security::cert::X509Certificate::getBasicConstraints ()
const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1966).

6.594.3.4 `virtual void decaf::security::cert::X509Certificate::getIssuerUniqueID
(std::vector< bool > & output) const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1966).

6.594.3.5 `virtual const X500Principal* de-
caf::security::cert::X509Certificate::getIssuerX500Principal
() const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1966).

6.594.3.6 `virtual void decaf::security::cert::X509Certificate::getKeyUsage
(std::vector< unsigned char > & output) const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1966).

6.594.3.7 `virtual Date decaf::security::cert::X509Certificate::getNotAfter () const
[pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1966).

6.594.3.8 `virtual Date decaf::security::cert::X509Certificate::getNotBefore () const
[pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1966).

6.594.3.9 `virtual std::string decaf::security::cert::X509Certificate::getSigAlgName
() const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1967).

6.594.3.10 `virtual std::string decaf::security::cert::X509Certificate::getSigAlgOID
() const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1967).

6.594.3.11 `virtual void decaf::security::cert::X509Certificate::getSigAlgParams
(std::vector< unsigned char > & output) const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1967).

6.594.3.12 `virtual void decaf::security::cert::X509Certificate::getSignature
(std::vector< unsigned char > & output) const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1967).

6.594.3.13 `virtual void decaf::security::cert::X509Certificate::getSubjectUniqueID
(std::vector< bool > & output) const [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1968).

6.594.3.14 `virtual const X500Principal* de-
caf::security::cert::X509Certificate::getSubjectX500Principal () const
[pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1968).

6.594.3.15 `virtual void decaf::security::cert::X509Certificate::getTBSCertificate
(std::vector< unsigned char > & output) const throw (
CertificateEncodingException) [pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1968).

6.594.3.16 `virtual int decaf::security::cert::X509Certificate::getVersion () const
[pure virtual]`

Implemented in `decaf::security_provider::unix::openssl::OpenSSLX509Certificate`
(p. 1968).

The documentation for this class was generated from the following file:

- `src/main/decaf/security/cert/X509Certificate.h`

6.595 activemq::commands::XATransactionId Class Reference

#include <src/main/activemq/commands/XATransactionId.h> Inheritance diagram for activemq::commands::XATransactionId:

Public Types

- typedef decaf::lang::PointerComparator< XATransactionId > COMPARATOR

Public Member Functions

- XATransactionId ()
- XATransactionId (const XATransactionId &other)
- virtual ~XATransactionId ()
- virtual unsigned char **getDataStructureType** () const
Get the unique identifier that this object and its own Marshaler share.
- virtual XATransactionId * **cloneDataStructure** () const
Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.
- virtual void **copyDataStructure** (const DataStructure *src)
Copy the contents of the passed object into this object's members, overwriting any existing data.
- virtual std::string **toString** () const
Returns a string containing the information for this DataStructure (p. 1174) such as its type and value of its elements.
- virtual bool **equals** (const DataStructure *value) const
Compares the DataStructure (p. 1174) passed in to this one, and returns if they are equivalent.
- virtual int **getFormatId** () const
- virtual void **setFormatId** (int formatId)
- virtual const std::vector< unsigned char > & **getGlobalTransactionId** () const
- virtual std::vector< unsigned char > & **getGlobalTransactionId** ()
- virtual void **setGlobalTransactionId** (const std::vector< unsigned char > &globalTransactionId)
- virtual const std::vector< unsigned char > & **getBranchQualifier** () const
- virtual std::vector< unsigned char > & **getBranchQualifier** ()
- virtual void **setBranchQualifier** (const std::vector< unsigned char > &branchQualifier)
- virtual int **compareTo** (const XATransactionId &value) const
- virtual bool **equals** (const XATransactionId &value) const
- virtual bool **operator==** (const XATransactionId &value) const
- virtual bool **operator<** (const XATransactionId &value) const
- XATransactionId & **operator=** (const XATransactionId &other)

Static Public Attributes

- static const unsigned char **ID_XATRANSACTIONID** = 112

Protected Attributes

- int **formatId**
- std::vector< unsigned char > **globalTransactionId**
- std::vector< unsigned char > **branchQualifier**

6.595.1 Member Typedef Documentation

- 6.595.1.1** typedef decaf::lang::PointerComparator<XATransactionId>
activemq::commands::XATransactionId::COMPARATOR

Reimplemented from **activemq::commands::TransactionId** (p. 2573).

6.595.2 Constructor & Destructor Documentation

- 6.595.2.1** activemq::commands::XATransactionId::XATransactionId ()
- 6.595.2.2** activemq::commands::XATransactionId::XATransactionId (const
XATransactionId & *other*)
- 6.595.2.3** virtual activemq::commands::XATransactionId::~~XATransactionId ()
[virtual]

6.595.3 Member Function Documentation

- 6.595.3.1** virtual XATransactionId* ac-
tivemq::commands::XATransactionId::cloneDataStructure
(*const*) [virtual]

Clone this object and return a new instance that the caller now owns, this will be an exact copy of this one.

Returns:

new copy of this object.

Reimplemented from **activemq::commands::TransactionId** (p. 2574).

- 6.595.3.2** virtual int activemq::commands::XATransactionId::compareTo (const
XATransactionId & *value*) const [virtual]

Reimplemented from **activemq::commands::TransactionId** (p. 2574).

- 6.595.3.3** virtual void activemq::commands::XATransactionId::copyDataStructure
(const DataStructure * *src*) [virtual]

Copy the contents of the passed object into this object's members, overwriting any existing data.

Parameters:

src - Source Object

Reimplemented from `activemq::commands::TransactionId` (p. 2574).

6.595.3.4 `virtual bool activemq::commands::XATransactionId::equals (const XATransactionId & value) const` [virtual]

Reimplemented from `activemq::commands::TransactionId` (p. 2574).

6.595.3.5 `virtual bool activemq::commands::XATransactionId::equals (const DataStructure * value) const` [virtual]

Compares the **DataStructure** (p. 1174) passed in to this one, and returns if they are equivalent. Equivalent here means that they are of the same type, and that each element of the objects are the same.

Returns:

true if DataStructure's are Equal.

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.595.3.6 `virtual std::vector<unsigned char>& activemq::commands::XATransactionId::getBranchQualifier ()` [virtual]

6.595.3.7 `virtual const std::vector<unsigned char>& activemq::commands::XATransactionId::getBranchQualifier () const` [virtual]

6.595.3.8 `virtual unsigned char activemq::commands::XATransactionId::getDataStructureType () const` [virtual]

Get the unique identifier that this object and its own Marshaler share.

Returns:

new **DataStructure** (p. 1174) type copy.

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.595.3.9 `virtual int activemq::commands::XATransactionId::getFormatId () const` [virtual]

6.595.3.10 `virtual std::vector<unsigned char>& activemq::commands::XATransactionId::getGlobalTransactionId ()` [virtual]

6.595.3.11 `virtual const std::vector<unsigned char>& activemq::commands::XATransactionId::getGlobalTransactionId () const` [virtual]

6.595.3.12 `virtual bool activemq::commands::XATransactionId::operator< (const XATransactionId & value) const` [virtual]

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.595.3.13 `XATransactionId& activemq::commands::XATransactionId::operator= (const XATransactionId & other)`

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.595.3.14 `virtual bool activemq::commands::XATransactionId::operator== (const XATransactionId & value) const` [virtual]

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.595.3.15 `virtual void activemq::commands::XATransactionId::setBranchQualifier (const std::vector< unsigned char > & branchQualifier)` [virtual]

6.595.3.16 `virtual void activemq::commands::XATransactionId::setFormatId (int formatId)` [virtual]

6.595.3.17 `virtual void activemq::commands::XATransactionId::setGlobalTransactionId (const std::vector< unsigned char > & globalTransactionId)` [virtual]

6.595.3.18 `virtual std::string activemq::commands::XATransactionId::toString () const` [virtual]

Returns a string containing the information for this **DataSet** (p. 1174) such as its type and value of its elements.

Returns:

formatted string useful for debugging.

Reimplemented from `activemq::commands::TransactionId` (p. 2575).

6.595.4 Field Documentation

- 6.595.4.1 `std::vector<unsigned char> activemq::commands::XATransactionId::branchQualifier` [protected]
- 6.595.4.2 `int activemq::commands::XATransactionId::formatId` [protected]
- 6.595.4.3 `std::vector<unsigned char> activemq::commands::XATransactionId::globalTransactionId` [protected]
- 6.595.4.4 `const unsigned char activemq::commands::XATransactionId::ID_XATRANSACTIONID = 112` [static]

The documentation for this class was generated from the following file:

- `src/main/activemq/commands/XATransactionId.h`

6.596 activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2736).

#include <src/main/activemq/wireformat/openwire/marshal/v1/XATransactionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller:

Public Member Functions

- **XATransactionIdMarshaller** ()
- virtual **~XATransactionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.596.1 Detailed Description

Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2736). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.596.2 Constructor & Destructor Documentation

6.596.2.1 `activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::XATransactionIdMarshaller()` [inline]

6.596.2.2 `virtual activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::~~XATransactionIdMarshaller()` [inline, virtual]

6.596.3 Member Function Documentation

6.596.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.596.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.596.3.3 `virtual void activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller` (p. 2578).

6.596.3.4 `virtual void activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller` (p. 2578).

6.596.3.5 `virtual int activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller` (p. 2579).

6.596.3.6 virtual void activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller** (p. 2579).

6.596.3.7 virtual void activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller** (p. 2580).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v1/XATransactionIdMarshaller.h

6.597 activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2740).

#include <src/main/activemq/wireformat/openwire/marshal/v3/XATransactionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller:

Public Member Functions

- **XATransactionIdMarshaller** ()
- virtual **~XATransactionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.597.1 Detailed Description

Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2740). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.597.2 Constructor & Destructor Documentation

6.597.2.1 `activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::XATransactionIdMarshaller()` [inline]

6.597.2.2 `virtual activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::~~XATransactionIdMarshaller()` [inline, virtual]

6.597.3 Member Function Documentation

6.597.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.597.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.597.3.3 `virtual void activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2582).

6.597.3.4 `virtual void activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2582).

6.597.3.5 `virtual int activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller` (p. 2583).

6.597.3.6 virtual void activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker
dataStructure - Object to be marshaled
dataOut - BinaryReader that provides that data sink
bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller** (p. 2583).

6.597.3.7 virtual void activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.
dataStructure - Object to be un-marshaled.
dataIn - BinaryReader that provides that data.
bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller** (p. 2584).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v3/XATransactionIdMarshaller.h

6.598 activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller Class Reference

Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2744).

#include <src/main/activemq/wireformat/openwire/marshal/v2/XATransactionIdMarshaller.h> Inheritance diagram for activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller:

Public Member Functions

- **XATransactionIdMarshaller** ()
- virtual **~XATransactionIdMarshaller** ()
- virtual **commands::DataStructure * createObject** () const
Creates a new instance of this marshalable type.
- virtual unsigned char **getDataStructureType** () const
Get the Data Structure Type that identifies this Marshaler.
- virtual void **tightUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual int **tightMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write the booleans that this object uses to a BooleanStream.
- virtual void **tightMarshal2** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut, **utils::BooleanStream** *bs) throw (decaf::io::IOException)
Write a object instance to data output stream.
- virtual void **looseUnmarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataInputStream** *dataIn) throw (decaf::io::IOException)
Un-marshal an object instance from the data input stream.
- virtual void **looseMarshal** (OpenWireFormat *wireFormat, **commands::DataStructure** *dataStructure, **decaf::io::DataOutputStream** *dataOut) throw (decaf::io::IOException)
Write a object instance to data output stream.

6.598.1 Detailed Description

Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2744). NOTE!: This file is auto generated - do not modify! if you need to make a change, please see the Java Classes in the activemq-openwire-generator module

6.598.2 Constructor & Destructor Documentation

6.598.2.1 `activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::XATransactionIdMarshaller()` [inline]

6.598.2.2 `virtual activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::~~XATransactionIdMarshaller()` [inline, virtual]

6.598.3 Member Function Documentation

6.598.3.1 `virtual commands::DataStructure* activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::createObject()` const [virtual]

Creates a new instance of this marshalable type.

Returns:

new DataStructure object pointer caller owns it.

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1148).

6.598.3.2 `virtual unsigned char activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::getDataStructureType()` const [virtual]

Get the Data Structure Type that identifies this Marshaler.

Returns:

byte holding the data structure type value

Implements `activemq::wireformat::openwire::marshal::DataStreamMarshaller` (p. 1151).

6.598.3.3 `virtual void activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::looseMarshal(OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataOutputStream * dataOut) throw (decaf::io::IOException)` [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryWriter that provides that data sink

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller` (p. 2586).

6.598.3.4 `virtual void activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::looseUnmarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, decaf::io::DataInputStream * dataIn) throw (decaf::io::IOException)` [virtual]

Un-marshal an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataIn - BinaryReader that provides that data source

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller` (p. 2586).

6.598.3.5 `virtual int activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::tightMarshal (OpenWireFormat * wireFormat, commands::DataStructure * dataStructure, utils::BooleanStream * bs) throw (decaf::io::IOException)` [virtual]

Write the booleans that this object uses to a BooleanStream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

bs - BooleanStream stream used to pack bits from the wire.

Returns:

int value indicating the size of the marshaled object.

Exceptions:

IOException if an error occurs during the `marshal` (p. 76).

Reimplemented from `activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller` (p. 2587).

6.598.3.6 virtual void activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::tightMarshal2 (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataOutputStream * *dataOut*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Write a object instance to data output stream.

Parameters:

wireFormat - describes the wire format of the broker

dataStructure - Object to be marshaled

dataOut - BinaryReader that provides that data sink

bs - BooleanStream stream used to pack bits from the wire.

Exceptions:

IOException if an error occurs during the **marshal** (p. 76).

Reimplemented from **activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller** (p. 2587).

6.598.3.7 virtual void activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller::tightUnmarshal (OpenWireFormat * *wireFormat*, commands::DataStructure * *dataStructure*, decaf::io::DataInputStream * *dataIn*, utils::BooleanStream * *bs*) throw (decaf::io::IOException) [virtual]

Un-marshall an object instance from the data input stream.

Parameters:

wireFormat - describes the wire format of the broker.

dataStructure - Object to be un-marshaled.

dataIn - BinaryReader that provides that data.

bs - BooleanStream stream used to unpack bits from the wire.

Exceptions:

IOException if an error occurs during the unmarshal.

Reimplemented from **activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller** (p. 2588).

The documentation for this class was generated from the following file:

- src/main/activemq/wireformat/openwire/marshal/v2/XATransactionIdMarshaller.h

Chapter 7

File Documentation

7.1 src/main/activemq/cmsutil/CachedConsumer.h File Reference

```
#include <cms/MessageConsumer.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::CachedConsumer**
A cached message consumer contained within a pooled session.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::cmsutil**

7.2 src/main/activemq/cmsutil/CachedProducer.h File Reference

```
#include <cms/MessageProducer.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::CachedProducer**
A cached message producer contained within a pooled session.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::cmsutil**

7.3 src/main/activemq/cmsutil/CmsAccessor.h File Reference

```
#include <cms/ConnectionFactory.h>
#include <activemq/cmsutil/ResourceLifecycleManager.h>
#include <activemq/util/Config.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
```

Data Structures

- class **activemq::cmsutil::CmsAccessor**

*Base class for **activemq.cmsutil.CmsTemplate** (p. 858) and other CMS-accessing gateway helpers, defining common properties such as the CMS **cms.ConnectionFactory** (p. 978) to operate on.*

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::cmsutil**

7.4 src/main/activemq/cmsutil/CmsDestinationAccessor.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/cmsutil/CmsAccessor.h>
#include <activemq/cmsutil/DynamicDestinationResolver.h>
```

Data Structures

- class **activemq::cmsutil::CmsDestinationAccessor**
Extends the `CmsAccessor` (p. 843) to add support for resolving destination names.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::cmsutil**

7.5 src/main/activemq/cmsutil/CmsTemplate.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/cmsutil/CmsDestinationAccessor.h>
#include <activemq/cmsutil/SessionCallback.h>
#include <activemq/cmsutil/ProducerCallback.h>
#include <activemq/cmsutil/SessionPool.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
#include <cms/ConnectionFactory.h>
#include <cms/DeliveryMode.h>
#include <string>
```

Data Structures

- class **activemq::cmsutil::CmsTemplate**
CmsTemplate (p. 858) simplifies performing synchronous CMS operations.
- class **activemq::cmsutil::CmsTemplate::ProducerExecutor**
- class **activemq::cmsutil::CmsTemplate::ResolveProducerExecutor**
- class **activemq::cmsutil::CmsTemplate::SendExecutor**
- class **activemq::cmsutil::CmsTemplate::ReceiveExecutor**
- class **activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::cmsutil**

7.6 src/main/activemq/cmsutil/DestinationResolver.h File Reference

```
#include <cms/Session.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::DestinationResolver**
*Resolves a CMS destination name to a **Destination**.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::cmsutil**

7.7 src/main/activemq/cmsutil/DynamicDestinationResolver.h File Reference

```
#include <activemq/cmsutil/DestinationResolver.h>
#include <cms/Session.h>
#include <decaf/util/StlMap.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::DynamicDestinationResolver**
*Resolves a CMS destination name to a *Destination*.*
- class **activemq::cmsutil::DynamicDestinationResolver::SessionResolver**
Manages maps of names to topics and queues for a single session.

Namespaces

- namespace **activemq**
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- namespace **activemq::cmsutil**

7.8 src/main/activemq/cmsutil/MessageCreator.h File Reference

```
#include <cms/Session.h>
#include <cms/Message.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::MessageCreator**
Creates the user-defined message to be sent by the `CmsTemplate` (p. 858).

Namespaces

- namespace **activemq**
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- namespace **activemq::cmsutil**

7.9 src/main/activemq/cmsutil/PooledSession.h File Reference

```
#include <cms/Session.h>
#include <decaf/util/STLMap.h>
#include <activemq/cmsutil/CachedProducer.h>
#include <activemq/cmsutil/CachedConsumer.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::PooledSession**
A pooled session object that wraps around a delegate session.

Namespaces

- namespace **activemq**
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- namespace **activemq::cmsutil**

7.10 src/main/activemq/cmsutil/ProducerCallback.h File Reference

```
#include <cms/Session.h>
#include <cms/MessageProducer.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::ProducerCallback**
Callback for sending a message to a CMS destination.

Namespaces

- namespace **activemq**
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- namespace **activemq::cmsutil**

7.11 src/main/activemq/cmsutil/ResourceLifecycleManager.h File Reference

```
#include <cms/Connection.h>
#include <cms/Session.h>
#include <cms/Destination.h>
#include <cms/MessageProducer.h>
#include <cms/MessageConsumer.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::ResourceLifecycleManager**
Manages the lifecycle of a set of CMS resources.

Namespaces

- namespace **activemq**
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- namespace **activemq::cmsutil**

7.12 src/main/activemq/cmsutil/SessionCallback.h File Reference

```
#include <cms/Session.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::SessionCallback**
Callback for executing any number of operations on a provided CMS Session.

Namespaces

- namespace **activemq**
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- namespace **activemq::cmsutil**

7.13 src/main/activemq/cmsutil/SessionPool.h File Reference

```
#include <activemq/cmsutil/PooledSession.h>
#include <decaf/util/concurrent/Mutex.h>
#include <cms/Connection.h>
#include <list>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::cmsutil::SessionPool**
A pool of CMS sessions from the same connection and with the same acknowledge mode.

Namespaces

- namespace **activemq**
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- namespace **activemq::cmsutil**

7.14 src/main/activemq/commands/ActiveMQBlobMessage.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQMessageTemplate.h>
#include <cms/Message.h>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQBlobMessage`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.15 src/main/activemq/commands/ActiveMQBytesMessage.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQMessageTemplate.h>
#include <decaf/io/ByteArrayInputStream.h>
#include <decaf/io/ByteArrayOutputStream.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <cms/BytesMessage.h>
#include <vector>
#include <string>
#include <memory>
```

Data Structures

- class **activemq::commands::ActiveMQBytesMessage**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.16 src/main/activemq/commands/ActiveMQDestination.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/ActiveMQProperties.h>
#include <cms/Destination.h>
#include <decaf/lang/Pointer.h>
#include <vector>
#include <string>
#include <map>
```

Data Structures

- class **activemq::commands::ActiveMQDestination**
- struct **activemq::commands::ActiveMQDestination::DestinationFilter**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.17 src/main/activemq/commands/ActiveMQMapMessage.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQMessageTemplate.h>
#include <activemq/util/PrimitiveMap.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <cms/MapMessage.h>
#include <vector>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQMapMessage`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.18 src/main/activemq/commands/ActiveMQMessage.h File Reference

```
#include <cms/Message.h>
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQMessageTemplate.h>
```

Data Structures

- class **activemq::commands::ActiveMQMessage**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.19 src/main/activemq/commands/ActiveMQMessageTemplate.h File Reference

```
#include <cms/DeliveryMode.h>
#include <activemq/util/Config.h>
#include <activemq/commands/Message.h>
#include <activemq/core/ActiveMQAckHandler.h>
#include <activemq/wireformat/openwire/utils/MessagePropertyInterceptor.h>
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
```

Data Structures

- class `activemq::commands::ActiveMQMessageTemplate< T >`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.20 src/main/activemq/commands/ActiveMQObjectMessage.h File Reference

```
#include <activemq/commands/ActiveMQMessageTemplate.h>
#include <cms/ObjectMessage.h>
#include <activemq/util/Config.h>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQObjectMessage`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.21 src/main/activemq/commands/ActiveMQQueue.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <decaf/lang/Exception.h>
#include <cms/Queue.h>
#include <vector>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQQueue`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.22 src/main/activemq/commands/ActiveMQStreamMessage.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/util/PrimitiveList.h>
#include <activemq/commands/ActiveMQMessage.h>
#include <activemq/commands/ActiveMQMessageTemplate.h>
#include <cms/StreamMessage.h>
#include <cms/MessageNotWriteableException.h>
#include <cms/MessageNotReadableException.h>
#include <cms/MessageFormatException.h>
#include <cms/MessageEOFException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <string>
#include <memory>
```

Data Structures

- class **activemq::commands::ActiveMQStreamMessage**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.23 src/main/activemq/commands/ActiveMQTempDestination.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <cms/Closeable.h>
#include <vector>
#include <string>
```

Data Structures

- class `activemq::commands::ActiveMQTempDestination`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::core`
- namespace `activemq::commands`

7.24 src/main/activemq/commands/ActiveMQTempQueue.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQTempDestination.h>
#include <cms/TemporaryQueue.h>
#include <vector>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQTempQueue`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.25 src/main/activemq/commands/ActiveMQTempTopic.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQTempDestination.h>
#include <cms/TemporaryTopic.h>
#include <vector>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQTempTopic`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.26 src/main/activemq/commands/ActiveMQTextMessage.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQMessageTemplate.h>
#include <cms/TextMessage.h>
#include <vector>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQTextMessage`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.27 src/main/activemq/commands/ActiveMQTopic.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <decaf/lang/Exception.h>
#include <cms/Topic.h>
#include <vector>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::commands::ActiveMQTopic`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.28 src/main/activemq/commands/BaseCommand.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/Command.h>
```

Data Structures

- class **activemq::commands::BaseCommand**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.29 src/main/activemq/commands/BaseDataStructure.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <string>
#include <sstream>
```

Data Structures

- class **activemq::commands::BaseDataStructure**

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::commands**

7.30 src/main/activemq/commands/BooleanExpression.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::commands::BooleanExpression**

Namespaces

- namespace **activemq**

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- namespace **activemq::commands**

7.31 src/main/activemq/commands/BrokerError.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/BaseCommand.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::BrokerError**
This class represents an Exception sent from the Broker.
- struct **activemq::commands::BrokerError::StackTraceElement**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.32 src/main/activemq/commands/BrokerId.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::BrokerId`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.33 src/main/activemq/commands/BrokerInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/BrokerId.h>
#include <activemq/commands/BrokerInfo.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::BrokerInfo**

Namespaces

- namespace **activemq**

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- namespace **activemq::commands**

7.34 src/main/activemq/commands/Command.h File Reference

```
#include <string>
#include <activemq/util/Config.h>
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::commands::Command**

Namespaces

- namespace **activemq**
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- namespace **activemq::state**
- namespace **activemq::commands**

7.35 src/main/activemq/commands/ConnectionControl.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::ConnectionControl`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.36 src/main/activemq/commands/ConnectionError.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/BrokerError.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::ConnectionError**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.37 src/main/activemq/commands/ConnectionId.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::ConnectionId`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.38 src/main/activemq/commands/ConnectionInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/BrokerId.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::ConnectionInfo**

Namespaces

- namespace **activemq**

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- namespace **activemq::commands**

7.39 src/main/activemq/commands/ConsumerControl.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::ConsumerControl`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.40 src/main/activemq/commands/ConsumerId.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/SessionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::ConsumerId**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.41 src/main/activemq/commands/ConsumerInfo.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/BooleanExpression.h>
#include <activemq/commands/BrokerId.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::ConsumerInfo**

Namespaces

- namespace **activemq**

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- namespace **activemq::commands**

7.42 src/main/activemq/commands/ControlCommand.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::ControlCommand**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.43 src/main/activemq/commands/DataArrayResponse.h File Reference

```
#include <activemq/commands/DataSet.h>
#include <activemq/commands/Response.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::DataArrayResponse`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.44 src/main/activemq/commands/DataResponse.h File Reference

```
#include <activemq/commands/DataSet.h>
#include <activemq/commands/Response.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::DataResponse`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.45 src/main/activemq/commands/DataStructure.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/wireformat/MarshalAware.h>
```

Data Structures

- class **activemq::commands::DataStructure**

Namespaces

- namespace **activemq**

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- namespace **activemq::commands**

7.46 src/main/activemq/commands/DestinationInfo.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/BrokerId.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::DestinationInfo`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.47 src/main/activemq/commands/DiscoveryEvent.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::DiscoveryEvent**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.48 src/main/activemq/commands/ExceptionResponse.h File Reference

```
#include <activemq/commands/BrokerError.h>
#include <activemq/commands/Response.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::ExceptionResponse`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.49 src/main/activemq/commands/FlushCommand.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::FlushCommand`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.50 src/main/activemq/commands/IntegerResponse.h File Reference

```
#include <activemq/commands/Response.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::IntegerResponse**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.51 src/main/activemq/commands/JournalQueueAck.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/MessageAck.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::JournalQueueAck**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.52 src/main/activemq/commands/JournalTopicAck.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/MessageId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::JournalTopicAck`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.53 src/main/activemq/commands/JournalTrace.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::JournalTrace**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.54 src/main/activemq/commands/JournalTransaction.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::JournalTransaction**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.55 src/main/activemq/commands/KeepAliveInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::KeepAliveInfo`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.56 src/main/activemq/commands/LastPartialCommand.h File Reference

```
#include <activemq/commands/PartialCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::LastPartialCommand`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.57 src/main/activemq/commands/LocalTransactionId.h File Reference

```
#include <activemq/commands/ConnectionId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::LocalTransactionId**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.58 src/main/activemq/commands/Message.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/BrokerId.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/DataSet.h>
#include <activemq/commands/MessageId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
#include <activemq/util/PrimitiveMap.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/Date.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::Message**

Namespaces

- namespace **activemq**

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- namespace **activemq::core**
- namespace **activemq::commands**

7.59 src/main/cms/Message.h File Reference

```
#include <cms/Config.h>
#include <cms/Destination.h>
#include <cms/CMSException.h>
#include <cms/DeliveryMode.h>
```

Data Structures

- class **cms::Message**
Root of all messages.

Namespaces

- namespace **cms**
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7.60 src/main/activemq/commands/MessageAck.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/MessageId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::MessageAck**

Namespaces

- namespace **activemq**

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- namespace **activemq::commands**

7.61 src/main/activemq/commands/MessageDispatch.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/Message.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::MessageDispatch`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::commands`

7.62 src/main/activemq/commands/MessageDispatchNotification.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/MessageId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::MessageDispatchNotification**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.63 src/main/activemq/commands/MessageId.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::MessageId`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.64 src/main/activemq/commands/MessagePull.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/MessageId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::MessagePull`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.65 src/main/activemq/commands/NetworkBridgeFilter.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/BrokerId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::NetworkBridgeFilter`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.66 src/main/activemq/commands/PartialCommand.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::PartialCommand**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.67 src/main/activemq/commands/ProducerAck.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::ProducerAck**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.68 src/main/activemq/commands/ProducerId.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/SessionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::ProducerId**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.69 src/main/activemq/commands/ProducerInfo.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/BrokerId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::ProducerInfo`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.70 src/main/activemq/commands/RemoveInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/DataSet.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::RemoveInfo`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::commands`

7.71 src/main/activemq/commands/RemoveSubscriptionInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::RemoveSubscriptionInfo**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.72 src/main/activemq/commands/ReplayCommand.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::ReplayCommand`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.73 src/main/activemq/commands/Response.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::Response**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.74 src/main/activemq/commands/SessionId.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::SessionId**

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::commands**

7.75 src/main/activemq/commands/SessionInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/SessionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::SessionInfo`

Namespaces

- namespace `activemq`
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- namespace `activemq::commands`

7.76 src/main/activemq/commands/ShutdownInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class `activemq::commands::ShutdownInfo`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::commands`

7.77 src/main/activemq/commands/SubscriptionInfo.h File Reference

```
#include <activemq/commands/ActiveMQDestination.h>
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::SubscriptionInfo**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.78 src/main/activemq/commands/TransactionId.h File Reference

```
#include <activemq/commands/BaseDataStructure.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::TransactionId**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::commands**

7.79 src/main/activemq/commands/TransactionInfo.h File Reference

```
#include <activemq/commands/BaseCommand.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::TransactionInfo**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.80 src/main/activemq/commands/WireFormatInfo.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/BaseCommand.h>
#include <activemq/util/PrimitiveMap.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <vector>
```

Data Structures

- class **activemq::commands::WireFormatInfo**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.81 src/main/activemq/commands/XATransactionId.h File Reference

```
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <vector>
```

Data Structures

- class **activemq::commands::XATransactionId**

Namespaces

- namespace **activemq**
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- namespace **activemq::commands**

7.82 src/main/activemq/core/ActiveMQAckHandler.h File Reference

```
#include <cms/CMSException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/Message.h>
```

Data Structures

- class **activemq::core::ActiveMQAckHandler**

Interface class that is used to give CMS Messages an interface to Ack themselves with.

Namespaces

- namespace **activemq**

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- namespace **activemq::core**

7.83 src/main/activemq/core/ActiveMQConnection.h File Reference

```
#include <cms/Connection.h>
#include <activemq/util/Config.h>
#include <activemq/core/ActiveMQConnectionSupport.h>
#include <activemq/core/ActiveMQConnectionMetaData.h>
#include <activemq/core/Dispatcher.h>
#include <activemq/commands/ActiveMQTempDestination.h>
#include <activemq/commands/BrokerInfo.h>
#include <activemq/commands/ConnectionInfo.h>
#include <activemq/commands/ConsumerInfo.h>
#include <activemq/commands/ProducerInfo.h>
#include <activemq/commands/LocalTransactionId.h>
#include <activemq/commands/WireFormatInfo.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <decaf/util/Properties.h>
#include <decaf/util/STLMap.h>
#include <decaf/util/STLSet.h>
#include <decaf/util/concurrent/atomic/AtomicBoolean.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
#include <string>
#include <memory>
```

Data Structures

- class **activemq::core::ActiveMQConnection**
Concrete connection used for all connectors to the ActiveMQ broker.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::core**

7.84 src/main/activemq/core/ActiveMQConnectionFactory.h File Reference

```
#include <activemq/util/Config.h>
#include <cms/ConnectionFactory.h>
#include <cms/Connection.h>
```

Data Structures

- class **activemq::core::ActiveMQConnectionFactory**

Namespaces

- namespace **activemq**
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- namespace **activemq::core**

7.85 src/main/activemq/core/ActiveMQConnectionMetaData.h File Reference

```
#include <activemq/util/Config.h>
#include <cms/ConnectionMetaData.h>
```

Data Structures

- class **activemq::core::ActiveMQConnectionMetaData**

*This class houses all the various settings and information that is used by an instance of an **ActiveMQConnection** (p. 190) class.*

Namespaces

- namespace **activemq**

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- namespace **activemq::core**

7.86 src/main/activemq/core/ActiveMQConnectionSupport.h File Reference

```
#include <cms/ExceptionListener.h>
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/transport/Transport.h>
#include <activemq/transport/TransportListener.h>
#include <activemq/util/LongSequenceGenerator.h>
#include <decaf/util/Properties.h>
#include <decaf/lang/Exception.h>
#include <decaf/lang/Pointer.h>
#include <memory>
```

Data Structures

- class **activemq::core::ActiveMQConnectionSupport**

Namespaces

- namespace **activemq**
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- namespace **activemq::core**

7.87 src/main/activemq/core/ActiveMQConstants.h File Reference

```
#include <string>
#include <map>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::core::ActiveMQConstants**
Class holding constant values for various ActiveMQ specific things Each constant is defined as an enumeration and has functions that convert back and forth between string and enum values.
- class **activemq::core::ActiveMQConstants::StaticInitializer**

Namespaces

- namespace **activemq**
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- namespace **activemq::core**

7.88 src/main/activemq/core/ActiveMQConsumer.h File Reference

```
#include <cms/MessageConsumer.h>
#include <cms/MessageListener.h>
#include <cms/Message.h>
#include <cms/CMSException.h>
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/commands/ConsumerInfo.h>
#include <activemq/commands/MessageAck.h>
#include <activemq/commands/MessageDispatch.h>
#include <activemq/core/ActiveMQAckHandler.h>
#include <activemq/core/ActiveMQTransactionContext.h>
#include <activemq/core/Dispatcher.h>
#include <activemq/core/MessageDispatchChannel.h>
#include <decaf/util/concurrent/atomic/AtomicBoolean.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/StlQueue.h>
#include <decaf/util/concurrent/Mutex.h>
#include <memory>
```

Data Structures

- class **activemq::core::ActiveMQConsumer**

Namespaces

- namespace **activemq**

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- namespace **activemq::core**

7.89 src/main/activemq/core/ActiveMQProducer.h File Reference

```
#include <cms/MessageProducer.h>
#include <cms/Message.h>
#include <cms/Destination.h>
#include <cms/DeliveryMode.h>
#include <activemq/util/Config.h>
#include <activemq/util/MemoryUsage.h>
#include <activemq/commands/ProducerInfo.h>
#include <activemq/commands/ProducerAck.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <memory>
```

Data Structures

- class **activemq::core::ActiveMQProducer**

Namespaces

- namespace **activemq**
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- namespace **activemq::core**

7.90 src/main/activemq/core/ActiveMQSession.h File Reference

```
#include <cms/Session.h>
#include <cms/ExceptionListener.h>
#include <activemq/util/Config.h>
#include <activemq/util/Usage.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/core/ActiveMQTransactionContext.h>
#include <activemq/commands/ActiveMQTempDestination.h>
#include <activemq/commands/SessionInfo.h>
#include <activemq/commands/ConsumerInfo.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/core/Dispatcher.h>
#include <activemq/core/MessageDispatchChannel.h>
#include <activemq/util/LongSequenceGenerator.h>
#include <decaf/util/StlMap.h>
#include <decaf/util/StlQueue.h>
#include <decaf/util/Properties.h>
#include <string>
#include <memory>
```

Data Structures

- class **activemq::core::ActiveMQSession**

Namespaces

- namespace **activemq**

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- namespace **activemq::core**

7.91 src/main/activemq/core/ActiveMQSessionExecutor.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/core/MessageDispatchChannel.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/MessageDispatch.h>
#include <activemq/threads/Task.h>
#include <activemq/threads/TaskRunner.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::core::ActiveMQSessionExecutor**
Delegate dispatcher for a single session.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::core**

7.92 src/main/activemq/core/ActiveMQTransactionContext.h File Reference

```
#include <memory>
#include <cms/Message.h>
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/commands/LocalTransactionId.h>
#include <activemq/core/Synchronization.h>
#include <activemq/util/LongSequenceGenerator.h>
#include <decaf/lang/exceptions/InvalidStateException.h>
#include <decaf/util/StlSet.h>
#include <decaf/util/Properties.h>
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **activemq::core::ActiveMQTransactionContext**
Transaction Management class, hold messages that are to be redelivered upon a request to roll-back.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::core**

7.93 src/main/activemq/core/DispatchData.h File Reference

```
#include <stdlib.h>
#include <memory>
#include <activemq/util/Config.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/Message.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::core::DispatchData**

Simple POCO that contains the information necessary to route a message to a specified consumer.

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::core**

7.94 src/main/activemq/core/Dispatcher.h File Reference

```
#include <activemq/commands/MessageDispatch.h>
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::core::Dispatcher**

Interface for an object responsible for dispatching messages to consumers.

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::core**

7.95 src/main/activemq/core/MessageDispatchChannel.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/MessageDispatch.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/StlQueue.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class `activemq::core::MessageDispatchChannel`

Namespaces

- namespace `activemq`
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- namespace `activemq::core`

7.96 src/main/activemq/core/Synchronization.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
```

Data Structures

- class **activemq::core::Synchronization**
*Transacted Object **Synchronization** (p. 2516), used to sync the events of a Transaction with the items in the Transaction.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::core**

7.97 src/main/activemq/exceptions/ActiveMQException.h File Reference

```
#include <activemq/util/Config.h>
#include <cms/CMSException.h>
#include <decaf/lang/Exception.h>
#include <activemq/exceptions/ExceptionDefines.h>
#include <stdarg.h>
#include <sstream>
```

Data Structures

- class `activemq::exceptions::ActiveMQException`

Namespaces

- namespace `activemq`
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- namespace `activemq::exceptions`

7.98 src/main/activemq/exceptions/BrokerException.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/commands/BrokerError.h>
#include <sstream>
```

Data Structures

- class `activemq::exceptions::BrokerException`

Namespaces

- namespace `activemq`
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- namespace `activemq::exceptions`

7.99 src/main/activemq/exceptions/ExceptionDefines.h File Reference

Defines

- `#define AMQ_CATCH_RETHROW(type)`
Macro for catching and re-throwing an exception of a given type.
- `#define AMQ_CATCH_EXCEPTION_CONVERT(sourceType, targetType)`
Macro for catching an exception of one type and then re-throwing as another type.
- `#define AMQ_CATCHALL_THROW(type)`
A catch-all that throws a known exception.
- `#define AMQ_CATCHALL_NOTHROW()`
A catch-all that does not throw an exception, one use would be to catch any exception in a destructor and mark it, but not throw so that cleanup would continue as normal.
- `#define AMQ_CATCH_NOTHROW(type)`
Macro for catching and re-throwing an exception of a given type.
- `#define AMQ_CATCH_ALL_THROW_CMSEXCEPTION()`
Macro for catching an exception of one type and then re-throwing as a Basic CMSException, good for cases where the method isn't specific about what CMS Exceptions are thrown, bad if you need to throw an exception of MessageNotReadableException for instance.

7.99.1 Define Documentation

7.99.1.1 `#define AMQ_CATCH_ALL_THROW_CMSEXCEPTION()`

Value:

```
catch( cms::CMSException& ex ){ \
    ex.setMark( __FILE__, __LINE__ ); \
    throw ex; \
} catch( activemq::exceptions::ActiveMQException& ex ){ \
    ex.setMark( __FILE__, __LINE__ ); \
    throw ex.convertToCMSException(); \
} catch( decaf::lang::Exception& ex ){ \
    ex.setMark( __FILE__, __LINE__ ); \
    activemq::exceptions::ActiveMQException amqEx( ex ); \
    throw amqEx.convertToCMSException(); \
} catch( std::exception& ex ){ \
    throw cms::CMSException( ex.what(), NULL ); \
} catch(...) { \
    throw cms::CMSException( "Caught Unknown Exception", NULL ); \
}
```

Macro for catching an exception of one type and then re-throwing as a Basic CMSException, good for cases where the method isn't specific about what CMS Exceptions are thrown, bad if you need to throw an exception of MessageNotReadableException for instance.

Referenced by `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::acknowledge()`, `activemq::commands::ActiveMQTempTopic::destroy()`, `activemq::commands::ActiveMQTempQueue::destroy()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getBooleanProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getByteProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getDoubleProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getFloatProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getIntProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getLongProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getShortProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::getStringProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setBooleanProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setByteProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setDoubleProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setFloatProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setIntProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setLongProperty()`, `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setShortProperty()`, and `activemq::commands::ActiveMQMessageTemplate< cms::ObjectMessage >::setStringProperty()`.

7.99.1.2 `#define AMQ_CATCH_EXCEPTION_CONVERT(sourceType, targetType)`

Value:

```
catch( sourceType& ex ){ \
    targetType target( ex ); \
    target.setMark( __FILE__, __LINE__ ); \
    throw target; \
}
```

Macro for catching an exception of one type and then re-throwing as another type.

Parameters:

sourceType the type of the exception to be caught.

targetType the type of the exception to be thrown.

Referenced by `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalObjectArray()`, `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray1()`, and `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray2()`.

7.99.1.3 `#define AMQ_CATCH_NOTHROW(type)`

Value:

```
catch( type& ex ){ \
    ex.setMark( __FILE__, __LINE__ ); \
}
```

Macro for catching and re-throwing an exception of a given type.

Parameters:

type The type of the exception to throw (e.g. `ActiveMQException`).

7.99.1.4 #define AMQ_CATCH_RETHROW(type)

Value:

```
catch( type& ex ){ \
    ex.setMark( __FILE__, __LINE__ ); \
    throw ex; \
}
```

Macro for catching and re-throwing an exception of a given type.

Parameters:

type The type of the exception to throw (e.g. ActiveMQException).

Referenced by `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalObjectArray()`, `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray1()`, and `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray2()`.

7.99.1.5 #define AMQ_CATCHALL_NOTHROW()

Value:

```
catch( ... ){ \
    activemq::exceptions::ActiveMQException ex( __FILE__, __LINE__, \
    "caught unknown exception, not rethrowing" ); \
}
```

A catch-all that does not throw an exception, one use would be to catch any exception in a destructor and mark it, but not throw so that cleanup would continue as normal.

7.99.1.6 #define AMQ_CATCHALL_THROW(type)

Value:

```
catch( ... ){ \
    type ex( __FILE__, __LINE__, \
    "caught unknown exception" ); \
    throw ex; \
}
```

A catch-all that throws a known exception.

Parameters:

type the type of exception to be thrown.

Referenced by `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::looseMarshalObjectArray()`, `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray1()`, and `activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller::tightMarshalObjectArray2()`.

7.100 src/main/decaf/lang/exceptions/ExceptionDefines.h File Reference

Defines

- `#define DECAF_CATCH_RETHROW(type)`
Macro for catching and rethrowing an exception of a given type.
- `#define DECAF_CATCH_EXCEPTION_CONVERT(sourceType, targetType)`
Macro for catching an exception of one type and then rethrowing as another type.
- `#define DECAF_CATCHALL_THROW(type)`
A catch-all that throws a known exception.
- `#define DECAF_CATCHALL_NOTHROW()`
A catch-all that does not throw an exception, one use would be to catch any exception in a destructor and mark it, but not throw so that cleanup would continue as normal.
- `#define DECAF_CATCH_NOTHROW(type)`
Macro for catching and rethrowing an exception of a given type.

7.100.1 Define Documentation

7.100.1.1 `#define DECAF_CATCH_EXCEPTION_CONVERT(sourceType, targetType)`

Value:

```
catch( sourceType& ex ){ \
    targetType target( &ex ); \
    target.setMark( __FILE__, __LINE__ ); \
    throw target; \
}
```

Macro for catching an exception of one type and then rethrowing as another type.

Parameters:

sourceType the type of the exception to be caught.

targetType the type of the exception to be thrown.

7.100.1.2 `#define DECAF_CATCH_NOTHROW(type)`

Value:

```
catch( type& ex ){ \
    ex.setMark( __FILE__, __LINE__ ); \
}
```

Macro for catching and rethrowing an exception of a given type.

Parameters:

type The type of the exception to throw (e.g. `Exception`).

Referenced by `decaf::io::FilterInputStream::~~FilterInputStream()`, `decaf::io::FilterOutputStream::~~FilterOutputStream()`, and `decaf::util::logging::StreamHandler::~~StreamHandler()`.

7.100.1.3 #define DECAF_CATCH_RETHROW(type)**Value:**

```
catch( type& ex ){ \
    ex.setMark( __FILE__, __LINE__ ); \
    throw ex; \
}
```

Macro for catching and rethrowing an exception of a given type.

Parameters:

type The type of the exception to throw (e.g. `Exception`).

Referenced by `decaf::io::FilterInputStream::available()`, `decaf::io::FilterOutputStream::close()`, `decaf::io::FilterInputStream::close()`, `decaf::io::FilterOutputStream::flush()`, `decaf::util::concurrent::Lock::lock()`, `decaf::util::concurrent::Lock::Lock()`, `decaf::util::logging::StreamHandler::publish()`, `decaf::io::FilterInputStream::read()`, `decaf::io::FilterInputStream::reset()`, `decaf::io::FilterInputStream::skip()`, `decaf::util::concurrent::Lock::unlock()`, `decaf::io::FilterOutputStream::write()`, and `decaf::util::concurrent::Lock::~~Lock()`.

7.100.1.4 #define DECAF_CATCHALL_NOTHROW()**Value:**

```
catch( ... ){ \
    lang::Exception ex( __FILE__, __LINE__, \
        "caught unknown exception, not rethrowing" ); \
}
```

A catch-all that does not throw an exception, one use would be to catch any exception in a destructor and mark it, but not throw so that cleanup would continue as normal.

Referenced by `decaf::io::FilterInputStream::mark()`, `decaf::io::FilterInputStream::markSupported()`, `decaf::io::FilterInputStream::~~FilterInputStream()`, `decaf::io::FilterOutputStream::~~FilterOutputStream()`, and `decaf::util::logging::StreamHandler::~~StreamHandler()`.

7.100.1.5 #define DECAF_CATCHALL_THROW(type)**Value:**

```
catch( ... ){ \
    type ex( __FILE__, __LINE__, \
        "caught unknown exception" ); \
    throw ex; \
}
```

A catch-all that throws a known exception.

Parameters:

type the type of exception to be thrown.

Referenced by `decaf::io::FilterInputStream::available()`, `decaf::io::FilterOutputStream::close()`,
`decaf::io::FilterInputStream::close()`, `decaf::io::FilterOutputStream::flush()`, `de-`
`caf::util::concurrent::Lock::lock()`, `decaf::util::concurrent::Lock::Lock()`, `de-`
`caf::util::logging::StreamHandler::publish()`, `decaf::io::FilterInputStream::read()`,
`decaf::io::FilterInputStream::reset()`, `decaf::io::FilterInputStream::skip()`, `de-`
`caf::util::concurrent::Lock::unlock()`, `decaf::io::FilterOutputStream::write()`, `and`
`decaf::util::concurrent::Lock::~~Lock()`.

7.101 src/main/activemq/io/LoggingInputStream.h File Reference

```
#include <activemq/util/Config.h>
#include <decaf/io/FilterInputStream.h>
#include <decaf/util/logging/LoggerDefines.h>
#include <decaf/lang/exceptions/NullPointerException.h>
```

Data Structures

- class **activemq::io::LoggingInputStream**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::io**

7.102 src/main/activemq/io/LoggingOutputStream.h File Reference

```
#include <activemq/util/Config.h>
#include <decaf/io/FilterOutputStream.h>
#include <decaf/util/logging/LoggerDefines.h>
```

Data Structures

- class **activemq::io::LoggingOutputStream**
OutputStream filter that just logs the data being written.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::io**

7.103 src/main/activemq/library/ActiveMQCPP.h File Reference

```
#include <activemq/util/Config.h>
```

Data Structures

- class `activemq::library::ActiveMQCPP`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::library`

7.104 src/main/activemq/state/CommandVisitor.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::state::CommandVisitor**

Interface for an Object that can visit the various Command Objects that are sent from and to this client.

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::commands**
- namespace **activemq::state**

7.105 src/main/activemq/state/CommandVisitorAdapter.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/state/CommandVisitor.h>
#include <activemq/core/ActiveMQConstants.h>
#include <activemq/commands/ConnectionInfo.h>
#include <activemq/commands/SessionInfo.h>
#include <activemq/commands/ProducerInfo.h>
#include <activemq/commands/ConsumerInfo.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/commands/SessionId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/DestinationInfo.h>
#include <activemq/commands/RemoveSubscriptionInfo.h>
#include <activemq/commands/Message.h>
#include <activemq/commands/MessageAck.h>
#include <activemq/commands/MessagePull.h>
#include <activemq/commands/TransactionInfo.h>
#include <activemq/commands/WireFormatInfo.h>
#include <activemq/commands/ProducerAck.h>
#include <activemq/commands/MessageDispatch.h>
#include <activemq/commands/MessageDispatchNotification.h>
#include <activemq/commands/ControlCommand.h>
#include <activemq/commands/ConnectionError.h>
#include <activemq/commands/ConnectionControl.h>
#include <activemq/commands/ConsumerControl.h>
#include <activemq/commands/ShutdownInfo.h>
#include <activemq/commands/KeepAliveInfo.h>
#include <activemq/commands/FlushCommand.h>
#include <activemq/commands/BrokerError.h>
#include <activemq/commands/BrokerInfo.h>
#include <activemq/commands/RemoveInfo.h>
#include <activemq/commands/ReplayCommand.h>
#include <activemq/commands/Response.h>
```

Data Structures

- class **activemq::state::CommandVisitorAdapter**

*Default Implementation of a **CommandVisitor** (p. 885) that returns NULL for all calls.*

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::state**

7.106 src/main/activemq/state/ConnectionState.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ConnectionInfo.h>
#include <activemq/commands/DestinationInfo.h>
#include <activemq/commands/SessionInfo.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/state/ConsumerState.h>
#include <activemq/state/ProducerState.h>
#include <activemq/state/SessionState.h>
#include <activemq/state/TransactionState.h>
#include <decaf/util/concurrent/atomic/AtomicBoolean.h>
#include <decaf/util/concurrent/ConcurrentStlMap.h>
#include <decaf/util/StlList.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <memory>
```

Data Structures

- class **activemq::state::ConnectionState**

Namespaces

- namespace **activemq**

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- namespace **activemq::state**

7.107 src/main/activemq/state/ConnectionStateTracker.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ConnectionId.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/state/CommandVisitorAdapter.h>
#include <activemq/state/ConnectionState.h>
#include <activemq/state/ConsumerState.h>
#include <activemq/state/ProducerState.h>
#include <activemq/state/SessionState.h>
#include <activemq/state/TransactionState.h>
#include <activemq/state/Tracked.h>
#include <activemq/transport/Transport.h>
#include <decaf/util/concurrent/ConcurrentStlMap.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class `activemq::state::ConnectionStateTracker`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::state`

7.108 src/main/activemq/state/ConsumerState.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ConsumerInfo.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::state::ConsumerState`

Namespaces

- namespace `activemq`
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- namespace `activemq::state`

7.109 src/main/activemq/state/ProducerState.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/ProducerInfo.h>
#include <decaf/lang/Pointer.h>
#include <string>
#include <memory>
```

Data Structures

- class **activemq::state::ProducerState**

Namespaces

- namespace **activemq**
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- namespace **activemq::state**

7.110 src/main/activemq/state/SessionState.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/SessionInfo.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/state/ConsumerState.h>
#include <activemq/state/ProducerState.h>
#include <decaf/util/concurrent/atomic/AtomicBoolean.h>
#include <decaf/util/concurrent/ConcurrentStlMap.h>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::state::SessionState`

Namespaces

- namespace `activemq`
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- namespace `activemq::state`

7.111 src/main/activemq/state/Tracked.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/Response.h>
#include <decaf/lang/Runnable.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::state::Tracked**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::state**

7.112 src/main/activemq/state/TransactionState.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/Command.h>
#include <activemq/commands/TransactionId.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/StlList.h>
#include <decaf/util/concurrent/atomic/AtomicBoolean.h>
#include <string>
#include <memory>
```

Data Structures

- class `activemq::state::TransactionState`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::state`

7.113 src/main/activemq/threads/CompositeTask.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/threads/Task.h>
```

Data Structures

- class **activemq::threads::CompositeTask**
Represents a single task that can be part of a set of Tasks that are contained in a CompositeTaskRunner (p. 908).

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::threads**

7.114 src/main/activemq/threads/CompositeTaskRunner.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/threads/TaskRunner.h>
#include <activemq/threads/CompositeTask.h>
#include <decaf/util/StlSet.h>
#include <decaf/util/StlList.h>
#include <decaf/lang/Thread.h>
#include <decaf/lang/Runnable.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::threads::CompositeTaskRunner**

A *Task* (p. 2520) Runner that can contain one or more *CompositeTasks* that are each checked for pending work and run if any is present in the order that the tasks were added.

Namespaces

- namespace **activemq**

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- namespace **activemq::threads**

7.115 src/main/activemq/threads/DedicatedTaskRunner.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/threads/TaskRunner.h>
#include <activemq/threads/Task.h>
#include <decaf/lang/Thread.h>
#include <decaf/lang/Runnable.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::threads::DedicatedTaskRunner**

Namespaces

- namespace **activemq**
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- namespace **activemq::threads**

7.116 src/main/activemq/threads/Task.h File Reference

```
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::threads::Task**

Represents a unit of work that requires one or more iterations to complete.

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::threads**

7.117 src/main/activemq/threads/TaskRunner.h File Reference

```
#include <activemq/util/Config.h>  
#include <activemq/threads/Task.h>
```

Data Structures

- class **activemq::threads::TaskRunner**

Namespaces

- namespace **activemq**

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- namespace **activemq::threads**

7.118 src/main/activemq/transport/AbstractTransportFactory.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/Transport.h>
#include <activemq/transport/TransportFactory.h>
#include <activemq/wireformat/WireFormat.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/Properties.h>
```

Data Structures

- class **activemq::transport::AbstractTransportFactory**
*Abstract implementation of the **TransportFactory** (p. 2614) interface, providing the base functionality that's common to most of the **TransportFactory** (p. 2614) instances.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**

7.119 src/main/activemq/transport/CompositeTransport.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/Transport.h>
#include <decaf/net/URI.h>
#include <decaf/util/List.h>
```

Data Structures

- class **activemq::transport::CompositeTransport**

*A Composite **Transport** (p. 2608) is a **Transport** (p. 2608) implementation that is composed of several **Transports**.*

Namespaces

- namespace **activemq**

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- namespace **activemq::transport**

7.120 src/main/activemq/transport/correlator/FutureResponse.h File Reference

```
#include <activemq/util/Config.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/concurrent/CountDownLatch.h>
#include <activemq/commands/Response.h>
#include <activemq/exceptions/ActiveMQException.h>
```

Data Structures

- class **activemq::transport::correlator::FutureResponse**

A container that holds a response object.

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::transport**
- namespace **activemq::transport::correlator**

7.121 src/main/activemq/transport/correlator/ResponseCorrelator.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/TransportFilter.h>
#include <activemq/transport/correlator/FutureResponse.h>
#include <activemq/commands/Command.h>
#include <activemq/commands/Response.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/concurrent/Concurrent.h>
#include <decaf/util/concurrent/atomic/AtomicInteger.h>
#include <map>
#include <stdio.h>
```

Data Structures

- class **activemq::transport::correlator::ResponseCorrelator**

*This type of **transport** (p. 67) filter is responsible for correlating asynchronous responses with requests.*

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::transport**
- namespace **activemq::transport::correlator**

7.122 src/main/activemq/transport/DefaultTransportListener.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/TransportListener.h>
#include <activemq/commands/Command.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::transport::DefaultTransportListener**

Namespaces

- namespace **activemq**
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- namespace **activemq::transport**

7.123 src/main/activemq/transport/failover/BackupTransport.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/Transport.h>
#include <activemq/transport/DefaultTransportListener.h>
#include <decaf/net/URI.h>
#include <decaf/lang/Pointer.h>
#include <memory>
```

Data Structures

- class `activemq::transport::failover::BackupTransport`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::transport`
- namespace `activemq::transport::failover`

7.124 src/main/activemq/transport/failover/BackupTransportPool.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/threads/CompositeTask.h>
#include <activemq/threads/CompositeTaskRunner.h>
#include <activemq/transport/failover/CloseTransportsTask.h>
#include <activemq/transport/failover/BackupTransport.h>
#include <activemq/transport/failover/URIPool.h>
#include <decaf/lang/Pointer.h>
#include <decaf/io/IOException.h>
#include <decaf/util/StlList.h>
```

Data Structures

- class `activemq::transport::failover::BackupTransportPool`

Namespaces

- namespace `activemq`

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- namespace `activemq::transport`
- namespace `activemq::transport::failover`

7.125 src/main/activemq/transport/failover/CloseTransportsTask.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/threads/CompositeTask.h>
#include <activemq/transport/Transport.h>
#include <decaf/util/StlQueue.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class `activemq::transport::failover::CloseTransportsTask`

Namespaces

- namespace `activemq`
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace `activemq::transport`
- namespace `activemq::transport::failover`

7.126 src/main/activemq/transport/failover/FailoverTransport.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/Command.h>
#include <activemq/threads/TaskRunner.h>
#include <activemq/threads/CompositeTaskRunner.h>
#include <activemq/state/ConnectionStateTracker.h>
#include <activemq/transport/CompositeTransport.h>
#include <activemq/transport/failover/BackupTransportPool.h>
#include <activemq/transport/failover/CloseTransportsTask.h>
#include <activemq/transport/failover/FailoverTransportListener.h>
#include <activemq/transport/failover/URIPool.h>
#include <activemq/wireformat/WireFormat.h>
#include <decaf/util/StlList.h>
#include <decaf/util/StlMap.h>
#include <decaf/util/Properties.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/concurrent/atomic/AtomicReference.h>
#include <decaf/net/URI.h>
#include <decaf/io/IOException.h>
```

Data Structures

- class `activemq::transport::failover::FailoverTransport`

Namespaces

- namespace `activemq`

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- namespace `activemq::transport`
- namespace `activemq::transport::failover`

7.127 src/main/activemq/transport/failover/FailoverTransportFactory.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/AbstractTransportFactory.h>
#include <activemq/transport/Transport.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/wireformat/WireFormat.h>
#include <decaf/net/URI.h>
#include <decaf/util/Properties.h>
```

Data Structures

- class **activemq::transport::failover::FailoverTransportFactory**
*Creates an instance of a **FailoverTransport** (p. 1296).*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::failover**

7.128 src/main/activemq/transport/failover/FailoverTransportListener. File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/TransportListener.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::transport::failover::FailoverTransportListener**
*Utility class used by the **Transport** (p. 2608) to perform the work of responding to events from the active **Transport** (p. 2608).*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::failover**

7.129 src/main/activemq/transport/failover/URIPool.h File Reference

```
#include <activemq/util/Config.h>
#include <decaf/net/URI.h>
#include <decaf/util/StlList.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
```

Data Structures

- class **activemq::transport::failover::URIPool**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::failover**

7.130 src/main/activemq/transport/IOTransport.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/Transport.h>
#include <activemq/transport/TransportListener.h>
#include <activemq/commands/Command.h>
#include <activemq/commands/Response.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/wireformat/WireFormat.h>
#include <decaf/lang/Runnable.h>
#include <decaf/lang/Thread.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/util/logging/LoggerDefines.h>
#include <memory>
```

Data Structures

- class **activemq::transport::IOTransport**
*Implementation of the **Transport** (p. 2608) interface that performs marshaling of **commands** (p. 59) to IO streams.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**

7.131 src/main/activemq/transport/logging/LoggingTransport.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/TransportFilter.h>
#include <decaf/util/logging/LoggerDefines.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::transport::logging::LoggingTransport**
*A **transport** (p. 67) filter that logs **commands** (p. 59) as they are sent/received.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::logging**

7.132 src/main/activemq/transport/mock/InternalCommandListener.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/mock/ResponseBuilder.h>
#include <activemq/transport/DefaultTransportListener.h>
#include <decaf/lang/Thread.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/StlQueue.h>
#include <decaf/util/concurrent/Concurrent.h>
#include <decaf/util/concurrent/atomic/AtomicInteger.h>
#include <decaf/util/concurrent/CountDownLatch.h>
```

Data Structures

- class **activemq::transport::mock::InternalCommandListener**
*Listens for Commands sent from the **MockTransport** (p. 1910).*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::mock**

7.133 src/main/activemq/transport/mock/MockTransport.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/transport/Transport.h>
#include <activemq/transport/TransportListener.h>
#include <activemq/transport/DefaultTransportListener.h>
#include <activemq/transport/mock/ResponseBuilder.h>
#include <activemq/transport/mock/InternalCommandListener.h>
#include <activemq/wireformat/WireFormat.h>
#include <decaf/lang/Thread.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/StlQueue.h>
#include <decaf/util/concurrent/Concurrent.h>
#include <decaf/util/concurrent/atomic/AtomicInteger.h>
#include <decaf/util/concurrent/CountDownLatch.h>
#include <cms/Message.h>
#include <map>
#include <set>
```

Data Structures

- class **activemq::transport::mock::MockTransport**

*The **MockTransport** (p. 1910) defines a base level **Transport** (p. 2608) class that is intended to be used in place of an a regular protocol **Transport** (p. 2608) such as TCP.*

Namespaces

- namespace **activemq**

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- namespace **activemq::transport**
- namespace **activemq::transport::mock**

7.134 src/main/activemq/transport/mock/MockTransportFactory.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/AbstractTransportFactory.h>
```

Data Structures

- class **activemq::transport::mock::MockTransportFactory**
Manufactures MockTransports, which are objects that read from input streams and write to output streams.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::mock**

7.135 src/main/activemq/transport/mock/ResponseBuilder.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/Command.h>
#include <activemq/commands/Response.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/StlQueue.h>
```

Data Structures

- class **activemq::transport::mock::ResponseBuilder**
Interface for all Protocols to implement that defines the behavior of the Broker in response to messages of that protocol.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::mock**

7.136 src/main/activemq/transport/tcp/TcpTransport.h File Reference

```
#include <activemq/io/LoggingInputStream.h>
#include <activemq/io/LoggingOutputStream.h>
#include <activemq/util/Config.h>
#include <activemq/transport/TransportFilter.h>
#include <decaf/net/Socket.h>
#include <decaf/net/URI.h>
#include <decaf/util/Properties.h>
#include <decaf/lang/Pointer.h>
#include <decaf/io/BufferedInputStream.h>
#include <decaf/io/BufferedOutputStream.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <memory>
```

Data Structures

- class **activemq::transport::tcp::TcpTransport**

*Implements a TCP/IP based **transport** (p. 67) filter, this **transport** (p. 67) is meant to wrap an instance of an **IOTransport** (p. 1480).*

Namespaces

- namespace **activemq**

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- namespace **activemq::transport**
- namespace **activemq::transport::tcp**

7.137 src/main/activemq/transport/tcp/TcpTransportFactory.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/AbstractTransportFactory.h>
#include <activemq/exceptions/ActiveMQException.h>
```

Data Structures

- class **activemq::transport::tcp::TcpTransportFactory**
*Factory Responsible for creating the **TcpTransport** (p. 2532).*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**
- namespace **activemq::transport::tcp**

7.138 src/main/activemq/transport/Transport.h File Reference

```
#include <decaf/io/InputStream.h>
#include <decaf/io/OutputStream.h>
#include <decaf/io/IOException.h>
#include <decaf/net/URI.h>
#include <decaf/lang/Pointer.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/Command.h>
#include <activemq/commands/Response.h>
#include <cms/Startable.h>
#include <cms/Closeable.h>
#include <typeinfo>
```

Data Structures

- class **activemq::transport::Transport**
*Interface for a **transport** (p. 67) layer for command objects.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::wireformat**
- namespace **activemq::transport**

7.139 src/main/activemq/transport/TransportFactory.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/transport/Transport.h>
#include <decaf/net/URI.h>
#include <decaf/util/Properties.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::transport::TransportFactory**
Defines the interface for Factories that create Transports or TransportFilters.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**

7.140 src/main/activemq/transport/TransportFilter.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <activemq/transport/Transport.h>
#include <activemq/commands/Command.h>
#include <activemq/transport/TransportListener.h>
#include <decaf/lang/Pointer.h>
#include <typeinfo>
```

Data Structures

- class **activemq::transport::TransportFilter**
*A filter on the **transport** (p. 67) layer.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**

7.141 src/main/activemq/transport/TransportListener.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/Command.h>
#include <decaf/lang/Exception.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::transport::TransportListener**
*A listener of asynchronous **exceptions** (p. 62) from a command **transport** (p. 67) object.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**

7.142 src/main/activemq/transport/TransportRegistry.h File Reference

```
#include <activemq/util/Config.h>
#include <string>
#include <vector>
#include <activemq/transport/TransportFactory.h>
#include <decaf/util/StlMap.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
```

Data Structures

- class **activemq::transport::TransportRegistry**
*Registry of all **Transport** (p. 2608) Factories that are available to the client at runtime.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::transport**

7.143 src/main/activemq/util/ActiveMQProperties.h File Reference

```
#include <map>
#include <string>
#include <sstream>
#include <activemq/util/Config.h>
#include <cms/CMSProperties.h>
#include <decaf/util/Properties.h>
```

Data Structures

- class **activemq::util::ActiveMQProperties**
Implementation of the `CMSProperties` interface that delegates to a `decaf::util::Properties` (p. 2140) object.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::util**

7.144 src/main/activemq/util/CompositeData.h File Reference

```
#include <activemq/util/Config.h>
#include <decaf/util/Properties.h>
#include <decaf/util/StlList.h>
#include <decaf/net/URI.h>
#include <decaf/net/URISyntaxException.h>
```

Data Structures

- class **activemq::util::CompositeData**
Represents a Composite URI.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::util**

7.145 src/main/activemq/util/Config.h File Reference

Defines

- `#define AMQCPP_API`

7.145.1 Define Documentation

7.145.1.1 `#define AMQCPP_API`

7.146 src/main/cms/Config.h File Reference

Defines

- `#define CMS_API`

7.146.1 Define Documentation

7.146.1.1 `#define CMS_API`

7.147 src/main/decaf/util/Config.h File Reference

Defines

- `#define DECAF_API`
- `#define DECAF_UNUSED`

7.147.1 Define Documentation

7.147.1.1 `#define DECAF_API`

7.147.1.2 `#define DECAF_UNUSED`

7.148 src/main/activemq/util/LongSequenceGenerator.h File Reference

```
#include <activemq/util/Config.h>  
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **activemq::util::LongSequenceGenerator**

This class is used to generate a sequence of long long values that are incremented each time a new value is requested.

Namespaces

- namespace **activemq**

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- namespace **activemq::util**

7.149 src/main/activemq/util/MemoryUsage.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/util/Usage.h>
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **activemq::util::MemoryUsage**

Namespaces

- namespace **activemq**

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- namespace **activemq::util**

7.150 src/main/activemq/util/PrimitiveList.h File Reference

```
#include <string>
#include <vector>
#include <decaf/util/StlList.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <stdio.h>
#include <activemq/util/PrimitiveValueNode.h>
#include <activemq/util/PrimitiveValueConverter.h>
```

Data Structures

- class **activemq::util::PrimitiveList**
List of primitives.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::util**

7.151 src/main/activemq/util/PrimitiveMap.h File Reference

```
#include <string>
#include <vector>
#include <activemq/util/Config.h>
#include <decaf/util/Config.h>
#include <decaf/util/StlMap.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <activemq/util/PrimitiveValueNode.h>
#include <activemq/util/PrimitiveValueConverter.h>
```

Data Structures

- class **activemq::util::PrimitiveMap**
Map of named primitives.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::util**

7.152 src/main/activemq/util/PrimitiveValueConverter.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/util/PrimitiveValueNode.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <string>
```

Data Structures

- class **activemq::util::PrimitiveValueConverter**

*Class controls the conversion of data contained in a **PrimitiveValueNode** (p. 2070) from one type to another.*

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::util**

7.153 src/main/activemq/util/PrimitiveValueNode.h File Reference

```
#include <activemq/util/Config.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/util/Map.h>
#include <decaf/util/List.h>
```

Data Structures

- class **activemq::util::PrimitiveValueNode**
Class that wraps around a single value of one of the many types.
- union **activemq::util::PrimitiveValueNode::PrimitiveValue**
Define a union type comprised of the various types.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::util**

7.154 src/main/activemq/util/URISupport.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/util/CompositeData.h>
#include <decaf/util/Properties.h>
#include <decaf/util/StlList.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
```

Data Structures

- class **activemq::util::URISupport**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::util**

7.155 src/main/activemq/util/Usage.h File Reference

```
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::util::Usage**

Namespaces

- namespace **activemq**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **activemq::util**

7.156 src/main/activemq/wireformat/MarshalAware.h File Reference

```
#include <vector>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::wireformat::MarshalAware**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::wireformat**

7.157 src/main/activemq/wireformat/openwire/marshal/BaseDataStream File Reference

```
#include <activemq/wireformat/openwire/marshal/DataStreamMarshaller.h>
#include <activemq/wireformat/openwire/utils/HexTable.h>
#include <activemq/commands/MessageId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller**
*Base class for all Marshallers that **marshal** (p. 76) DataStructures to and from the wire using the OpenWire protocol.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**

7.158 src/main/activemq/wireformat/openwire/marshal/DataStreamM File Reference

```
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq:wireformat::openwire::marshal::DataStreamMarshaller**
*Base class for all classes that **marshal** (p. 76) **commands** (p. 59) for Openwire.*

Namespaces

- namespace **activemq**
*Licensed to the Apache Software Foundation (ASF) under one or more contributor license agree-
ments.*
- namespace **activemq:wireformat**
- namespace **activemq:wireformat::openwire**
- namespace **activemq:wireformat::openwire::marshal**

7.159 src/main/activemq/wireformat/openwire/marshal/PrimitiveType File Reference

```
#include <cms/CMSException.h>
#include <activemq/util/Config.h>
#include <activemq/util/PrimitiveValueNode.h>
#include <activemq/util/PrimitiveMap.h>
#include <activemq/util/PrimitiveList.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/IOException.h>
#include <string>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller**
*This class wraps the functionality needed to **marshal** (p. 76) a primitive map to the Openwire Format's expectation of what the map looks like on the wire.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**

7.160 src/main/activemq/wireformat/openwire/marsh-
shal/v1/ActiveMQBlobMessageMarshaller.h File

Reference

~~7.160~~ ²⁹¹³ src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQ

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 155).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.161 src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQBlobMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 159).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.162 src/main/activemq/wireformat/openwire/marsh
shal/v3/ActiveMQBlobMessageMarshaller.h File

Reference

7.162 ~~src/main/activemq/wireformat/openwire/marsh~~²⁹¹⁵~~shal/v3/ActiveMQ~~

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQBlobMessageMarshaller** (p. 151).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.163 src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQBytesMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 182).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.164 src/main/activemq/wireformat/openwire/marsh
shal/v2/ActiveMQBytesMessageMarshaller.h File

Reference

7.164 ~~src/main/activemq/wireformat/openwire/marsh~~²⁹¹⁷/v2/ActiveMQ

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 186).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.165 src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQBytesMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQBytesMessageMarshaller** (p. 178).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.166 src/main/activemq/wireformat/openwire/marsh
shal/v1/ActiveMQDestinationMarshaller.h File

Reference

7.166 ²⁹¹⁹src/main/activemq/wireformat/openwire/marsh/v1/ActiveMQ

File Reference

```
#include <activemq/wireformat/openwire/marshall/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 244).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.167 src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQDestinationMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 248).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.168 src/main/activemq/wireformat/openwire/marsh
shal/v3/ActiveMQDestinationMarshaller.h File

Reference

7.168 ²⁹²¹src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQ
File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQDestinationMarshaller** (p. 240).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.169 src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQMapMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 271).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.170 src/main/activemq/wireformat/openwire/marsh
shal/v2/ActiveMQMapMessageMarshaller.h File

Reference

~~7.170~~ ²⁹²³src/main/activemq/wireformat/openwire/marsh/v2/ActiveMQ

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 275).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.171 src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQMapMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQMapMessageMarshaller** (p. 267).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.172 src/main/activemq/wireformat/openwire/marsh
shal/v1/ActiveMQMessageMarshaller.h File

Reference

7.172 ²⁹²⁵src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQ
File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 286).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.173 src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 290).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.174 src/main/activemq/wireformat/openwire/marsh-
shal/v3/ActiveMQMessageMarshaller.h File

Reference

~~7.174~~ src/main/activemq/wireformat/openwire/marsh²⁹²⁷/v3/ActiveMQ

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQMessageMarshaller** (p. 282).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.175 src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQObjectMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 317).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.176 src/main/activemq/wireformat/openwire/marsh
shal/v2/ActiveMQObjectMessageMarshaller.h File

Reference

7.176 ²⁹²⁹src/main/activemq/wireformat/openwire/marsh/v2/ActiveMQO

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 321).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.177 src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQObjectMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQObjectMessageMarshaller** (p. 313).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.178

src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQQueueMarshaller.h

File Reference

7.178 ²⁹³¹ src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQQueueMarshaller.h

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 345).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.179 src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQQueueMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 349).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.180

src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQQueueMarshaller.h

File Reference

7.180 ²⁹³³src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQQueueMarshaller.h

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQQueueMarshaller** (p. 341).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.181 src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQStreamMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 391).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.182 src/main/activemq/wireformat/openwire/marsh
shal/v2/ActiveMQStreamMessageMarshaller.h File

Reference

7.182 ²⁹³⁵src/main/activemq/wireformat/openwire/marsh/v2/ActiveMQS

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 395).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.183 src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQStreamMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQStreamMessageMarshaller** (p. 387).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.184 src/main/activemq/wireformat/openwire/marsh
shal/v1/ActiveMQTempDestinationMarshaller.h File

Reference

7.184 ~~src/main/activemq/wireformat/openwire/marsh~~²⁹³⁷~~al/v1/ActiveMQ~~

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller**
(p. 407).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.185 src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempDestinationMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 411).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.186 src/main/activemq/wireformat/openwire/marsh
shal/v3/ActiveMQTempDestinationMarshaller.h File

Reference

7.186 ²⁹³⁹src/main/activemq/wireformat/openwire/marsh/v3/ActiveMQTempDestinationMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempDestinationMarshaller** (p. 403).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.187 src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTempQueueMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ActiveMQTempDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 424).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.188 src/main/activemq/wireformat/openwire/marsh
shal/v2/ActiveMQTempQueueMarshaller.h File

Reference

7.188 ²⁹⁴¹src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempQueueMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ActiveMQTempDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 428).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.189 src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTempQueueMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ActiveMQTempDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempQueueMarshaller** (p. 420).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.190 src/main/activemq/wireformat/openwire/marsh
shal/v1/ActiveMQTempTopicMarshaller.h File

Reference

7.190 ²⁹⁴³src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQ

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ActiveMQTempDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 441).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.191 src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTempTopicMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ActiveMQTempDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 445).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.192 src/main/activemq/wireformat/openwire/marsh
shal/v3/ActiveMQTempTopicMarshaller.h File

Reference

7.192 ²⁹⁴⁵src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQ
File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ActiveMQTempDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTempTopicMarshaller** (p. 437).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.193 src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTextMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 457).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.194 src/main/activemq/wireformat/openwire/marsh
shal/v2/ActiveMQTextMessageMarshaller.h File

Reference

7.194 ~~src/main/activemq/wireformat/openwire/marsh~~²⁹⁴⁷/ActiveMQ

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 461).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.195 src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTextMessageMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/MessageMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller**

*Marshaling code for Open Wire Format for **ActiveMQTextMessageMarshaller** (p. 453).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.196

src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTopicMarshaller.h

File Reference

7.196 ²⁹⁴⁹ src/main/activemq/wireformat/openwire/marshal/v1/ActiveMQTopicMarshaller.h

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 473).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.197 src/main/activemq/wireformat/openwire/marshal/v2/ActiveMQTopicMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 477).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.198

src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTopicMarshaller.h

File Reference

7.198 ²⁹⁵¹src/main/activemq/wireformat/openwire/marshal/v3/ActiveMQTopicMarshaller.h

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ActiveMQDestinationMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller**
*Marshaling code for Open Wire Format for **ActiveMQTopicMarshaller** (p. 469).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.199 src/main/activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller**
*Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 521).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.200

src/main/activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h

File Reference

7.200 src/main/activemq/wireformat/openwire/marshal/v2/BaseComm²⁹⁵³

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller**
*Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 528).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.201 src/main/activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller**
*Marshaling code for Open Wire Format for **BaseCommandMarshaller** (p. 514).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.202 src/main/activemq/wireformat/openwire/marshal/v1/BrokerIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller**
*Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 599).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.203 src/main/activemq/wireformat/openwire/marshal/v2/BrokerIdM File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller**
*Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 603).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.204 src/main/activemq/wireformat/openwire/marshal/v3/BrokerIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller**
*Marshaling code for Open Wire Format for **BrokerIdMarshaller** (p. 595).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.205 src/main/activemq/wireformat/openwire/marshal/v1/BrokerInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller**
*Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 619).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.206 src/main/activemq/wireformat/openwire/marshal/v2/BrokerInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller**
*Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 623).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.207 src/main/activemq/wireformat/openwire/marshal/v3/BrokerInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller**
*Marshaling code for Open Wire Format for **BrokerInfoMarshaller** (p. 615).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.208 src/main/activemq/wireformat/openwire/marsh
shal/v1/ConnectionControlMarshaller.h File

Reference

7.208 src/main/activemq/wireformat/openwire/marsh²⁹⁶¹al/v1/Connection
File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller**

*Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 954).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.209 src/main/activemq/wireformat/openwire/marshal/v2/ConnectionControlMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller**

*Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 958).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.210 src/main/activemq/wireformat/openwire/marsh
shal/v3/ConnectionControlMarshaller.h File

Reference

7.210 ²⁹⁶³src/main/activemq/wireformat/openwire/marsh/v3/Connection
File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller**

*Marshaling code for Open Wire Format for **ConnectionControlMarshaller** (p. 950).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.211 src/main/activemq/wireformat/openwire/marshal/v1/ConnectionErrorMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller**
*Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p. 970).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.212

src/main/activemq/wireformat/openwire/marshal/v2/ConnectionErrorMarshaller.h

File Reference

7.212²⁹⁶⁵ src/main/activemq/wireformat/openwire/marshal/v2/ConnectionErrorMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller**
*Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p. 974).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.213 src/main/activemq/wireformat/openwire/marshal/v3/ConnectionErrorMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller**
*Marshaling code for Open Wire Format for **ConnectionErrorMarshaller** (p. 966).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.214

src/main/activemq/wireformat/openwire/marshal/v1/ConnectionIdMarshaller.h

File Reference

7.214 src/main/activemq/wireformat/openwire/marshal/v1/Connection²⁹⁶⁷

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller**
*Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 989).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.215 src/main/activemq/wireformat/openwire/marshal/v2/ConnectionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller**
*Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 993).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.216

src/main/activemq/wireformat/openwire/marshal/v3/ConnectionIdMarshaller.h

File Reference

7.216 ²⁹⁶⁹src/main/activemq/wireformat/openwire/marshal/v3/Connection

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller**
*Marshaling code for Open Wire Format for **ConnectionIdMarshaller** (p. 985).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.217 src/main/activemq/wireformat/openwire/marshal/v1/ConnectionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller**
*Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1007).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.218

src/main/activemq/wireformat/openwire/marshal/v2/ConnectionInfoMarshaller.h

File Reference

7.218 ²⁹⁷¹src/main/activemq/wireformat/openwire/marshal/v2/Connection

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller**
*Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1011).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.219 src/main/activemq/wireformat/openwire/marshal/v3/ConnectionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller**
*Marshaling code for Open Wire Format for **ConnectionInfoMarshaller** (p. 1003).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.220 src/main/activemq/wireformat/openwire/marsh-
shal/v1/ConsumerControlMarshaller.h File

Reference

7.220 ²⁹⁷³src/main/activemq/wireformat/openwire/marshal/v1/ConsumerC
File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller**

*Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p. 1037).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.221 src/main/activemq/wireformat/openwire/marshal/v2/ConsumerControlMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller**

*Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p. 1041).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.222 src/main/activemq/wireformat/openwire/marsh
shal/v3/ConsumerControlMarshaller.h File

Reference

7.222 src/main/activemq/wireformat/openwire/marsh²⁹⁷⁵
shal/v3/ConsumerC

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller**

*Marshaling code for Open Wire Format for **ConsumerControlMarshaller** (p. 1033).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.223 src/main/activemq/wireformat/openwire/marshal/v1/ConsumerIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller**
*Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p. 1054).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.224

src/main/activemq/wireformat/openwire/marshal/v2/ConsumerIdMarshaller.h File

Reference

7.224²⁹⁷⁷ src/main/activemq/wireformat/openwire/marshal/v2/ConsumerIdMarshaller.h

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller**
*Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p. 1058).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.225 src/main/activemq/wireformat/openwire/marshal/v3/ConsumerIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller**
*Marshaling code for Open Wire Format for **ConsumerIdMarshaller** (p. 1050).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.226

src/main/activemq/wireformat/openwire/marshal/v1/ConsumerInfoMarshaller.h

File Reference

7.226 src/main/activemq/wireformat/openwire/marshal/v1/ConsumerI²⁹⁷⁹

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller**
*Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1074).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.227 src/main/activemq/wireformat/openwire/marshal/v2/ConsumerInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller**
*Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1078).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.228

src/main/activemq/wireformat/openwire/marshal/v3/ConsumerInfoMarshaller.h

File Reference

7.228 src/main/activemq/wireformat/openwire/marshal/v3/ConsumerInfoMarshaller.h²⁹⁸¹

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller**
*Marshaling code for Open Wire Format for **ConsumerInfoMarshaller** (p. 1070).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.229 src/main/activemq/wireformat/openwire/marshal/v1/ControlCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller**

*Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1087).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.230 src/main/activemq/wireformat/openwire/marsh
shal/v2/ControlCommandMarshaller.h File

Reference

7.230²⁹⁸³src/main/activemq/wireformat/openwire/marshal/v2/ControlCo
File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller**

*Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1095).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.231 src/main/activemq/wireformat/openwire/marshal/v3/ControlCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller**

*Marshaling code for Open Wire Format for **ControlCommandMarshaller** (p. 1091).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.232 src/main/activemq/wireformat/openwire/marsh
shal/v1/DataArrayResponseMarshaller.h File

Reference

7.232 ²⁹⁸⁵src/main/activemq/wireformat/openwire/marsh/v1/DataArray
File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller**

*Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1108).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.233 src/main/activemq/wireformat/openwire/marshal/v2/DataArray File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller**

*Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1112).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.234 src/main/activemq/wireformat/openwire/marsh
shal/v3/DataArrayResponseMarshaller.h File

Reference

7.234 ~~src/main/activemq/wireformat/openwire/marsh~~²⁹⁸⁷/v3/DataArray
File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller**

*Marshaling code for Open Wire Format for **DataArrayResponseMarshaller** (p. 1104).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.235 src/main/activemq/wireformat/openwire/marshal/v1/DataResponseMarshall.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller**
*Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1139).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.236

src/main/activemq/wireformat/openwire/marshal/v2/DataResponseMarshaller.h

File Reference

7.236 ²⁹⁸⁹ src/main/activemq/wireformat/openwire/marshal/v2/DataResponse

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller**
*Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1143).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.237 src/main/activemq/wireformat/openwire/marshal/v3/DataResponseMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller**
*Marshaling code for Open Wire Format for **DataResponseMarshaller** (p. 1135).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.238

src/main/activemq/wireformat/openwire/marshal/v1/DestinationInfoMarshaller.h

File Reference

7.238 ²⁹⁹¹ src/main/activemq/wireformat/openwire/marshal/v1/DestinationInfoMarshaller.h
File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller**
*Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1203).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.239 src/main/activemq/wireformat/openwire/marshal/v2/DestinationInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller**
*Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1207).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.240

src/main/activemq/wireformat/openwire/marshal/v3/DestinationInfoMarshaller.h

File Reference

7.240²⁹⁹³ src/main/activemq/wireformat/openwire/marshal/v3/DestinationInfoMarshaller.h
File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller**
*Marshaling code for Open Wire Format for **DestinationInfoMarshaller** (p. 1199).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.241 src/main/activemq/wireformat/openwire/marshal/v1/DiscoveryEventMarshall.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller**
*Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1221).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.242

src/main/activemq/wireformat/openwire/marshal/v2/DiscoveryEventMarshaller.h

File Reference

7.242 src/main/activemq/wireformat/openwire/marshal/v2/DiscoveryE²⁹⁹⁵

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller**
*Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1225).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.243 src/main/activemq/wireformat/openwire/marshal/v3/DiscoveryEventMarshall.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller**
*Marshaling code for Open Wire Format for **DiscoveryEventMarshaller** (p. 1217).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.244 src/main/activemq/wireformat/openwire/marsh
shal/v1/ExceptionResponseMarshaller.h File

Reference

7.244 src/main/activemq/wireformat/openwire/marsh²⁹⁹⁷
shal/v1/ExceptionResponseMarshaller.h File

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller**

*Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1283).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.245 src/main/activemq/wireformat/openwire/marshal/v2/ExceptionResponseMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller**

*Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1287).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.246 src/main/activemq/wireformat/openwire/marsh
shal/v3/ExceptionResponseMarshaller.h File

Reference

7.246 ~~src/main/activemq/wireformat/openwire/marsh~~²⁹⁹⁹/v3/ExceptionR
File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller**

*Marshaling code for Open Wire Format for **ExceptionResponseMarshaller** (p. 1279).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.247 src/main/activemq/wireformat/openwire/marshal/v1/FlushCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller**
*Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p. 1360).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.248

src/main/activemq/wireformat/openwire/marshal/v2/FlushCommandMarshaller.h

File Reference

7.248 src/main/activemq/wireformat/openwire/marshal/v2/FlushCom³⁰⁰¹

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller**
*Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p. 1368).*

Namespaces

- namespace **activemq**
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ments.
- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.249 src/main/activemq/wireformat/openwire/marshal/v3/FlushCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller**
*Marshaling code for Open Wire Format for **FlushCommandMarshaller** (p. 1364).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.250

src/main/activemq/wireformat/openwire/marshal/v1/IntegerResponseMarshaller.h

File Reference

7.250 src/main/activemq/wireformat/openwire/marshal/v1/IntegerRes³⁰⁰³

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller**
*Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p. 1449).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.251 src/main/activemq/wireformat/openwire/marshal/v2/IntegerRes File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller**
*Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p. 1445).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.252

src/main/activemq/wireformat/openwire/marshal/v3/IntegerResponseMarshaller.h

File Reference

7.252 src/main/activemq/wireformat/openwire/marshal/v3/IntegerRes³⁰⁰⁵

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/ResponseMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller**
*Marshaling code for Open Wire Format for **IntegerResponseMarshaller** (p. 1453).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.253 src/main/activemq/wireformat/openwire/marshal/v1/JournalQueueAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller**

*Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p. 1499).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.254 src/main/activemq/wireformat/openwire/marsh
shal/v2/JournalQueueAckMarshaller.h File

Reference

7.254 ~~src/main/activemq/wireformat/openwire/marsh~~³⁰⁰⁷/JournalQueueAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshall/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller**

*Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p. 1495).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.255 src/main/activemq/wireformat/openwire/marshal/v3/JournalQueueAckMarshaller File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller**

*Marshaling code for Open Wire Format for **JournalQueueAckMarshaller** (p. 1503).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.256 src/main/activemq/wireformat/openwire/marsh
shal/v1/JournalTopicAckMarshaller.h File

Reference

7.256 ³⁰⁰⁹src/main/activemq/wireformat/openwire/marshal/v1/JournalTopicAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller**
*Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p. 1520).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.257 src/main/activemq/wireformat/openwire/marshal/v2/JournalTopicAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller**
*Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p. 1512).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.258 src/main/activemq/wireformat/openwire/marsh-
shal/v3/JournalTopicAckMarshaller.h File

Reference

7.258 ³⁰¹¹src/main/activemq/wireformat/openwire/marshal/v3/JournalTopicAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller**
*Marshaling code for Open Wire Format for **JournalTopicAckMarshaller** (p. 1516).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.259 src/main/activemq/wireformat/openwire/marshal/v1/JournalTrace File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller**
*Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1535).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.260

src/main/activemq/wireformat/openwire/marshal/v2/JournalTraceMarshaller.h

File Reference

7.260 src/main/activemq/wireformat/openwire/marshal/v2/JournalTra³⁰¹³

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller**
*Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1527).*

Namespaces

- namespace **activemq**
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ments.
- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.261 src/main/activemq/wireformat/openwire/marshal/v3/JournalTraceMarshall.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller**
*Marshaling code for Open Wire Format for **JournalTraceMarshaller** (p. 1531).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.262 src/main/activemq/wireformat/openwire/marsh
shal/v1/JournalTransactionMarshaller.h File

Reference

7.262 ³⁰¹⁵src/main/activemq/wireformat/openwire/marshal/v1/JournalTra
File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller**

*Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p. 1551).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.263 src/main/activemq/wireformat/openwire/marshal/v2/JournalTransactionMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller**

*Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p. 1543).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.264 src/main/activemq/wireformat/openwire/marsh
shal/v3/JournalTransactionMarshaller.h File

Reference

7.264 ~~src/main/activemq/wireformat/openwire/marsh~~³⁰¹⁷/v3/JournalTra
File Reference

```
#include <activemq/wireformat/openwire/marshall/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller**

*Marshaling code for Open Wire Format for **JournalTransactionMarshaller** (p. 1547).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.265 src/main/activemq/wireformat/openwire/marshal/v1/KeepAliveInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller**
*Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1566).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.266

src/main/activemq/wireformat/openwire/marshal/v2/KeepAliveInfoMarshaller.h

File Reference

7.266 src/main/activemq/wireformat/openwire/marshal/v2/KeepAliveInfoMarshaller.h 3019

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller**
*Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1562).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.267 src/main/activemq/wireformat/openwire/marshal/v3/KeepAliveInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller**
*Marshaling code for Open Wire Format for **KeepAliveInfoMarshaller** (p. 1558).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.268 src/main/activemq/wireformat/openwire/marsh
shal/v1/LastPartialCommandMarshaller.h File

Reference

7.268 src/main/activemq/wireformat/openwire/marshal/v1/LastPartial

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/PartialCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller**

*Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1582).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.269 src/main/activemq/wireformat/openwire/marshal/v2/LastPartialCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/PartialCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller**

*Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1586).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.270 src/main/activemq/wireformat/openwire/marsh
shal/v3/LastPartialCommandMarshaller.h File

Reference

7.270 ³⁰²³src/main/activemq/wireformat/openwire/marshal/v3/LastPartial

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/PartialCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller**

*Marshaling code for Open Wire Format for **LastPartialCommandMarshaller** (p. 1578).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.271 src/main/activemq/wireformat/openwire/marshal/v1/LocalTransactionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/TransactionIdMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller**

*Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p. 1612).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.272 src/main/activemq/wireformat/openwire/marsh
shal/v2/LocalTransactionIdMarshaller.h File

Reference

7.272 ³⁰²⁵src/main/activemq/wireformat/openwire/marshal/v2/LocalTrans
File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/TransactionIdMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller**

*Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p. 1604).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.273 src/main/activemq/wireformat/openwire/marshal/v3/LocalTransactionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/TransactionIdMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller**

*Marshaling code for Open Wire Format for **LocalTransactionIdMarshaller** (p. 1608).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.274 src/main/activemq/wireformat/openwire/marshal/v1/MarshallerFactory.h File Reference

```
#include <activemq/wireformat/openwire/OpenWireFormat.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::MarshallerFactory**
Used to create marshallers for a specific version of the wire protocol.

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.275 src/main/activemq/wireformat/openwire/marshal/v2/Marshaller File Reference

```
#include <activemq/wireformat/openwire/OpenWireFormat.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::MarshallerFactory**

Used to create marshallers for a specific version of the wire protocol.

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.276 src/main/activemq/wireformat/openwire/marshal/v3/MarshallerFactory.h File Reference

```
#include <activemq/wireformat/openwire/OpenWireFormat.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::MarshallerFactory**
Used to create marshallers for a specific version of the wire protocol.

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.277 src/main/activemq/wireformat/openwire/marshal/v1/MessageAck File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller**
*Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1791).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.278

src/main/activemq/wireformat/openwire/marshal/v2/MessageAckMarshaller.h File

Reference

7.278 ³⁰³¹src/main/activemq/wireformat/openwire/marshal/v2/MessageAck

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller**
*Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1783).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.279 src/main/activemq/wireformat/openwire/marshal/v3/MessageAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller**
*Marshaling code for Open Wire Format for **MessageAckMarshaller** (p. 1787).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.280 src/main/activemq/wireformat/openwire/marsh-
shal/v1/MessageDispatchMarshaller.h File

Reference

7.280 ³⁰³³src/main/activemq/wireformat/openwire/marshal/v1/MessageDi
File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller**

*Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1819).*

Namespaces

- namespace **activemq**

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ments.*

- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.281 src/main/activemq/wireformat/openwire/marshal/v2/MessageDispatchMarshall.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller**

*Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1811).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.282 src/main/activemq/wireformat/openwire/marsh
shal/v3/MessageDispatchMarshaller.h File

Reference

7.282 ³⁰³⁵src/main/activemq/wireformat/openwire/marshal/v3/MessageDi
File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller**

*Marshaling code for Open Wire Format for **MessageDispatchMarshaller** (p. 1815).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.283 src/main/activemq/wireformat/openwire/marshal/v1/MessageDispatchNotificationMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller**

Marshaling code for Open Wire Format for MessageDispatchNotificationMarshaller (p. 1833).

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.284 src/main/activemq/wireformat/openwire/mar-
shal/v2/MessageDispatchNotificationMarshaller.h File

Reference

7.284 ~~src/main/activemq/wireformat/openwire/marsh~~³⁰³⁷/v2/MessageDi

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller**

*Marshaling code for Open Wire Format for **MessageDispatchNotificationMarshaller**
(p. 1829).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.285 src/main/activemq/wireformat/openwire/marshal/v3/MessageDispatchNotificationMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller**

Marshaling code for Open Wire Format for MessageDispatchNotificationMarshaller (p. 1837).

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.286 src/main/activemq/wireformat/openwire/marshal/v1/MessageIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller**
*Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1848).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.287 src/main/activemq/wireformat/openwire/marshal/v2/MessageId. File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller**
*Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1856).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.288 src/main/activemq/wireformat/openwire/marshal/v3/MessageIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller**
*Marshaling code for Open Wire Format for **MessageIdMarshaller** (p. 1852).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.289 src/main/activemq/wireformat/openwire/marshal/v1/MessageM File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::MessageMarshaller**
*Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1871).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.290 src/main/activemq/wireformat/openwire/marshal/v2/MessageM File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::MessageMarshaller**
*Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1861).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.291 src/main/activemq/wireformat/openwire/marshal/v3/MessageM File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::MessageMarshaller**
*Marshaling code for Open Wire Format for **MessageMarshaller** (p. 1866).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.292

src/main/activemq/wireformat/openwire/marshal/v1/MessagePullMarshaller.h

File Reference

7.292 src/main/activemq/wireformat/openwire/marshal/v1/MessagePu³⁰⁴⁵

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller**
*Marshaling code for Open Wire Format for **MessagePullMarshaller** (p. 1906).*

Namespaces

- namespace **activemq**
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ments.
- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.293 src/main/activemq/wireformat/openwire/marshal/v2/MessagePullMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller**
*Marshaling code for Open Wire Format for **MessagePullMarshaller** (p. 1898).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.294

src/main/activemq/wireformat/openwire/marshal/v3/MessagePullMarshaller.h

File Reference

7.294 ³⁰⁴⁷src/main/activemq/wireformat/openwire/marshal/v3/MessagePu

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller**
*Marshaling code for Open Wire Format for **MessagePullMarshaller** (p. 1902).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.295 src/main/activemq/wireformat/openwire/marshal/v1/NetworkBridgeFilterMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller**

*Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1935).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.296 src/main/activemq/wireformat/openwire/marsh
shal/v2/NetworkBridgeFilterMarshaller.h File

Reference

7.296 src/main/activemq/wireformat/openwire/marsh³⁰⁴⁹/v2/NetworkBr

File Reference

```
#include <activemq/wireformat/openwire/marshall/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller**

*Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1931).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.297 src/main/activemq/wireformat/openwire/marshal/v3/NetworkBridgeFilterMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller**

*Marshaling code for Open Wire Format for **NetworkBridgeFilterMarshaller** (p. 1927).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.298 src/main/activemq/wireformat/openwire/marsh
shal/v1/PartialCommandMarshaller.h File

Reference

7.298 ³⁰⁵¹src/main/activemq/wireformat/openwire/marshal/v1/PartialCon
File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller**

*Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2007).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.299 src/main/activemq/wireformat/openwire/marshal/v2/PartialCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller**

*Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 1999).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.300 src/main/activemq/wireformat/openwire/marsh-
shal/v3/PartialCommandMarshaller.h File

Reference

~~7.300~~ ³⁰⁵³ src/main/activemq/wireformat/openwire/marshal/v3/PartialCon
File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller**

*Marshaling code for Open Wire Format for **PartialCommandMarshaller** (p. 2003).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.301 src/main/activemq/wireformat/openwire/marshal/v1/ProducerAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller**
*Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2094).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.302

src/main/activemq/wireformat/openwire/marshal/v2/ProducerAckMarshaller.h

File Reference

7.302 ³⁰⁵⁵src/main/activemq/wireformat/openwire/marshal/v2/ProducerA

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller**
*Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2098).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.303 src/main/activemq/wireformat/openwire/marshal/v3/ProducerAckMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller**
*Marshaling code for Open Wire Format for **ProducerAckMarshaller** (p. 2090).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.304

src/main/activemq/wireformat/openwire/marshal/v1/ProducerIdMarshaller.h File

Reference

7.304 ³⁰⁵⁷src/main/activemq/wireformat/openwire/marshal/v1/ProducerId

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller**
*Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2118).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.305 src/main/activemq/wireformat/openwire/marshal/v2/ProducerId File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller**
*Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2110).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.306

src/main/activemq/wireformat/openwire/marshal/v3/ProducerIdMarshaller.h File

Reference

7.306 src/main/activemq/wireformat/openwire/marshal/v3/ProducerId

3059

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller**
*Marshaling code for Open Wire Format for **ProducerIdMarshaller** (p. 2114).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.307 src/main/activemq/wireformat/openwire/marshal/v1/ProducerInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller**
*Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2135).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.308

src/main/activemq/wireformat/openwire/marshal/v2/ProducerInfoMarshaller.h

File Reference

7.308 src/main/activemq/wireformat/openwire/marshal/v2/ProducerInfoMarshaller.h 3061

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller**
*Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2127).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.309 src/main/activemq/wireformat/openwire/marshal/v3/ProducerInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller**
*Marshaling code for Open Wire Format for **ProducerInfoMarshaller** (p. 2131).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.310

src/main/activemq/wireformat/openwire/marshal/v1/RemoveInfoMarshaller.h File

Reference

7.310 ³⁰⁶³src/main/activemq/wireformat/openwire/marshal/v1/RemoveInfo

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller**
*Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2185).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.311 src/main/activemq/wireformat/openwire/marshal/v2/RemoveInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller**
*Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2181).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.312

src/main/activemq/wireformat/openwire/marshal/v3/RemoveInfoMarshaller.h File
Reference

7.312 src/main/activemq/wireformat/openwire/marshal/v3/RemoveInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller**
*Marshaling code for Open Wire Format for **RemoveInfoMarshaller** (p. 2189).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.313 src/main/activemq/wireformat/openwire/marshal/v1/RemoveSubscriptionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2206).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.314 src/main/activemq/wireformat/openwire/marsh
shal/v2/RemoveSubscriptionInfoMarshaller.h File

Reference

7.314 ~~src/main/activemq/wireformat/openwire/marsh~~³⁰⁶⁷/v2/RemoveSubscriptionInfoMarshaller.h File

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2198).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.315 src/main/activemq/wireformat/openwire/marshal/v3/RemoveSubscriptionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller**

*Marshaling code for Open Wire Format for **RemoveSubscriptionInfoMarshaller** (p. 2202).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.316 src/main/activemq/wireformat/openwire/marsh
shal/v1/ReplayCommandMarshaller.h File

Reference

7.316 ³⁰⁶⁹src/main/activemq/wireformat/openwire/marshal/v1/ReplayCom
File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller**

*Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2222).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.317 src/main/activemq/wireformat/openwire/marshal/v2/ReplayCommandMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller**

*Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2214).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.318 src/main/activemq/wireformat/openwire/mar-
shal/v3/ReplayCommandMarshaller.h File

Reference

7.318 ~~src/main/activemq/wireformat/openwire/marsh~~³⁰⁷¹/v3/ReplayCom

File Reference

```
#include <activemq/wireformat/openwire/marshall/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller**

*Marshaling code for Open Wire Format for **ReplayCommandMarshaller** (p. 2218).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.319 src/main/activemq/wireformat/openwire/marshal/v1/ResponseM File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ResponseMarshaller**
*Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2251).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.320 src/main/activemq/wireformat/openwire/marshal/v2/ResponseMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ResponseMarshaller**
*Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2241).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.321 src/main/activemq/wireformat/openwire/marshal/v3/ResponseM File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ResponseMarshaller**
*Marshaling code for Open Wire Format for **ResponseMarshaller** (p. 2246).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.322 src/main/activemq/wireformat/openwire/marshal/v1/SessionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller**
*Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2288).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.323 src/main/activemq/wireformat/openwire/marshal/v2/SessionIdM File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller**
*Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2296).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.324 src/main/activemq/wireformat/openwire/marshal/v3/SessionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller**
*Marshaling code for Open Wire Format for **SessionIdMarshaller** (p. 2292).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.325 src/main/activemq/wireformat/openwire/marshal/v1/SessionInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller**
*Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2304).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.326

src/main/activemq/wireformat/openwire/marshal/v2/SessionInfoMarshaller.h File

Reference

7.326 ³⁰⁷⁹src/main/activemq/wireformat/openwire/marshal/v2/SessionInfo

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller**
*Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2308).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.327 src/main/activemq/wireformat/openwire/marshal/v3/SessionInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller**
*Marshaling code for Open Wire Format for **SessionInfoMarshaller** (p. 2312).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.328

src/main/activemq/wireformat/openwire/marshal/v1/ShutdownInfoMarshaller.h

File Reference

7.328 src/main/activemq/wireformat/openwire/marshal/v1/ShutdownI³⁰⁸¹

File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller**
*Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2356).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.329 src/main/activemq/wireformat/openwire/marshal/v2/ShutdownInfo File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller**
*Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2352).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.330

src/main/activemq/wireformat/openwire/marshal/v3/ShutdownInfoMarshaller.h

File Reference

~~7.330~~ ³⁰⁸³ src/main/activemq/wireformat/openwire/marshal/v3/ShutdownI

File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller**
*Marshaling code for Open Wire Format for **ShutdownInfoMarshaller** (p. 2360).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.331 src/main/activemq/wireformat/openwire/marshal/v1/SubscriptionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller**
*Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2496).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.332

src/main/activemq/wireformat/openwire/marshal/v2/SubscriptionInfoMarshaller.h

File Reference

7.332 src/main/activemq/wireformat/openwire/marshal/v2/SubscriptionInfoMarshaller.h 3085

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller**
*Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2504).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.333 src/main/activemq/wireformat/openwire/marshal/v3/SubscriptionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller**
*Marshaling code for Open Wire Format for **SubscriptionInfoMarshaller** (p. 2500).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.334

src/main/activemq/wireformat/openwire/marshal/v1/TransactionIdMarshaller.h

File Reference

7.334 src/main/activemq/wireformat/openwire/marshal/v1/TransactionIdMarshaller.h 3087

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller**
*Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2577).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.335 src/main/activemq/wireformat/openwire/marshal/v2/TransactionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller**
*Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2585).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.336

src/main/activemq/wireformat/openwire/marshal/v3/TransactionIdMarshaller.h

File Reference

7.336 ³⁰⁸⁹src/main/activemq/wireformat/openwire/marshal/v3/Transaction

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller**
*Marshaling code for Open Wire Format for **TransactionIdMarshaller** (p. 2581).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.337 src/main/activemq/wireformat/openwire/marshal/v1/TransactionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller**
*Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2602).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.338

src/main/activemq/wireformat/openwire/marshal/v2/TransactionInfoMarshaller.h

File Reference

7.338 src/main/activemq/wireformat/openwire/marshal/v2/TransactionInfoMarshaller.h 3091

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller**
*Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2594).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.339 src/main/activemq/wireformat/openwire/marshal/v3/TransactionInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/BaseCommandMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller**
*Marshaling code for Open Wire Format for **TransactionInfoMarshaller** (p. 2598).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.340

src/main/activemq/wireformat/openwire/marshal/v1/WireFormatInfoMarshaller.h

File Reference

7.340 src/main/activemq/wireformat/openwire/marshal/v1/WireFormatInfoMarshaller.h 3093

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller**
*Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2717).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.341 src/main/activemq/wireformat/openwire/marshal/v2/WireFormatInfoMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller**
*Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2713).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.342

src/main/activemq/wireformat/openwire/marshal/v3/WireFormatInfoMarshaller.h

File Reference

7.342 src/main/activemq/wireformat/openwire/marshal/v3/WireFormatInfoMarshaller.h 3095

File Reference

```
#include <activemq/wireformat/openwire/marshal/BaseDataStreamMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller**
*Marshaling code for Open Wire Format for **WireFormatInfoMarshaller** (p. 2709).*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.343 src/main/activemq/wireformat/openwire/marshal/v1/XATransactionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v1/TransactionIdMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller**

*Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2736).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v1**

7.344 src/main/activemq/wireformat/openwire/marsh-
shal/v2/XATransactionIdMarshaller.h File

Reference

7.344 ~~src/main/activemq/wireformat/openwire/marsh~~³⁰⁹⁷/v2/XATransac

File Reference

```
#include <activemq/wireformat/openwire/marshal/v2/TransactionIdMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller**

*Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2744).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v2**

7.345 src/main/activemq/wireformat/openwire/marshal/v3/XATransactionIdMarshaller.h File Reference

```
#include <activemq/wireformat/openwire/marshal/v3/TransactionIdMarshaller.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <activemq/util/Config.h>
#include <activemq/commands/DataStructure.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/openwire/Utils/BooleanStream.h>
```

Data Structures

- class **activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller**

*Marshaling code for Open Wire Format for **XATransactionIdMarshaller** (p. 2740).*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**
- namespace **activemq::wireformat::openwire::marshal::v3**

7.346 src/main/activemq/wireformat/openwire/OpenWireFormat.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/WireFormatInfo.h>
#include <activemq/commands/DataSetStructure.h>
#include <activemq/wireformat/WireFormat.h>
#include <activemq/wireformat/openwire/utils/BooleanStream.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/Properties.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <memory>
```

Data Structures

- class **activemq::wireformat::openwire::OpenWireFormat**

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::marshal**

7.347 src/main/activemq/wireformat/openwire/OpenWireFormatFactory File Reference

```
#include <activemq/util/Config.h>
#include <activemq/wireformat/WireFormatFactory.h>
#include <activemq/commands/WireFormatInfo.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
#include <decaf/lang/Pointer.h>
#include <decaf/util/Properties.h>
```

Data Structures

- class **activemq::wireformat::openwire::OpenWireFormatFactory**

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**

7.348 src/main/activemq/wireformat/openwire/OpenWireFormatNegotiator.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/TransportFilter.h>
#include <activemq/wireformat/openwire/OpenWireFormat.h>
#include <activemq/wireformat/WireFormatNegotiator.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/concurrent/CountDownLatch.h>
#include <decaf/util/concurrent/Concurrent.h>
#include <decaf/util/concurrent/atomic/AtomicBoolean.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq:wireformat::openwire::OpenWireFormatNegotiator**

Namespaces

- namespace **activemq**

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- namespace **activemq:wireformat**
- namespace **activemq:wireformat::openwire**

7.349 src/main/activemq/wireformat/openwire/OpenWireResponseBuilder.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/mock/ResponseBuilder.h>
#include <decaf/util/StlQueue.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::wireformat::openwire::OpenWireResponseBuilder**

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**

7.350 src/main/activemq/wireformat/openwire/Utils/BooleanStream.h File Reference

```
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <activemq/Util/Config.h>
```

Data Structures

- class **activemq:wireformat:openwire:Utils:BooleanStream**

Manages the writing and reading of boolean data streams to and from a data source such as a `DataInputStream` or `DataOutputStream`.

Namespaces

- namespace **activemq**

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- namespace **activemq:wireformat**
- namespace **activemq:wireformat:openwire**
- namespace **activemq:wireformat:openwire:Utils**

7.351 src/main/activemq/wireformat/openwire/Utils/HexTable.h File Reference

```
#include <vector>
#include <string>
#include <activemq/Util/Config.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
```

Data Structures

- class **activemq::wireformat::openwire::Utils::HexTable**

*The **HexTable** (p. 1388) class maps hexadecimal strings to the value of an index into the table, i.e.*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::Utils**

7.352 src/main/activemq/wireformat/openwire/utls/MessagePropertyI File Reference

```
#include <activemq/util/Config.h>
#include <activemq/commands/Message.h>
#include <activemq/util/PrimitiveMap.h>
#include <activemq/exceptions/ActiveMQException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
```

Data Structures

- class **activemq::wireformat::openwire::utls::MessagePropertyInterceptor**
Used the base ActiveMQMessage class to intercept calls to get and set properties in order to capture the calls that use the reserved JMS properties and get and set them in the OpenWire Message properties.

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::utls**

7.353 src/main/activemq/wireformat/openwire/Utils/OpenwireStringSupport.h File Reference

```
#include <string>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <activemq/Util/Config.h>
```

Data Structures

- class **activemq::wireformat::openwire::Utils::OpenwireStringSupport**

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::wireformat**
- namespace **activemq::wireformat::openwire**
- namespace **activemq::wireformat::openwire::Utils**

7.354 src/main/activemq/wireformat/stomp/StompCommandConstants.h File Reference

```
#include <cms/Destination.h>
#include <activemq/util/Config.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <string>
#include <map>
```

Data Structures

- class **activemq::wireformat::stomp::StompCommandConstants**

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::stomp**

7.355 src/main/activemq/wireformat/stomp/StompFrame.h File Reference

```
#include <string>
#include <string.h>
#include <map>
#include <decaf/util/Properties.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/DataInputStream.h>
#include <activemq/util/Config.h>
```

Data Structures

- class **activemq::wireformat::stomp::StompFrame**
A Stomp-level message frame that encloses all messages to and from the broker.

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::stomp**

7.356 src/main/activemq/wireformat/stomp/StompHelper.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/util/LongSequenceGenerator.h>
#include <activemq/wireformat/stomp/StompFrame.h>
#include <activemq/commands/Message.h>
#include <activemq/commands/MessageId.h>
#include <activemq/commands/ProducerId.h>
#include <activemq/commands/ConsumerId.h>
#include <activemq/commands/TransactionId.h>
#include <activemq/commands/ActiveMQDestination.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::wireformat::stomp::StompHelper**
Utility Methods used when marshaling to and from StompFrame's.

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::wireformat**
- namespace **activemq::wireformat::stomp**

7.357 src/main/activemq/wireformat/stomp/StompWireFormat.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/wireformat/WireFormat.h>
#include <activemq/wireformat/stomp/StompFrame.h>
#include <activemq/wireformat/stomp/StompHelper.h>
#include <decaf/io/IOException.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::wireformat::stomp::StompWireFormat**

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::stomp**

7.358 src/main/activemq/wireformat/stomp/StompWireFormatFactory File Reference

```
#include <activemq/util/Config.h>
#include <activemq/wireformat/WireFormatFactory.h>
#include <activemq/wireformat/stomp/StompWireFormat.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::wireformat::stomp::StompWireFormatFactory**
Factory used to create the Stomp Wire Format instance.

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**
- namespace **activemq::wireformat::stomp**

7.359 src/main/activemq/wireformat/WireFormat.h File Reference

```
#include <activemq/wireformat/WireFormatNegotiator.h>
#include <decaf/io/DataInputStream.h>
#include <decaf/io/DataOutputStream.h>
#include <decaf/io/IOException.h>
#include <decaf/lang/Pointer.h>
#include <activemq/util/Config.h>
#include <activemq/commands/Command.h>
#include <activemq/transport/Transport.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
```

Data Structures

- class **activemq::wireformat::WireFormat**

*Provides a mechanism to marshal **commands** (p. 59) into and out of packets or into and out of streams, Channels and Datagrams.*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**

7.360 src/main/activemq/wireformat/WireFormatFactory.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/wireformat/WireFormat.h>
#include <decaf/util/Properties.h>
#include <decaf/lang/Pointer.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
```

Data Structures

- class **activemq::wireformat::WireFormatFactory**

*The **WireFormatFactory** (p. 2697) is the interface that all **WireFormatFactory** (p. 2697) classes must extend.*

Namespaces

- namespace **activemq**

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- namespace **activemq::wireformat**

7.361 src/main/activemq/wireformat/WireFormatNegotiator.h File Reference

```
#include <activemq/util/Config.h>
#include <activemq/transport/TransportFilter.h>
#include <decaf/lang/Pointer.h>
```

Data Structures

- class **activemq::wireformat::WireFormatNegotiator**
*Defines a **WireFormatNegotiator** (p. 2721) which allows a **WireFormat** (p. 2693) to.*

Namespaces

- namespace **activemq**
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- namespace **activemq::wireformat**

7.362 src/main/activemq/wireformat/WireFormatRegistry.h File Reference

```
#include <activemq/util/Config.h>
#include <string>
#include <vector>
#include <activemq/wireformat/WireFormatFactory.h>
#include <decaf/util/StlMap.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
```

Data Structures

- class **activemq::wireformat::WireFormatRegistry**
*Registry of all **WireFormat** (p. 2693) Factories that are available to the client at runtime.*

Namespaces

- namespace **activemq**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **activemq::wireformat**

7.363 src/main/cms/BytesMessage.h File Reference

```
#include <cms/Config.h>
#include <cms/Message.h>
```

Data Structures

- class **cms::BytesMessage**

*A **BytesMessage** (p. 759) object is used to send a message containing a stream of unsigned bytes.*

Namespaces

- namespace **cms**

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7.364 src/main/cms/Closeable.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::Closeable**
Interface for a class that implements the close method.

Namespaces

- namespace **cms**
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7.365 src/main/decaf/io/Closeable.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::io::Closeable**
Interface for a class that implements the close method.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::io**

7.366 src/main/cms/CMSException.h File Reference

```
#include <string>
#include <vector>
#include <iostream>
#include <exception>
#include <cms/Config.h>
```

Data Structures

- class **cms::CMSException**

CMS API Exception that is the base for all exceptions thrown from CMS classes.

Namespaces

- namespace **cms**

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7.367 src/main/cms/CMSProperties.h File Reference

```
#include <cms/Config.h>
#include <map>
#include <string>
#include <vector>
```

Data Structures

- class **cms::CMSProperties**
Interface for a Java-like properties object.

Namespaces

- namespace **cms**
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7.368 src/main/cms/CMSSecurityException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::CMSSecurityException**

This exception must be thrown when a provider rejects a user name/password submitted by a client.

Namespaces

- namespace **cms**

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7.369 src/main/cms/Connection.h File Reference

```
#include <cms/Config.h>
#include <cms/Startable.h>
#include <cms/Stopable.h>
#include <cms/Closeable.h>
#include <cms/Session.h>
#include <cms/ConnectionMetaData.h>
```

Data Structures

- class **cms::Connection**
The client's connection to its provider.

Namespaces

- namespace **cms**
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7.370 src/main/cms/ConnectionFactory.h File Reference

```
#include <cms/Config.h>
#include <cms/Connection.h>
#include <cms/CMSException.h>
#include <string>
```

Data Structures

- class **cms::ConnectionFactory**

*Defines the interface for a factory that creates connection objects, the **Connection** (p. 941) objects returned implement the CMS **Connection** (p. 941) interface and hide the CMS Provider specific implementation details behind that interface.*

Namespaces

- namespace **cms**

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7.371 src/main/cms/ConnectionMetaData.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::ConnectionMetaData**

*A **ConnectionMetaData** (p. 1015) object provides information describing the **Connection** (p. 941) object.*

Namespaces

- namespace **cms**

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7.372 src/main/cms/DeliveryMode.h File Reference

```
#include <cms/Config.h>
```

Data Structures

- class **cms::DeliveryMode**

This is an Abstract class whose purpose is to provide a container for the delivery mode enumeration for CMS messages.

Namespaces

- namespace **cms**

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7.373 src/main/cms/Destination.h File Reference

```
#include <cms/CMSProperties.h>
#include <cms/Config.h>
#include <string>
```

Data Structures

- class **cms::Destination**

*A **Destination** (p. 1190) object encapsulates a provider-specific address.*

Namespaces

- namespace **cms**

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7.374 src/main/cms/ExceptionListener.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::ExceptionListener**

*If a CMS provider detects a serious problem, it notifies the client application through an **ExceptionListener** (p. 1275) that is registered with the **Connection** (p. 941).*

Namespaces

- namespace **cms**

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7.375 src/main/cms/IllegalStateException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::IllegalStateException**

This exception is thrown when a method is invoked at an illegal or inappropriate time or if the provider is not in an appropriate state for the requested operation.

Namespaces

- namespace **cms**

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7.376 src/main/decaf/lang/exceptions/IllegalStateException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::IllegalStateException**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.377 src/main/cms/InvalidClientIdException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::InvalidClientIdException**

This exception must be thrown when a client attempts to set a connection's client ID to a value that is rejected by a provider.

Namespaces

- namespace **cms**

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7.378 src/main/cms/InvalidDestinationException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::InvalidDestinationException**

This exception must be thrown when a destination either is not understood by a provider or is no longer valid.

Namespaces

- namespace **cms**

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7.379 src/main/cms/InvalidSelectorException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::InvalidSelectorException**

This exception must be thrown when a CMS client attempts to give a provider a message selector with invalid syntax.

Namespaces

- namespace **cms**

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7.380 src/main/cms/MapMessage.h File Reference

```
#include <cms/Config.h>
#include <cms/Message.h>
```

Data Structures

- class **cms::MapMessage**

*A **MapMessage** (p. 1701) object is used to send a set of name-value pairs.*

Namespaces

- namespace **cms**

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7.381 src/main/cms/MessageConsumer.h File Reference

```
#include <cms/Config.h>
#include <cms/MessageListener.h>
#include <cms/Message.h>
#include <cms/Closeable.h>
```

Data Structures

- class **cms::MessageConsumer**

A client uses a `MessageConsumer` (p. 1795) to received messages from a destination.

Namespaces

- namespace **cms**

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7.382 src/main/cms/MessageEOFException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::MessageEOFException**

*This exception must be thrown when an unexpected end of stream has been reached when a **StreamMessage** (p. 2476) or **BytesMessage** (p. 759) is being read.*

Namespaces

- namespace **cms**

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7.383 src/main/cms/MessageFormatException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::MessageFormatException**

This exception must be thrown when a CMS client attempts to use a data type not supported by a message or attempts to read data in a message as the wrong type.

Namespaces

- namespace **cms**

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7.384 src/main/cms/MessageListener.h File Reference

```
#include <cms/Config.h>
```

Data Structures

- class **cms::MessageListener**

A `MessageListener` (p. 1860) object is used to receive asynchronously delivered messages.

Namespaces

- namespace **cms**

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7.385 src/main/cms/MessageNotReadableException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::MessageNotReadableException**

This exception must be thrown when a CMS client attempts to read a write-only message.

Namespaces

- namespace **cms**

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7.386 src/main/cms/MessageNotWriteableException.h File Reference

```
#include <cms/Config.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::MessageNotWriteableException**

This exception must be thrown when a CMS client attempts to write to a read-only message.

Namespaces

- namespace **cms**

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7.387 src/main/cms/MessageProducer.h File Reference

```
#include <cms/Config.h>
#include <cms/Message.h>
#include <cms/Destination.h>
#include <cms/Closeable.h>
#include <cms/CMSException.h>
#include <cms/DeliveryMode.h>
```

Data Structures

- class **cms::MessageProducer**

*A client uses a **MessageProducer** (p. 1878) object to send messages to a **Destination** (p. 1190).*

Namespaces

- namespace **cms**

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7.388 src/main/cms/ObjectMessage.h File Reference

```
#include <cms/Config.h>
#include <cms/Message.h>
```

Data Structures

- class **cms::ObjectMessage**

Place holder for interaction with JMS systems that support Java, the C++ client is not responsible for deserializing the contained Object.

Namespaces

- namespace **cms**

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7.389 src/main/cms/Queue.h File Reference

```
#include <cms/Config.h>
#include <cms/Destination.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::Queue**
An interface encapsulating a provider-specific queue name.

Namespaces

- namespace **cms**
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7.390 src/main/decaf/util/Queue.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/AbstractCollection.h>
#include <decaf/lang/Exception.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
```

Data Structures

- class **decaf::util::Queue< E >**

A kind of collection provides advanced operations than other basic collections, such as insertion, extraction, and inspection.

Namespaces

- namespace **decaf**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **decaf::util**

7.391 src/main/cms/QueueBrowser.h File Reference

```
#include <vector>
#include <string>
#include <cms/Config.h>
#include <cms/Closeable.h>
#include <cms/Queue.h>
#include <cms/Message.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::QueueBrowser**

*This class implements in interface for browsing the messages in a **Queue** (p. 2157) without removing them.*

Namespaces

- namespace **cms**

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7.392 src/main/cms/Session.h File Reference

```
#include <cms/Config.h>
#include <cms/Closeable.h>
#include <cms/Message.h>
#include <cms/TextMessage.h>
#include <cms/BytesMessage.h>
#include <cms/MapMessage.h>
#include <cms/StreamMessage.h>
#include <cms/MessageProducer.h>
#include <cms/MessageConsumer.h>
#include <cms/Topic.h>
#include <cms/Queue.h>
#include <cms/QueueBrowser.h>
#include <cms/TemporaryTopic.h>
#include <cms/TemporaryQueue.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::Session**

*A **Session** (p. 2270) object is a single-threaded context for producing and consuming messages.*

Namespaces

- namespace **cms**

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7.393 src/main/cms/Startable.h File Reference

```
#include <cms/Config.h>  
#include <cms/CMSException.h>
```

Data Structures

- class **cms::Startable**
Interface for a class that implements the start method.

Namespaces

- namespace **cms**
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7.394 src/main/cms/Stoppable.h File Reference

```
#include <cms/Config.h>  
#include <cms/CMSException.h>
```

Data Structures

- class **cms::Stoppable**
Interface for a class that implements the stop method.

Namespaces

- namespace **cms**
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7.395 src/main/cms/StreamMessage.h File Reference

```
#include <cms/Config.h>
#include <cms/Message.h>
#include <cms/CMSException.h>
#include <cms/MessageNotReadableException.h>
#include <cms/MessageNotWriteableException.h>
#include <cms/MessageFormatException.h>
#include <cms/MessageEOFException.h>
```

Data Structures

- class **cms::StreamMessage**
*Interface for a **StreamMessage** (p. 2476).*

Namespaces

- namespace **cms**
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7.396 src/main/cms/TemporaryQueue.h File Reference

```
#include <cms/Config.h>
#include <cms/Destination.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::TemporaryQueue**
*Defines a Temporary **Queue** (p. 2157) based **Destination** (p. 1190).*

Namespaces

- namespace **cms**
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7.397 src/main/cms/TemporaryTopic.h File Reference

```
#include <cms/Config.h>
#include <cms/Destination.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::TemporaryTopic**
*Defines a Temporary **Topic** (p. 2571) based **Destination** (p. 1190).*

Namespaces

- namespace **cms**
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7.398 src/main/cms/TextMessage.h File Reference

```
#include <cms/Config.h>
#include <cms/Message.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::TextMessage**
Interface for a text message.

Namespaces

- namespace **cms**
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7.399 src/main/cms/Topic.h File Reference

```
#include <cms/Config.h>
#include <cms/Destination.h>
#include <cms/CMSException.h>
```

Data Structures

- class **cms::Topic**

An interface encapsulating a provider-specific topic name.

Namespaces

- namespace **cms**

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7.400 src/main/decaf/internal/AprPool.h File Reference

```
#include <decaf/util/Config.h>
```

```
#include <apr_pools.h>
```

Data Structures

- class **decaf::internal::AprPool**

*Wraps an APR pool object so that classes in **decaf** (p. 94) can create a static member for use in static methods where apr function calls that need a pool are made.*

Namespaces

- namespace **decaf**

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- namespace **decaf::internal**

7.401 src/main/decaf/internal/DecafRuntime.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Runtime.h>
#include <apr_pools.h>
```

Data Structures

- class **decaf::internal::DecafRuntime**
Handles APR initialization and termination.

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**

7.402 src/main/decaf/internal/io/StandardErrorOutputStream.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/OutputStream.h>
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **decaf::internal::io::StandardErrorOutputStream**
Wrapper Around the Standard error Output facility on the current platform.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::internal**
- namespace **decaf::internal::io**

7.403 src/main/decaf/internal/io/StandardInputStream.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/InputStream.h>
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **decaf::internal::io::StandardInputStream**

Namespaces

- namespace **decaf**

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- namespace **decaf::internal**
- namespace **decaf::internal::io**

7.404 src/main/decaf/internal/io/StandardOutputStream.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/OutputStream.h>
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **decaf::internal::io::StandardOutputStream**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::io**

7.405 src/main/decaf/internal/net/URLEncoderDecoder.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/net/URISyntaxException.h>
#include <string>
```

Data Structures

- class **decaf::internal::net::URLEncoderDecoder**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::net**

7.406 src/main/decaf/internal/net/URIHelper.h File Reference

```
#include <string>
#include <decaf/util/Config.h>
#include <decaf/net/URISyntaxException.h>
#include <decaf/internal/net/URIType.h>
```

Data Structures

- class **decaf::internal::net::URIHelper**
Helper class used by the URI classes in encoding and decoding of URI's.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::internal**
- namespace **decaf::internal::net**

7.407 src/main/decaf/internal/net/URIType.h File Reference

```
#include <string>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::internal::net::URIType**
Basic type object that holds data that composes a given URI.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::internal**
- namespace **decaf::internal::net**

7.408 src/main/decaf/internal/nio/BufferFactory.h File Reference

```
#include <decaf/nio/ByteBuffer.h>
#include <decaf/nio/CharBuffer.h>
#include <decaf/nio/DoubleBuffer.h>
#include <decaf/nio/FloatBuffer.h>
#include <decaf/nio/LongBuffer.h>
#include <decaf/nio/IntBuffer.h>
#include <decaf/nio/ShortBuffer.h>
```

Data Structures

- class **decaf::internal::nio::BufferFactory**

*Factory class used by static methods in the **decaf::nio** (p. 106) package to create the various default version of the NIO interfaces.*

Namespaces

- namespace **decaf**

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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.409 src/main/decaf/internal/nio/ByteArrayBuffer.h File Reference

```
#include <decaf/nio/ByteBuffer.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
#include <decaf/nio/CharBuffer.h>
#include <decaf/nio/DoubleBuffer.h>
#include <decaf/nio/FloatBuffer.h>
#include <decaf/nio/ShortBuffer.h>
#include <decaf/nio/IntBuffer.h>
#include <decaf/nio/LongBuffer.h>
```

Data Structures

- class **decaf::internal::nio::ByteArrayBuffer**

This class defines six categories of operations upon byte buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.410 src/main/decaf/internal/nio/ByteArrayPerspective.h File Reference

```
#include <decaf/internal/util/ByteArrayAdapter.h>
```

Data Structures

- class **decaf::internal::nio::ByteArrayPerspective**

This class extends `ByteArray` to create a reference counted byte array that can be held and used by several different `ByteBuffers` and allow them to know on destruction whose job it is to delete the perspective.

Namespaces

- namespace **decaf**

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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.411 src/main/decaf/internal/nio/CharArrayBuffer.h File Reference

```
#include <decaf/nio/CharBuffer.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
```

Data Structures

- class **decaf::internal::nio::CharArrayBuffer**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.412 src/main/decaf/internal/nio/DoubleArrayBuffer.h File Reference

```
#include <decaf/nio/DoubleBuffer.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
```

Data Structures

- class **decaf::internal::nio::DoubleArrayBuffer**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.413 src/main/decaf/internal/nio/FloatArrayBuffer.h File Reference

```
#include <decaf/nio/FloatBuffer.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
```

Data Structures

- class **decaf::internal::nio::FloatArrayBuffer**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.414 src/main/decaf/internal/nio/IntArrayBuffer.h File Reference

```
#include <decaf/nio/IntBuffer.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
```

Data Structures

- class **decaf::internal::nio::IntArrayBuffer**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.415 src/main/decaf/internal/nio/LongArrayBuffer.h File Reference

```
#include <decaf/nio/LongBuffer.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
```

Data Structures

- class **decaf::internal::nio::LongArrayBuffer**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.416 src/main/decaf/internal/nio/ShortArrayBuffer.h File Reference

```
#include <decaf/nio/ShortBuffer.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
```

Data Structures

- class **decaf::internal::nio::ShortArrayBuffer**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::nio**

7.417 src/main/decaf/internal/util/ByteArrayAdapter.h File Reference

```
#include <decaf/lang/exceptions/InvalidStateException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
```

Data Structures

- class **decaf::internal::util::ByteArrayAdapter**
This class adapts primitive type arrays to a base byte array so that the classes can inter-operate on the same base byte array without copying data.
- union **decaf::internal::util::ByteArrayAdapter::Array**

Namespaces

- namespace **decaf**
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- namespace **decaf::internal**
- namespace **decaf::internal::util**

7.418 src/main/decaf/internal/util/HexStringParser.h File Reference

```
#include <decaf/util/Config.h>
```

```
#include <string>
```

Data Structures

- class **decaf::internal::util::HexStringParser**

Namespaces

- namespace **decaf**

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- namespace **decaf::internal**
- namespace **decaf::internal::util**

7.419 src/main/decaf/io/BlockingByteArrayInputStream.h File Reference

```
#include <decaf/io/InputStream.h>
#include <decaf/util/concurrent/Mutex.h>
#include <vector>
```

Data Structures

- class **decaf::io::BlockingByteArrayInputStream**
This is a blocking version of a byte buffer stream.

Namespaces

- namespace **decaf**
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- namespace **decaf::io**

7.420 src/main/decaf/io/BufferedInputStream.h File Reference

```
#include <decaf/io/FilterInputStream.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
```

Data Structures

- class **decaf::io::BufferedInputStream**

*A wrapper around another input stream that performs a buffered read, where it reads more data than it needs in order to reduce the number of **io** (p. 100) operations on the input stream.*

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.421 src/main/decaf/io/BufferedOutputStream.h File Reference

```
#include <decaf/io/FilterOutputStream.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
```

Data Structures

- class **decaf::io::BufferedOutputStream**

Wrapper around another output stream that buffers output before writing to the target output stream.

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.422 src/main/decaf/io/ByteArrayInputStream.h File Reference

```
#include <decaf/io/InputStream.h>
#include <decaf/util/concurrent/Mutex.h>
#include <vector>
#include <algorithm>
```

Data Structures

- class **decaf::io::ByteArrayInputStream**

*Simple implementation of **InputStream** (p. 1406) that wraps around an STL Vector `std::vector<unsigned char>`.*

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.423 src/main/decaf/io/ByteArrayOutputStream.h File Reference

```
#include <decaf/io/OutputStream.h>
#include <decaf/util/concurrent/Mutex.h>
#include <vector>
```

Data Structures

- class **decaf::io::ByteArrayOutputStream**

Namespaces

- namespace **decaf**
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- namespace **decaf::io**

7.424 src/main/decaf/io/DataInputStream.h File Reference

```
#include <decaf/io/FilterInputStream.h>
#include <decaf/io/IOException.h>
#include <decaf/io/EOFException.h>
#include <decaf/io/UTFDataFormatException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
```

Data Structures

- class **decaf::io::DataInputStream**

A data input stream lets an application read primitive Java data types from an underlying input stream in a machine-independent way.

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.425 src/main/decaf/io/DataOutputStream.h File Reference

```
#include <decaf/io/FilterOutputStream.h>
#include <decaf/io/IOException.h>
#include <decaf/io/UTFDataFormatException.h>
#include <string>
```

Data Structures

- class **decaf::io::DataOutputStream**

A data output stream lets an application write primitive Java data types to an output stream in a portable way.

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.426 src/main/decaf/io/EOFException.h File Reference

```
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::io::EOFException**

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.427 src/main/decaf/io/FilterInputStream.h File Reference

```
#include <decaf/io/InputStream.h>
#include <decaf/io/IOException.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
```

Data Structures

- class **decaf::io::FilterInputStream**

*A **FilterInputStream** (p. 1315) contains some other input stream, which it uses as its basic source of data, possibly transforming the data along the way or providing additional functionality.*

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.428 src/main/decaf/io/FilterOutputStream.h File Reference

```
#include <decaf/io/OutputStream.h>
#include <decaf/io/IOException.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/lang/exceptions/NullPointerException.h>
```

Data Structures

- class **decaf::io::FilterOutputStream**

This class is the superclass of all classes that filter output streams.

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.429 src/main/decaf/io/InputStream.h File Reference

```
#include <decaf/io/IOException.h>
#include <decaf/io/Closeable.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::io::InputStream**
Base interface for an input stream.

Namespaces

- namespace **decaf**
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- namespace **decaf::io**

7.430 src/main/decaf/io/InterruptedIOException.h File Reference

```
#include <decaf/lang/Exception.h>
```

```
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::io::InterruptedIOException**

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.431 src/main/decaf/io/IOException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::io::IOException**

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.432 src/main/decaf/io/OutputStream.h File Reference

```
#include <decaf/io/Closeable.h>
#include <decaf/io/IOException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/NullPointerException.h>
```

Data Structures

- class **decaf::io::OutputStream**
Base interface for an output stream.

Namespaces

- namespace **decaf**
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- namespace **decaf::io**

7.433 src/main/decaf/io/Reader.h File Reference

```
#include <string>
#include <decaf/io/IOException.h>
#include <decaf/io/InputStream.h>
#include <decaf/lang/exceptions/NullPointerException.h>
```

Data Structures

- class **decaf::io::Reader**

Namespaces

- namespace **decaf**
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- namespace **decaf::io**

7.434 src/main/decaf/io/UTFDataFormatException.h File Reference

```
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::io::UTFDataFormatException**

Thrown from classes that attempt to read or write a UTF-8 encoded string and an encoding error is encountered.

Namespaces

- namespace **decaf**

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- namespace **decaf::io**

7.435 src/main/decaf/io/Writer.h File Reference

```
#include <string>
#include <decaf/io/IOException.h>
#include <decaf/io/OutputStream.h>
#include <decaf/lang/exceptions/NullPointerException.h>
```

Data Structures

- class **decaf::io::Writer**

Namespaces

- namespace **decaf**
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- namespace **decaf::io**

7.436 src/main/decaf/lang/Appendable.h File Reference

```
#include <decaf/lang/Exception.h>
```

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Appendable**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.437 src/main/decaf/lang/Boolean.h File Reference

```
#include <string>
#include <decaf/lang/Comparable.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Boolean**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.438 src/main/decaf/lang/Byte.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Number.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NumberFormatException.h>
#include <string>
```

Data Structures

- class **decaf::lang::Byte**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.439 src/main/decaf/lang/Character.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Number.h>
#include <decaf/lang/Comparable.h>
#include <string>
```

Data Structures

- class **decaf::lang::Character**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.440 src/main/decaf/lang/CharSequence.h File Reference

```
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::CharSequence**

*A **CharSequence** (p. 833) is a readable sequence of char values.*

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.441 src/main/decaf/lang/Comparable.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Comparable**< **T** >

This interface imposes a total ordering on the objects of each class that implements it.

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.442 src/main/decaf/lang/Double.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/Number.h>
#include <decaf/lang/exceptions/NumberFormatException.h>
#include <string>
```

Data Structures

- class **decaf::lang::Double**

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.443 src/main/decaf/lang/Exception.h File Reference

```
#include <decaf/lang/Throwable.h>
#include <decaf/lang/exceptions/ExceptionDefines.h>
#include <decaf/util/Config.h>
#include <stdarg.h>
#include <sstream>
```

Data Structures

- class **decaf::lang::Exception**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.444 src/main/decaf/lang/exceptions/ClassCastException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::ClassCastException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.445 src/main/decaf/lang/exceptions/IllegalArgumentException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::IllegalArgumentException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.446 src/main/decaf/lang/exceptions/IllegalMonitorStateException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::IllegalMonitorStateException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.447 src/main/decaf/lang/exceptions/IndexOutOfBoundsException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::IndexOutOfBoundsException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.448 src/main/decaf/lang/exceptions/InterruptedException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::InterruptedException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.449 src/main/decaf/lang/exceptions/InvalidStateException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::InvalidStateException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.450 src/main/decaf/lang/exceptions/NoSuchElementException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::NoSuchElementException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.451 src/main/decaf/lang/exceptions/NullPointerException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::NullPointerException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.452 src/main/decaf/lang/exceptions/NumberFormatException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::NumberFormatException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.453 src/main/decaf/lang/exceptions/RuntimeException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::RuntimeException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.454 src/main/decaf/lang/exceptions/UnsupportedOperationException File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::lang::exceptions::UnsupportedOperationException**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **decaf::lang::exceptions**

7.455 src/main/decaf/lang/Float.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Number.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NumberFormatException.h>
#include <string>
```

Data Structures

- class **decaf::lang::Float**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.456 src/main/decaf/lang/Integer.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Number.h>
#include <decaf/lang/Comparable.h>
#include <string>
#include <decaf/lang/exceptions/NumberFormatException.h>
```

Data Structures

- class **decaf::lang::Integer**

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.457 src/main/decaf/lang/Iterable.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/util/Iterator.h>
```

Data Structures

- class **decaf::lang::Iterable**< **E** >

*Implementing this interface allows an object to be cast to an **Iterable** (p. 1487) type for generic collections API calls.*

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.458 src/main/decaf/lang/Long.h File Reference

```
#include <decaf/lang/Number.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NumberFormatException.h>
#include <string>
```

Data Structures

- class **decaf::lang::Long**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.459 src/main/decaf/lang/Math.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Math**

*The class **Math** (p. 1718) contains methods for performing basic numeric operations such as the elementary exponential, logarithm, square root, and trigonometric functions.*

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.460 src/main/decaf/lang/Number.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Number**

*The abstract class **Number** (p. 1954) is the superclass of classes **Byte** (p. 664), **Double** (p. 1231), **Float** (p. 1328), **Integer** (p. 1428), **Long** (p. 1652), and **Short** (p. 2321).*

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.461 src/main/decaf/lang/Pointer.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/ClassCastException.h>
#include <decaf/util/concurrent/atomic/AtomicInteger.h>
#include <decaf/util/Comparator.h>
#include <memory>
#include <algorithm>
```

Data Structures

- class **decaf::lang::AtomicRefCounter**
- struct **decaf::lang::STATIC_CAST_TOKEN**
- struct **decaf::lang::DYNAMIC_CAST_TOKEN**
- class **decaf::lang::Pointer< T, REFCOUNTER >**
*Decaf's implementation of a Smart **Pointer** (p.2011) that is a template on a Type and is **Thread** (p.2544) Safe if the default Reference Counter is used.*
- class **decaf::lang::PointerComparator< T, R >**
*This implementation of Comparator is designed to allows objects in a Collection to be sorted or tested for equality based on the value of the Object being Pointed to and not the value of the contained pointer in the **Pointer** (p.2011) instance.*
- struct **std::less< decaf::lang::Pointer< T > >**
An override of the less function object so that the Pointer objects can be stored in STL Maps, etc.

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**
- namespace **std**

Functions

- template<typename T , typename R , typename U >
 bool **decaf::lang::operator==** (const Pointer< T, R > &left, const U *right)
- template<typename T , typename R , typename U >
 bool **decaf::lang::operator==** (const U *left, const Pointer< T, R > &right)
- template<typename T , typename R , typename U >
 bool **decaf::lang::operator!=** (const Pointer< T, R > &left, const U *right)
- template<typename T , typename R , typename U >
 bool **decaf::lang::operator!=** (const U *left, const Pointer< T, R > &right)

7.462 src/main/decaf/lang/Runnable.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Runnable**

Interface for a runnable object - defines a task that can be run by a thread.

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.463 src/main/decaf/lang/Runtime.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Runtime**

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.464 src/main/decaf/lang/Short.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Number.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NumberFormatException.h>
#include <string>
```

Data Structures

- class **decaf::lang::Short**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.465 src/main/decaf/lang/System.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/util/Map.h>
#include <decaf/lang/Exception.h>
#include <decaf/internal/AprPool.h>
#include <string>
```

Data Structures

- class **decaf::lang::System**

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.466 src/main/decaf/lang/Thread.h File Reference

```
#include <decaf/lang/Exception.h>
#include <decaf/lang/Runnable.h>
#include <decaf/util/Config.h>
#include <stdexcept>
#include <assert.h>
#include <apr_thread_proc.h>
```

Data Structures

- class **decaf::lang::Thread**

*Basic thread class - mimics the Java **Thread** (p. 2544).*

Namespaces

- namespace **decaf**

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- namespace **decaf::lang**

7.467 src/main/decaf/lang/Throwable.h File Reference

```
#include <string>
#include <vector>
#include <iostream>
#include <exception>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::lang::Throwable**
This class represents an error that has occurred.

Namespaces

- namespace **decaf**
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- namespace **decaf::lang**

7.468 src/main/decaf/net/BindException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/net/SocketException.h>
```

Data Structures

- class **decaf::net::BindException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.469 src/main/decaf/net/BufferedSocket.h File Reference

```
#include <decaf/net/Socket.h>
#include <decaf/net/SocketException.h>
#include <decaf/io/BufferedInputStream.h>
#include <decaf/io/BufferedOutputStream.h>
```

Data Structures

- class **decaf::net::BufferedSocket**

*Buffered **Socket** (p. 2371) class that wraps a **Socket** (p. 2371) derived object and provides Buffered input and Output Streams to improce the efficiency of the reads and writes.*

Namespaces

- namespace **decaf**

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- namespace **decaf::net**

7.470 src/main/decaf/net/ConnectException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/net/SocketException.h>
```

Data Structures

- class **decaf::net::ConnectException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.471 src/main/decaf/net/HttpRetryException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::net::HttpRetryException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.472 src/main/decaf/net/MalformedURLException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::net::MalformedURLException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.473 src/main/decaf/net/NoRouteToHostException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/net/SocketException.h>
```

Data Structures

- class **decaf::net::NoRouteToHostException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.474 src/main/decaf/net/PortUnreachableException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/net/SocketException.h>
```

Data Structures

- class **decaf::net::PortUnreachableException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.475 src/main/decaf/net/ProtocolException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::net::ProtocolException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.476 src/main/decaf/net/ServerSocket.h File Reference

```
#include <decaf/net/TcpSocket.h>
#include <decaf/net/SocketException.h>
#include <decaf/util/Config.h>
#include <decaf/internal/AprPool.h>
#include <apr_network_io.h>
```

Data Structures

- class **decaf::net::ServerSocket**
A server socket class (for testing purposes).

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.477 src/main/decaf/net/Socket.h File Reference

```
#include <decaf/net/SocketException.h>
#include <decaf/io/InputStream.h>
#include <decaf/io/OutputStream.h>
#include <decaf/io/Closeable.h>
#include <decaf/util/Config.h>
#include <apr_network_io.h>
```

Data Structures

- class **decaf::net::Socket**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.478 src/main/decaf/net/SocketError.h File Reference

```
#include <string>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::net::SocketError**
Static utility class to simplify handling of error codes for socket operations.

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.479 src/main/decaf/net/SocketException.h File Reference

```
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::net::SocketException**
Exception for errors when manipulating sockets.

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.480 src/main/decaf/net/SocketFactory.h File Reference

```
#include <decaf/net/SocketException.h>
#include <decaf/util/Properties.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::net::SocketFactory**
Socket (p. 2371) Factory implementation for use in *Creating Sockets*.

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.481 src/main/decaf/net/SocketInputStream.h File Reference

```
#include <decaf/io/InputStream.h>
#include <decaf/net/Socket.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/lang/Exception.h>
#include <decaf/lang/exceptions/NullPointerException.h>
```

Data Structures

- class **decaf::net::SocketInputStream**
Input stream for performing reads on a socket.

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.482 src/main/decaf/net/SocketOutputStream.h File Reference

```
#include <decaf/io/OutputStream.h>
#include <decaf/net/Socket.h>
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **decaf::net::SocketOutputStream**
Output stream for performing write operations on a socket.

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.483 src/main/decaf/net/SocketTimeoutException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/InterruptedIOException.h>
```

Data Structures

- class **decaf::net::SocketTimeoutException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.484 src/main/decaf/net/TcpSocket.h File Reference

```
#include <decaf/net/SocketException.h>
#include <decaf/net/Socket.h>
#include <decaf/io/InputStream.h>
#include <decaf/io/OutputStream.h>
#include <decaf/util/Config.h>
#include <decaf/internal/AprPool.h>
```

Data Structures

- class **decaf::net::TcpSocket**
Platform-independent implementation of the socket interface.

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.485 src/main/decaf/net/UnknownHostException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::net::UnknownHostException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.486 src/main/decaf/net/UnknownServiceException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::net::UnknownServiceException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.487 src/main/decaf/net/URI.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/net/URISyntaxException.h>
#include <decaf/net/MalformedURLException.h>
#include <decaf/net/URL.h>
#include <decaf/internal/net/URIType.h>
#include <string>
```

Data Structures

- class **decaf::net::URI**

*This class represents an instance of a **URI** (p. 2638) as defined by RFC 2396.*

Namespaces

- namespace **decaf**

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- namespace **decaf::net**

7.488 src/main/decaf/net/URISyntaxException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::net::URISyntaxException**

Namespaces

- namespace **decaf**
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- namespace **decaf::net**

7.489 src/main/decaf/net/URL.h File Reference

```
#include <decaf/util/Config.h>
#include <string>
```

Data Structures

- class **decaf::net::URL**

*Class **URL** (p. 2677) represents a Uniform Resource Locator, a pointer to a "resource" on the World Wide Web.*

Namespaces

- namespace **decaf**

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- namespace **decaf::net**

7.490 src/main/decaf/net/URLDecoder.h File Reference

```
#include <decaf/util/Config.h>
```

```
#include <string>
```

Data Structures

- class **decaf::net::URLDecoder**

Namespaces

- namespace **decaf**

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- namespace **decaf::net**

7.491 src/main/decaf/net/URLEncoder.h File Reference

```
#include <decaf/util/Config.h>
```

```
#include <string>
```

Data Structures

- class **decaf::net::URLEncoder**

Namespaces

- namespace **decaf**

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- namespace **decaf::net**

7.492 src/main/decaf/nio/Buffer.h File Reference

```
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/nio/InvalidMarkException.h>
```

Data Structures

- class **decaf::nio::Buffer**
A container for data of a specific primitive type.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::nio**

7.493 src/main/decaf/nio/BufferOverflowException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::nio::BufferOverflowException**

Namespaces

- namespace **decaf**
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- namespace **decaf::nio**

7.494 src/main/decaf/nio/BufferUnderflowException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::nio::BufferUnderflowException**

Namespaces

- namespace **decaf**
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- namespace **decaf::nio**

7.495 src/main/decaf/nio/ByteBuffer.h File Reference

```
#include <decaf/nio/Buffer.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/internal/nio/ByteArrayPerspective.h>
```

Data Structures

- class **decaf::nio::ByteBuffer**

This class defines six categories of operations upon byte buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.496 src/main/decaf/nio/CharBuffer.h File Reference

```
#include <decaf/nio/Buffer.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
#include <decaf/lang/CharSequence.h>
#include <decaf/lang/Appendable.h>
```

Data Structures

- class **decaf::nio::CharBuffer**

This class defines four categories of operations upon character buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.497 src/main/decaf/nio/DoubleBuffer.h File Reference

```
#include <decaf/nio/Buffer.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
```

Data Structures

- class **decaf::nio::DoubleBuffer**

This class defines four categories of operations upon double buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.498 src/main/decaf/nio/FloatBuffer.h File Reference

```
#include <decaf/nio/Buffer.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
```

Data Structures

- class **decaf::nio::FloatBuffer**

This class defines four categories of operations upon float buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.499 src/main/decaf/nio/IntBuffer.h File Reference

```
#include <decaf/nio/Buffer.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
```

Data Structures

- class **decaf::nio::IntBuffer**

This class defines four categories of operations upon int buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.500 src/main/decaf/nio/InvalidMarkException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
```

Data Structures

- class **decaf::nio::InvalidMarkException**

Namespaces

- namespace **decaf**
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- namespace **decaf::nio**

7.501 src/main/decaf/nio/LongBuffer.h File Reference

```
#include <decaf/nio/Buffer.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
```

Data Structures

- class **decaf::nio::LongBuffer**

This class defines four categories of operations upon long long buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.502 src/main/decaf/nio/ReadOnlyBufferException.h File Reference

```
#include <decaf/util/Config.h>
```

```
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
```

Data Structures

- class **decaf::nio::ReadOnlyBufferException**

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.503 src/main/decaf/nio/ShortBuffer.h File Reference

```
#include <decaf/nio/Buffer.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/nio/BufferUnderflowException.h>
#include <decaf/nio/BufferOverflowException.h>
#include <decaf/nio/ReadOnlyBufferException.h>
```

Data Structures

- class **decaf::nio::ShortBuffer**

This class defines four categories of operations upon short buffers:.

Namespaces

- namespace **decaf**

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- namespace **decaf::nio**

7.504 src/main/decaf/security/auth/x500/X500Principal.h File Reference

```
#include <string>
#include <vector>
#include <decaf/security/Principal.h>
#include <decaf/util/Map.h>
#include <decaf/io/InputStream.h>
```

Data Structures

- class `decaf::security::auth::x500::X500Principal`

Namespaces

- namespace `decaf`
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- namespace `decaf::security`
- namespace `decaf::security::auth`
- namespace `decaf::security::auth::x500`

7.505 src/main/decaf/security/cert/Certificate.h File Reference

```
#include <vector>
#include <decaf/util/Config.h>
#include <decaf/security/InvalidKeyException.h>
#include <decaf/security/NoSuchAlgorithmException.h>
#include <decaf/security/SignatureException.h>
#include <decaf/security/cert/CertificateEncodingException.h>
#include <decaf/security/cert/CertificateException.h>
```

Data Structures

- class **decaf::security::cert::Certificate**
Base interface for all identity certificates.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security**
- namespace **decaf::security::cert**

7.506 src/main/decaf/security/cert/CertificateEncodingException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/security/cert/CertificateException.h>
```

Data Structures

- class **decaf::security::cert::CertificateEncodingException**

Namespaces

- namespace **decaf**
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- namespace **decaf::security**
- namespace **decaf::security::cert**

7.507 src/main/decaf/security/cert/CertificateException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/security/GeneralSecurityException.h>
```

Data Structures

- class **decaf::security::cert::CertificateException**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security**
- namespace **decaf::security::cert**

7.508 src/main/decaf/security/cert/CertificateExpiredException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/security/cert/CertificateException.h>
```

Data Structures

- class **decaf::security::cert::CertificateExpiredException**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security**
- namespace **decaf::security::cert**

7.509 src/main/decaf/security/cert/CertificateNotYetValidException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/security/cert/CertificateException.h>
```

Data Structures

- class **decaf::security::cert::CertificateNotYetValidException**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security**
- namespace **decaf::security::cert**

7.510 src/main/decaf/security/cert/CertificateParsingException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/security/cert/CertificateException.h>
```

Data Structures

- class **decaf::security::cert::CertificateParsingException**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security**
- namespace **decaf::security::cert**

7.511 src/main/decaf/security/cert/X509Certificate.h File Reference

```
#include <decaf/security/cert/Certificate.h>
#include <decaf/util/Config.h>
#include <decaf/util/Date.h>
```

Data Structures

- class **decaf::security::cert::X509Certificate**
Base interface for all identity certificates.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security**
- namespace **decaf::security::cert**

7.512 src/main/decaf/security/GeneralSecurityException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::security::GeneralSecurityException**

Namespaces

- namespace **decaf**
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- namespace **decaf::security**

7.513 src/main/decaf/security/InvalidKeyException.h File Reference

```
#include <decaf/security/KeyException.h>
```

Data Structures

- class **decaf::security::InvalidKeyException**

Namespaces

- namespace **decaf**
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- namespace **decaf::security**

7.514 src/main/decaf/security/Key.h File Reference

```
#include <vector>
#include <string>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::security::Key**
*The **Key** (p. 1570) interface is the top-level interface for all keys.*

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security**

7.515 src/main/decaf/security/KeyException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/security/GeneralSecurityException.h>
```

Data Structures

- class **decaf::security::KeyException**

Namespaces

- namespace **decaf**
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- namespace **decaf::security**

7.516 src/main/decaf/security/NoSuchAlgorithmException.h File Reference

```
#include <decaf/security/GeneralSecurityException.h>
```

Data Structures

- class `decaf::security::NoSuchAlgorithmException`

Namespaces

- namespace `decaf`
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- namespace `decaf::security`

7.517 src/main/decaf/security/NoSuchProviderException.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/security/GeneralSecurityException.h>
```

Data Structures

- class **decaf::security::NoSuchProviderException**

Namespaces

- namespace **decaf**
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- namespace **decaf::security**

7.518 src/main/decaf/security/Principal.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::security::Principal**

Base interface for a principal, which can represent an individual or organization.

Namespaces

- namespace **decaf**

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- namespace **decaf::security**

7.519 src/main/decaf/security/PublicKey.h File Reference

```
#include <decaf/security/Key.h>
```

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::security::PublicKey**
A public key.

Namespaces

- namespace **decaf**
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- namespace **decaf::security**

7.520 src/main/decaf/security/SignatureException.h File Reference

```
#include <decaf/util/Config.h>
```

```
#include <decaf/security/GeneralSecurityException.h>
```

Data Structures

- class **decaf::security::SignatureException**

Namespaces

- namespace **decaf**

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- namespace **decaf::security**

7.521 src/main/decaf/security_provider/SecurityProvider.h File Reference

Data Structures

- class `decaf::security_provider::SecurityProvider`

Namespaces

- namespace `decaf`

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- namespace `decaf::security_provider`

7.522 src/main/decaf/security_provider/SecurityProviderMap.h File Reference

```
#include <map>
#include <vector>
#include <string>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::security_provider::SecurityProviderMap**
Lookup Map for Connector Factories.

Namespaces

- namespace **decaf**
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- namespace **decaf::security_provider**

7.523 src/main/decaf/security_provider/SecurityProviderRegistrar.h File Reference

```
#include <string>
#include <decaf/security_provider/SecurityProviderMap.h>
```

Data Structures

- class **decaf::security_provider::SecurityProviderRegistrar**
Registers the passed in provider into the provider map, this class can manage the lifetime of the registered provider (default behaviour).

Namespaces

- namespace **decaf**
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- namespace **decaf::security_provider**

7.524 src/main/decaf/security_provider/unix/openssl/OpenSSLX500Principal.h File Reference

```
#include <decaf/security/auth/x500/X500Principal.h>  
#include <openssl/x509.h>
```

Data Structures

- class **decaf::security_provider::unix::openssl::OpenSSLX500Principal**
The `OpenSSLX500Principal` (p. 1961) wraps around an `OpenSSL X509_NAME` structure.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security_provider**
- namespace **decaf::security_provider::unix**
- namespace **decaf::security_provider::unix::openssl**

7.525 src/main/decaf/security_provider/unix/openssl/OpenSSLX509Certificate.h

File Reference

```
#include <decaf/security/cert/X509Certificate.h>
```

Data Structures

- class **decaf::security_provider::unix::openssl::OpenSSLX509Certificate**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::security_provider**
- namespace **decaf::security_provider::unix**
- namespace **decaf::security_provider::unix::openssl**

7.526 src/main/decaf/util/AbstractCollection.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/lang/Iterable.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/Collection.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/Mutex.h>
#include <memory>
```

Data Structures

- class **decaf::util::AbstractCollection**< E >

*This class provides a skeletal implementation of the **Collection** (p. 871) interface, to minimize the effort required to implement this interface.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.527 src/main/decaf/util/AbstractList.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/lang/Iterable.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/List.h>
#include <memory>
```

Data Structures

- class **decaf::util::AbstractList**< **E** >

*This class provides a skeletal implementation of the **List** (p. 1591) interface to minimize the effort required to implement this interface backed by a "random access" data store (such as an array).*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.528 src/main/decaf/util/AbstractMap.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/Map.h>
#include <decaf/util/Set.h>
#include <memory>
```

Data Structures

- class **decaf::util::AbstractMap**< K, V, COMPARATOR >

*This class provides a skeletal implementation of the **Map** (p. 1689) interface, to minimize the effort required to implement this interface.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.529 src/main/decaf/util/AbstractQueue.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
#include <decaf/lang/Iterable.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/Queue.h>
#include <memory>
```

Data Structures

- class **decaf::util::AbstractQueue**< E >

*This class provides skeletal implementations of some **Queue** (p. 2154) operations.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.530 src/main/decaf/util/AbstractSequentialList.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/lang/Iterable.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/AbstractList.h>
#include <memory>
```

Data Structures

- class **decaf::util::AbstractSequentialList**< **E** >

*This class provides a skeletal implementation of the **List** (p. 1591) interface to minimize the effort required to implement this interface backed by a "sequential access" data store (such as a linked list).*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.531 src/main/decaf/util/AbstractSet.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/lang/Iterable.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/Set.h>
#include <memory>
```

Data Structures

- class **decaf::util::AbstractSet**< E >

*This class provides a skeletal implementation of the **Set** (p. 2320) interface to minimize the effort required to implement this interface.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.532 src/main/decaf/util/Collection.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/lang/Iterable.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/concurrent/Synchronizable.h>
```

Data Structures

- class **decaf::util::Collection< E >**
The root interface in the collection hierarchy.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.533 src/main/decaf/util/Comparator.h File Reference

```
#include <decaf/util/Config.h>
#include <algorithm>
#include <functional>
```

Data Structures

- class **decaf::util::Comparator< T >**
A comparison function, which imposes a total ordering on some collection of objects.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.534 src/main/decaf/util/concurrent/atomic/AtomicBoolean.h File Reference

```
#include <string>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::concurrent::atomic::AtomicBoolean**

A boolean value that may be updated atomically.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**
- namespace **decaf::util::concurrent::atomic**

7.535 src/main/decaf/util/concurrent/atomic/AtomicInteger.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Number.h>
#include <string>
```

Data Structures

- class **decaf::util::concurrent::atomic::AtomicInteger**
An int value that may be updated atomically.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::util**
- namespace **decaf::util::concurrent**
- namespace **decaf::util::concurrent::atomic**

7.536 src/main/decaf/util/concurrent/atomic/AtomicReference.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Long.h>
#include <apr_atomic.h>
```

Data Structures

- class **decaf::util::concurrent::atomic::AtomicReference< T >**
An Pointer reference that may be updated atomically.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**
- namespace **decaf::util::concurrent::atomic**

7.537 src/main/decaf/util/concurrent/BrokenBarrierException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::BrokenBarrierException**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.538 src/main/decaf/util/concurrent/Callable.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::Callable**< V >

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.539 src/main/decaf/util/concurrent/CancellationException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::CancellationException**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.540 src/main/decaf/util/concurrent/Concurrent.h File Reference

```
#include <decaf/util/concurrent/Lock.h>
```

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

Defines

- **#define WAIT_INFINITE 0xFFFFFFFF**
The synchronized macro defines a mechanism for synchronizing a section of code.
- **#define synchronized(W)**

7.540.1 Define Documentation

7.540.1.1 #define synchronized(W)

Value:

```
if(false){}
else
    for( decaf::util::concurrent::Lock lock_W(W);
        lock_W.isLocked(); lock_W.unlock() )
```

7.540.1.2 #define WAIT_INFINITE 0xFFFFFFFF

The synchronized macro defines a mechanism for synchronizing a section of code. The macro must be passed an object that implements the Synchronizable interface.

The macro works by creating a for loop that will loop exactly once, creating a Lock object that is scoped to the loop. Once the loop completes and exits the Lock object goes out of scope releasing the lock on object W. For added safety the if else is used because not all compilers restrict the lifetime of loop variables to the loop, they will however restrict them to the scope of the else.

The macro would be used as follows.

Synchronizable X;

```
somefunction() { synchronized(X) { // Do something that needs synchronizing. } }
```

7.541 src/main/decaf/util/concurrent/ConcurrentMap.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/util/Map.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
```

Data Structures

- class **decaf::util::concurrent::ConcurrentMap**< **K**, **V**, **COMPARATOR** >
*Interface for a **Map** (p. 1689) type that provides additional **atomic** (p. 118) **putIfAbsent**, **remove**, and **replace** methods alongside the already available **Map** (p. 1689) interface.*

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.542 src/main/decaf/util/concurrent/ConcurrentStlMap.h File Reference

```
#include <map>
#include <vector>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/ConcurrentMap.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/Map.h>
```

Data Structures

- class **decaf::util::concurrent::ConcurrentStlMap**< K, V, COMPARATOR >
Map (p. 1689) template that wraps around a `std::map` to provide a more user-friendly interface and to provide common functions that do not exist in `std::map`.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.543 src/main/decaf/util/concurrent/CountDownLatch.h File Reference

```
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/Config.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::CountDownLatch**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.544 src/main/decaf/util/concurrent/Delayed.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/util/concurrent/TimeUnit.h>
```

Data Structures

- class **decaf::util::concurrent::Delayed**

A mix-in style interface for marking objects that should be acted upon after a given delay.

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.545 src/main/decaf/util/concurrent/ExecutionException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::ExecutionException**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.546 src/main/decaf/util/concurrent/Executor.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Runnable.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/util/concurrent/RejectedExecutionException.h>
```

Data Structures

- class **decaf::util::concurrent::Executor**
*An object that executes submitted **decaf.lang.Runnable** (p. 2256) tasks.*

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.547 src/main/decaf/util/concurrent/Future.h File Reference

Data Structures

- class **decaf::util::concurrent::Future**< **V** >
*A **Future** (p. 1374) represents the result of an asynchronous computation.*

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.548 src/main/decaf/util/concurrent/Lock.h File Reference

```
#include <decaf/lang/Exception.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::concurrent::Lock**

A wrapper class around a given synchronization mechanism that provides automatic release upon destruction.

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.549 src/main/decaf/util/concurrent/locks/Lock.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/InterruptedException.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/util/concurrent/locks/Condition.h>
```

Data Structures

- class **decaf::util::concurrent::locks::Lock**

***Lock** (p. 1618) implementations provide more extensive locking operations than can be obtained using synchronized statements.*

Namespaces

- namespace **decaf**

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.

- namespace **decaf::util**
- namespace **decaf::util::concurrent**
- namespace **decaf::util::concurrent::locks**

7.550 src/main/decaf/util/concurrent/locks/Condition.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/InterruptedException.h>
#include <decaf/lang/exceptions/IllegalMonitorStateException.h>
```

Data Structures

- class **decaf::util::concurrent::locks::Condition**

Condition (p. 932) factors out the *Mutex* (p. 1921) monitor methods (*wait*, *notify* and *notifyAll*) into distinct objects to give the effect of having multiple wait-sets per object, by combining them with the use of arbitrary *Lock* (p. 1618) implementations.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**
- namespace **decaf::util::concurrent::locks**

7.551 src/main/decaf/util/concurrent/locks/ReadWriteLock.h File Reference

Data Structures

- class **decaf::util::concurrent::locks::ReadWriteLock**

*A **ReadWriteLock** (p. 2170) maintains a pair of associated **locks** (p. 119), one for read-only operations and one for writing.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::concurrent**
- namespace **decaf::util::concurrent::locks**

7.552 src/main/decaf/util/concurrent/Mutex.h File Reference

```
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/Concurrent.h>
#include <decaf/lang/Thread.h>
#include <decaf/util/Config.h>
#include <decaf/internal/AprPool.h>
#include <apr_thread_mutex.h>
#include <apr_thread_cond.h>
#include <list>
#include <assert.h>
```

Data Structures

- class **decaf::util::concurrent::Mutex**
Creates a pthread_mutex_t object.

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.553 src/main/decaf/util/concurrent/PooledThread.h File Reference

```
#include <decaf/lang/Thread.h>
#include <decaf/util/concurrent/PooledThreadListener.h>
#include <decaf/util/logging/LoggerDefines.h>
#include <decaf/util/Config.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::PooledThread**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.554 src/main/decaf/util/concurrent/PooledThreadListener.h File Reference

```
#include <decaf/lang/Exception.h>
```

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::concurrent::PooledThreadListener**
Abstract Listener Interface for users of `ThreadPool` (p. 2549).

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.555 src/main/decaf/util/concurrent/RejectedExecutionException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::RejectedExecutionException**

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.556 src/main/decaf/util/concurrent/Synchronizable.h File Reference

```
#include <decaf/lang/Exception.h>
```

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::concurrent::Synchronizable**

The interface for all synchronizable objects (that is, objects that can be locked and unlocked).

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.557 src/main/decaf/util/concurrent/TaskListener.h File Reference

```
#include <decaf/lang/Runnable.h>
#include <decaf/lang/Exception.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::concurrent::TaskListener**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.558 src/main/decaf/util/concurrent/ThreadFactory.h File Reference

Data Structures

- class **decaf::util::concurrent::ThreadFactory**
*public interface **ThreadFactory** (p. 2547)*

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.559 src/main/decaf/util/concurrent/ThreadPool.h File Reference

```
#include <decaf/lang/Runnable.h>
#include <decaf/util/concurrent/PooledThread.h>
#include <decaf/util/concurrent/PooledThreadListener.h>
#include <decaf/util/concurrent/TaskListener.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/StlQueue.h>
#include <decaf/util/logging/LoggerDefines.h>
#include <decaf/util/Config.h>
#include <vector>
```

Data Structures

- class **decaf::util::concurrent::ThreadPool**

Defines a Thread Pool object that implements the functionality of pooling threads to perform user tasks.

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.560 src/main/decaf/util/concurrent/TimeoutException.h File Reference

```
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::concurrent::TimeoutException**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.561 src/main/decaf/util/concurrent/TimeUnit.h File Reference

```
#include <string>
#include <decaf/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
```

Data Structures

- class **decaf::util::concurrent::TimeUnit**

*A **TimeUnit** (p. 2562) represents time durations at a given unit of granularity and provides utility methods to convert across units, and to perform timing and delay operations in these units.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::concurrent**

7.562 src/main/decaf/util/Date.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::Date**
Wrapper class around a time value in milliseconds.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.563 src/main/decaf/util/Iterator.h File Reference

```
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/exceptions/IllegalStateException.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
```

Data Structures

- class **decaf::util::Iterator**< T >
Defines an object that can be used to iterate over the elements of a collection.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.564 src/main/decaf/util/List.h File Reference

```
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/Config.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/AbstractCollection.h>
#include <decaf/util/ListIterator.h>
```

Data Structures

- class **decaf::util::List**< **E** >
An ordered collection (also known as a sequence).

Namespaces

- namespace **decaf**
Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements.
- namespace **decaf::util**

7.565 src/main/decaf/util/ListIterator.h File Reference

```
#include <decaf/util/Iterator.h>
#include <decaf/util/Config.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
```

Data Structures

- class **decaf::util::ListIterator**< **E** >

An iterator for lists that allows the programmer to traverse the list in either direction, modify the list during iteration, and obtain the iterator's current position in the list.

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.566 src/main/decaf/util/logging/ConsoleHandler.h File Reference

```
#include <decaf/util/logging/StreamHandler.h>
#include <decaf/io/StandardErrorOutputStream.h>
```

7.567 src/main/decaf/util/logging/Filter.h File Reference

```
#include <decaf/util/logging/LogRecord.h>
```

Data Structures

- class **decaf::util::logging::Filter**

*A **Filter** (p. 1314) can be used to provide fine grain control over what is logged, beyond the control provided by log levels.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.568 src/main/decaf/util/logging/Formatter.h File Reference

Data Structures

- class **decaf::util::logging::Formatter**
*A **Formatter** (p. 1372) provides support for formatting LogRecords.*

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.569 src/main/decaf/util/logging/Handler.h File Reference

```
#include <decaf/io/Closeable.h>
#include <decaf/util/logging/LogRecord.h>
```

Data Structures

- class **decaf::util::logging::Handler**

A **Handler** (p. 1382) object takes log messages from a **Logger** (p. 1623) and exports them.

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.570 src/main/decaf/util/logging/Logger.h File Reference

```
#include <decaf/util/logging/LoggerCommon.h>
#include <decaf/util/logging/LogRecord.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/util/Config.h>
#include <list>
#include <string>
#include <stdarg.h>
```

Data Structures

- class `decaf::util::logging::Logger`

Namespaces

- namespace `decaf`
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- namespace `decaf::util`
- namespace `decaf::util::logging`

7.571 src/main/decaf/util/logging/LoggerCommon.h File Reference

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::logging**

Enumerations

- enum **decaf::util::logging::Level** {
 decaf::util::logging::Off, **decaf::util::logging::Null**, **decaf::util::logging::Markblock**,
 decaf::util::logging::Debug,
 decaf::util::logging::Info, **decaf::util::logging::Warn**, **decaf::util::logging::Error**,
 decaf::util::logging::Fatal,
 decaf::util::logging::Throwing }
Defines an enumeration for logging levels.

7.572 src/main/decaf/util/logging/LoggerDefines.h File Reference

```
#include <decaf/util/logging/SimpleLogger.h>
#include <sstream>
```

Defines

- **#define LOGDECAF_DECLARE(loggerName) static decaf::util::logging::SimpleLogger loggerName;**
- **#define LOGDECAF_INITIALIZE(loggerName, className, loggerFamily) decaf::util::logging::SimpleLogger className::loggerName(loggerFamily);**
- **#define LOGDECAF_DECLARE_LOCAL(loggerName) decaf::util::logging::Logger loggerName;**
- **#define LOGDECAF_DEBUG(logger, message) logger.debug(__FILE__, __LINE__, message);**
- **#define LOGDECAF_DEBUG_1(logger, message, value)**
- **#define LOGDECAF_INFO(logger, message) logger.info(__FILE__, __LINE__, message);**
- **#define LOGDECAF_ERROR(logger, message) logger.error(__FILE__, __LINE__, message);**
- **#define LOGDECAF_WARN(logger, message) logger.warn(__FILE__, __LINE__, message);**
- **#define LOGDECAF_FATAL(logger, message) logger.fatal(__FILE__, __LINE__, message);**

7.572.1 Define Documentation

7.572.1.1 #define LOGDECAF_DEBUG(logger, message) logger.debug(__FILE__, __LINE__, message);

7.572.1.2 #define LOGDECAF_DEBUG_1(logger, message, value)

Value:

```
;
{
    std::ostringstream ostream;
    ostream << message << value;
    logger.debug(__FILE__, __LINE__, ostream.str());
}
```

- 7.572.1.3 `#define LOGDECAF_DECLARE(loggerName) static
decaf::util::logging::SimpleLogger loggerName;`
- 7.572.1.4 `#define LOGDECAF_DECLARE_LOCAL(loggerName) de-
caf::util::logging::Logger loggerName;`
- 7.572.1.5 `#define LOGDECAF_ERROR(logger, message) logger.error(__-
FILE __, __LINE __, message);`
- 7.572.1.6 `#define LOGDECAF_FATAL(logger, message) logger.fatal(__FILE __-
__, __LINE __, message);`
- 7.572.1.7 `#define LOGDECAF_INFO(logger, message) logger.info(__FILE __,
__LINE __, message);`
- 7.572.1.8 `#define LOGDECAF_INITIALIZE(loggerName,
className, loggerFamily) decaf::util::logging::SimpleLogger
className::loggerName(loggerFamily);`
- 7.572.1.9 `#define LOGDECAF_WARN(logger, message) logger.warn(__FILE __-
__, __LINE __, message);`

7.573 src/main/decaf/util/logging/LoggerHierarchy.h File Reference

Data Structures

- class `decaf::util::logging::LoggerHierarchy`

Namespaces

- namespace `decaf`

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- namespace `decaf::util`
- namespace `decaf::util::logging`

7.574 src/main/decaf/util/logging/LogManager.h File Reference

```
#include <map>
#include <list>
#include <string>
#include <vector>
#include <decaf/util/Properties.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::logging::LogManager**

*There is a single global **LogManager** (p. 1640) object that is used to maintain a set of shared state about Loggers and log services.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.575 src/main/decaf/util/logging/LogRecord.h File Reference

```
#include <decaf/util/logging/LoggerCommon.h>
#include <decaf/util/Config.h>
#include <string>
```

Data Structures

- class **decaf::util::logging::LogRecord**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.576 src/main/decaf/util/logging/LogWriter.h File Reference

```
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **decaf::util::logging::LogWriter**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.577 src/main/decaf/util/logging/MarkBlockLogger.h File Reference

```
#include <decaf/util/logging/Logger.h>
```

Data Structures

- class **decaf::util::logging::MarkBlockLogger**

Defines a class that can be used to mark the entry and exit from scoped blocks.

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.578 src/main/decaf/util/logging/PropertiesChangeListener.h File Reference

```
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::logging::PropertiesChangeListener**

*Defines the interface that classes can use to listen for change events on **Properties** (p. 2140).*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.579 src/main/decaf/util/logging/SimpleFormatter.h File Reference

```
#include <decaf/util/logging/formatter.h>
```

Data Structures

- class **decaf::util::logging::SimpleFormatter**

*Print a brief summary of the **LogRecord** (p. 1645) in a human readable format.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.580 src/main/decaf/util/logging/SimpleLogger.h File Reference

```
#include <string>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::logging::SimpleLogger**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.581 src/main/decaf/util/logging/StreamHandler.h File Reference

```
#include <decaf/util/logging/LoggerCommon.h>
#include <decaf/util/logging/Handler.h>
#include <decaf/util/logging/Formatter.h>
#include <decaf/util/logging/Filter.h>
#include <decaf/io/OutputStream.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/lang/exceptions/InvalidStateException.h>
#include <decaf/util/concurrent/Concurrent.h>
#include <decaf/util/Config.h>
```

Data Structures

- class **decaf::util::logging::StreamHandler**

Namespaces

- namespace **decaf**

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- namespace **decaf::util**
- namespace **decaf::util::logging**

7.582 src/main/decaf/util/Map.h File Reference

```
#include <vector>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/Mutex.h>
```

Data Structures

- class **decaf::util::Map< K, V, COMPARATOR >**
Map (p. 1689) template that wraps around a `std::map` to provide a more user-friendly interface and to provide common functions that do not exist in `std::map`.
- class **decaf::util::Map< K, V, COMPARATOR >::Entry**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.583 src/main/decaf/util/Properties.h File Reference

```
#include <memory>
#include <vector>
#include <string>
#include <decaf/util/Config.h>
#include <decaf/io/InputStream.h>
#include <decaf/io/OutputStream.h>
#include <decaf/io/Reader.h>
#include <decaf/io/Writer.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/lang/exceptions/NullPointerException.h>
#include <decaf/io/IOException.h>
```

Data Structures

- class **decaf::util::Properties**
Java-like properties class for mapping string names to string values.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.584 src/main/decaf/util/Random.h File Reference

```
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <decaf/util/Config.h>
#include <vector>
#include <cmath>
```

Data Structures

- class **decaf::util::Random**

***Random** (p. 2160) Value Generator which is used to generate a stream of pseudorandom numbers.*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

7.585 src/main/decaf/util/Set.h File Reference

```
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/AbstractCollection.h>
```

Data Structures

- class **decaf::util::Set**< **E** >
A collection that contains no duplicate elements.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.586 src/main/decaf/util/StlList.h File Reference

```
#include <list>
#include <algorithm>
#include <memory>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/lang/exceptions/IndexOutOfBoundsException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/Config.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/ListIterator.h>
#include <decaf/util/List.h>
```

Data Structures

- class **decaf::util::StlList< E >**
List (p. 1591) class that wraps the STL list object to provide a simpler interface and additional methods not provided by the STL type.
- class **decaf::util::StlList< E >::StlListIterator**
- class **decaf::util::StlList< E >::ConstStlListIterator**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.587 src/main/decaf/util/StlMap.h File Reference

```
#include <map>
#include <vector>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/Map.h>
```

Data Structures

- class **decaf::util::StlMap< K, V, COMPARATOR >**
Map (p. 1689) template that wraps around a `std::map` to provide a more user-friendly interface and to provide common functions that do not exist in `std::map`.

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.588 src/main/decaf/util/StlQueue.h File Reference

```
#include <list>
#include <vector>
#include <decaf/util/Iterator.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/lang/Exception.h>
```

Data Structures

- class **decaf::util::StlQueue< T >**
*The **Queue** (p. 2154) class accepts messages with an **psuh(m)** command where *m* is the message to be queued.*
- class **decaf::util::StlQueue< T >::QueueIterator**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.589 src/main/decaf/util/StlSet.h File Reference

```
#include <set>
#include <vector>
#include <memory>
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/util/concurrent/Synchronizable.h>
#include <decaf/util/concurrent/Mutex.h>
#include <decaf/util/Iterator.h>
#include <decaf/util/AbstractSet.h>
```

Data Structures

- class **decaf::util::StlSet< E >**
Set (p. 2320) template that wraps around a std::set to provide a more user-friendly interface and to provide common functions that do not exist in std::set.
- class **decaf::util::StlSet< E >::SetIterator**
- class **decaf::util::StlSet< E >::ConstSetIterator**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.590 src/main/decaf/util/StringTokenizer.h File Reference

```
#include <decaf/lang/exceptions/NoSuchElementException.h>
#include <decaf/util/Config.h>
#include <string>
```

Data Structures

- class **decaf::util::StringTokenizer**

Namespaces

- namespace **decaf**
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- namespace **decaf::util**

7.591 src/main/decaf/util/UUID.h File Reference

```
#include <decaf/util/Config.h>
#include <decaf/lang/Comparable.h>
#include <decaf/lang/exceptions/UnsupportedOperationException.h>
#include <decaf/lang/exceptions/IllegalArgumentException.h>
#include <apr_uuid.h>
#include <string>
```

Data Structures

- class **decaf::util::UUID**

*A class that represents an immutable universally unique identifier (**UUID** (p. 2686)).*

Namespaces

- namespace **decaf**

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- namespace **decaf::util**

Index

- ~AbstractCollection
 - decaf::util::AbstractCollection, 123
- ~AbstractList
 - decaf::util::AbstractList, 132
- ~AbstractMap
 - decaf::util::AbstractMap, 133
- ~AbstractQueue
 - decaf::util::AbstractQueue, 135
- ~AbstractSequentialList
 - decaf::util::AbstractSequentialList, 138
- ~AbstractSet
 - decaf::util::AbstractSet, 139
- ~AbstractTransportFactory
 - activemq::transport::AbstractTransportFactory, 141
- ~ActiveMQAckHandler
 - activemq::core::ActiveMQAckHandler, 143
- ~ActiveMQBlobMessage
 - activemq::commands::ActiveMQBlobMessage, 145
- ~ActiveMQBlobMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller, 154
 - activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller, 158
 - activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller, 150
- ~ActiveMQBytesMessage
 - activemq::commands::ActiveMQBytesMessage, 164
- ~ActiveMQBytesMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller, 181
 - activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller, 185
 - activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller, 177
- ~ActiveMQCPP
 - activemq::library::ActiveMQCPP, 225
- ~ActiveMQConnection
 - activemq::core::ActiveMQConnection, 190
- ~ActiveMQConnectionFactory
 - activemq::core::ActiveMQConnectionFactory, 199
- ~ActiveMQConnectionMetaData
 - activemq::core::ActiveMQConnectionMetaData, 204
- ~ActiveMQConnectionSupport
 - activemq::core::ActiveMQConnectionSupport, 209
- ~ActiveMQConsumer
 - activemq::core::ActiveMQConsumer, 219
- ~ActiveMQDestination
 - activemq::commands::ActiveMQDestination, 229
- ~ActiveMQDestinationMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller, 243
 - activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller, 247
 - activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller, 239
- ~ActiveMQException
 - activemq::exceptions::ActiveMQException, 251
- ~ActiveMQMapMessage
 - activemq::commands::ActiveMQMapMessage, 255
- ~ActiveMQMapMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller, 271
 - activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller, 274
 - activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller, 266
- ~ActiveMQMessage
 - activemq::commands::ActiveMQMessage, 277
- ~ActiveMQMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller, 285
 - activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller, 289
 - activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller, 281
- ~ActiveMQMessageTemplate
 - activemq::commands::ActiveMQMessageTemplate, 295
- ~ActiveMQObjectMessage
 - activemq::commands::ActiveMQObjectMessage, 295

- 309
- ~ActiveMQObjectMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller, 427
 - 316
 - activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller, 419
 - 320
 - activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller, 419
 - 312
- ~ActiveMQProducer
 - activemq::core::ActiveMQProducer, 324
- ~ActiveMQProperties
 - activemq::util::ActiveMQProperties, 331
- ~ActiveMQQueue
 - activemq::commands::ActiveMQQueue, 436
 - 336
- ~ActiveMQQueueMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller, 440
 - 344
 - activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller, 440
 - 348
 - activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller, 444
 - 340
- ~ActiveMQSession
 - activemq::core::ActiveMQSession, 354
- ~ActiveMQSessionExecutor
 - activemq::core::ActiveMQSessionExecutor, 368
- ~ActiveMQStreamMessage
 - activemq::commands::ActiveMQStreamMessage, 472
 - 374
- ~ActiveMQStreamMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller, 476
 - 390
 - activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller, 468
 - 394
 - activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller, 480
 - 386
- ~ActiveMQTempDestination
 - activemq::commands::ActiveMQTempDestination, 482
 - 398
- ~ActiveMQTempDestinationMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller, 486
 - 406
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller, 486
 - 410
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller, 490
 - 402
- ~ActiveMQTempQueue
 - activemq::commands::ActiveMQTempQueue, 497
 - 414
- ~ActiveMQTempQueueMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller, 499
 - 423
- activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller, 499
- activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller, 499
- ~ActiveMQTempTopic
 - activemq::commands::ActiveMQTempTopic, 441
 - ~ActiveMQTempTopicMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller, 440
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller, 444
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller, 436
- ~ActiveMQTextMessage
 - activemq::commands::ActiveMQTextMessage, 448
 - ~ActiveMQTextMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller, 456
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller, 460
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller, 452
- ~ActiveMQTopic
 - activemq::commands::ActiveMQTopic, 464
 - ~ActiveMQTopicMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller, 472
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller, 476
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller, 468
- ~ActiveMQTransactionContext
 - activemq::core::ActiveMQTransactionContext, 480
- ~Appendable
 - decaf::lang::Appendable, 482
- ~AprPool
 - decaf::internal::AprPool, 484
- ~AtomicBoolean
 - decaf::util::concurrent::atomic::AtomicBoolean, 486
- ~AtomicInteger
 - decaf::util::concurrent::atomic::AtomicInteger, 490
- ~AtomicReference
 - decaf::util::concurrent::atomic::AtomicReference, 497
- ~BackupTransport
 - activemq::transport::failover::BackupTransport, 499
- ~BackupTransportPool

- activemq::transport::failover::BackupTransportPool, 503
- ~BaseCommand
 - activemq::commands::BaseCommand, 506
- ~BaseCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller, 520
 - activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller, 527
 - activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller, 513
- ~BaseDataStreamMarshaller
 - activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 538
- ~BaseDataStructure
 - activemq::commands::BaseDataStructure, 556
- ~BindException
 - decaf::net::BindException, 562
- ~BlockingByteArrayInputStream
 - decaf::io::BlockingByteArrayInputStream, 565
- ~Boolean
 - decaf::lang::Boolean, 572
- ~BooleanExpression
 - activemq::commands::BooleanExpression, 576
- ~BooleanStream
 - activemq::wireformat::openwire::utils::BooleanStream, 579
- ~BrokenBarrierException
 - decaf::util::concurrent::BrokenBarrierException, 582
- ~BrokerError
 - activemq::commands::BrokerError, 585
- ~BrokerException
 - activemq::exceptions::BrokerException, 588
- ~BrokerId
 - activemq::commands::BrokerId, 591
- ~BrokerIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller, 598
 - activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller, 602
 - activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller, 594
- ~BrokerInfo
 - activemq::commands::BrokerInfo, 607
- ~BrokerInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller, 618
 - activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller, 622
- activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller, 614
- ~Buffer
 - decaf::nio::Buffer, 627
- ~BufferFactory
 - decaf::nio::BufferFactory, 648
- ~BufferOverflowException
 - decaf::nio::BufferOverflowException, 657
- ~BufferUnderflowException
 - decaf::nio::BufferUnderflowException, 660
- ~BufferedInputStream
 - decaf::io::BufferedInputStream, 632
- ~BufferedOutputStream
 - decaf::io::BufferedOutputStream, 637
- ~BufferedSocket
 - decaf::net::BufferedSocket, 640
- ~Byte
 - decaf::lang::Byte, 664
- ~ByteArrayAdapter
 - decaf::internal::util::ByteArrayAdapter, 677
- ~ByteArrayBuffer
 - decaf::internal::nio::ByteArrayBuffer, 697
- ~ByteArrayInputStream
 - decaf::io::ByteArrayInputStream, 716
- ~ByteArrayOutputStream
 - decaf::io::ByteArrayOutputStream, 722
- ~ByteArrayPerspective
 - decaf::internal::nio::ByteArrayPerspective, 730
- ~ByteBuffer
 - decaf::nio::ByteBuffer, 737
- ~BytesMessage
 - cms::BytesMessage, 760
- ~CMSException
 - cms::CMSException, 849
- ~CMSProperties
 - cms::CMSProperties, 852
- ~CMSSecurityException
 - cms::CMSSecurityException, 855
- ~CachedConsumer
 - decaf::util::CachedConsumer, 772
- ~CachedProducer
 - decaf::util::CachedProducer, 776
- ~Callable
 - decaf::current::Callable, 781
- ~CancellationException
 - decaf::util::concurrent::CancellationException, 783
- ~Certificate
 - decaf::security::Certificate, 786
- ~CertificateEncodingException
 - decaf::security::CertificateEncodingException, 790

- ~CertificateException
 - decaf::security::cert::CertificateException, 792
- ~CertificateExpiredException
 - decaf::security::cert::CertificateExpiredException, 794
- ~CertificateNotYetValidException
 - decaf::security::cert::CertificateNotYetValidException, 796
- ~CertificateParsingException
 - decaf::security::cert::CertificateParsingException, 798
- ~CharArrayBuffer
 - decaf::internal::nio::CharArrayBuffer, 809
- ~CharBuffer
 - decaf::nio::CharBuffer, 818
- ~CharSequence
 - decaf::lang::CharSequence, 831
- ~ClassCastException
 - decaf::lang::exceptions::ClassCastException, 834
- ~CloseTransportsTask
 - activemq::transport::failover::CloseTransportsTask, 839
- ~Closeable
 - cms::Closeable, 836
 - decaf::io::Closeable, 838
- ~CmsAccessor
 - activemq::cmsutil::CmsAccessor, 842
- ~CmsDestinationAccessor
 - activemq::cmsutil::CmsDestinationAccessor, 846
- ~CmsTemplate
 - activemq::cmsutil::CmsTemplate, 859
- ~Collection
 - decaf::util::Collection, 871
- ~Command
 - activemq::commands::Command, 878
- ~CommandVisitor
 - activemq::state::CommandVisitor, 885
- ~CommandVisitorAdapter
 - activemq::state::CommandVisitorAdapter, 894
- ~Comparable
 - decaf::lang::Comparable, 897
- ~Comparator
 - decaf::util::Comparator, 900
- ~CompositeData
 - activemq::util::CompositeData, 903
- ~CompositeTask
 - activemq::threads::CompositeTask, 904
- ~CompositeTaskRunner
 - activemq::threads::CompositeTaskRunner, 907
- ~CompositeTransport
 - activemq::transport::CompositeTransport, 909
- ~ConcurrentMap
 - decaf::util::concurrent::ConcurrentMap, 912
- ~ConcurrentStlMap
 - decaf::util::concurrent::ConcurrentStlMap, 920
- ~Condition
 - decaf::util::concurrent::locks::Condition, 932
- ~ConnectException
 - decaf::net::ConnectException, 937
- ~Connection
 - cms::Connection, 940
- ~ConnectionControl
 - activemq::commands::ConnectionControl, 944
- ~ConnectionControlMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller, 953
 - activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller, 957
 - activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller, 949
- ~ConnectionError
 - activemq::commands::ConnectionError, 961
- ~ConnectionErrorMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller, 969
 - activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller, 973
 - activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller, 965
- ~ConnectionFactory
 - cms::ConnectionFactory, 977
- ~ConnectionId
 - activemq::commands::ConnectionId, 980
- ~ConnectionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller, 988
 - activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller, 992
 - activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller, 984
- ~ConnectionInfo
 - activemq::commands::ConnectionInfo, 996
- ~ConnectionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller, 1006
 - activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller, 1010

- activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller, 1100
- ~ConnectionMetaData
 - cms::ConnectionMetaData, 1014
- ~ConnectionState
 - activemq::state::ConnectionState, 1018
- ~ConnectionStateTracker
 - activemq::state::ConnectionStateTracker, 1022
- ~ConsumerControl
 - activemq::commands::ConsumerControl, 1027
- ~ConsumerControlMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller, 1036
 - activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller, 1040
 - activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller, 1032
- ~ConsumerId
 - activemq::commands::ConsumerId, 1044
- ~ConsumerIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller, 1053
 - activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller, 1057
 - activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller, 1049
- ~ConsumerInfo
 - activemq::commands::ConsumerInfo, 1062
- ~ConsumerInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller, 1073
 - activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller, 1077
 - activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller, 1069
- ~ConsumerState
 - activemq::state::ConsumerState, 1080
- ~ControlCommand
 - activemq::commands::ControlCommand, 1082
- ~ControlCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller, 1086
 - activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller, 1094
 - activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller, 1090
- ~CountDownLatch
 - decaf::util::concurrent::CountDownLatch, 1097
- ~DataArrayResponse
 - activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller, 1107
 - activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller, 1111
 - activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller, 1103
- ~DataInputStream
 - decaf::io::DataInputStream, 1116
- ~DataOutputStream
 - decaf::io::DataOutputStream, 1124
- ~DataResponse
 - activemq::commands::DataResponse, 1131
- ~DataResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller, 1138
 - activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller, 1142
 - activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller, 1134
- ~DataStreamMarshaller
 - activemq::wireformat::openwire::marshal::v1::DataStreamMarshaller, 1146
- ~DataStructure
 - activemq::commands::DataStructure, 1172
- ~Date
 - decaf::util::Date, 1178
- ~DecafRuntime
 - decaf::internal::DecafRuntime, 1180
- ~DedicatedTaskRunner
 - activemq::threads::DedicatedTaskRunner, 1181
- ~DefaultTransportListener
 - activemq::transport::DefaultTransportListener, 1183
- ~Delayed
 - decaf::util::concurrent::Delayed, 1185
- ~DeliveryMode
 - cms::DeliveryMode, 1186
- ~Destination
 - cms::Destination, 1189
- ~DestinationInfo
 - activemq::commands::DestinationInfo, 1193
- ~DestinationInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller, 1201
 - activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller, 1206
 - activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller, 1198
- ~DestinationResolver

- activemq::cmsutil::DestinationResolver, 1209
- ~DiscoveryEvent
 - activemq::commands::DiscoveryEvent, 1212
- ~DiscoveryEventMarshaller
 - activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller, 1220
 - activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller, 1224
 - activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller, 1216
- ~Dispatcher
 - activemq::core::Dispatcher, 1228
- ~Double
 - decaf::lang::Double, 1231
- ~DoubleArrayBuffer
 - decaf::internal::nio::DoubleArrayBuffer, 1242
- ~DoubleBuffer
 - decaf::nio::DoubleBuffer, 1250
- ~DynamicDestinationResolver
 - activemq::cmsutil::DynamicDestinationResolver, 1260
- ~EOFException
 - decaf::io::EOFException, 1264
- ~Entry
 - decaf::util::Map::Entry, 1262
- ~Exception
 - decaf::lang::Exception, 1268
- ~ExceptionListener
 - cms::ExceptionListener, 1273
- ~ExceptionResponse
 - activemq::commands::ExceptionResponse, 1275
- ~ExceptionResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller, 1282
 - activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller, 1286
 - activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller, 1278
- ~ExecutionException
 - decaf::util::concurrent::ExecutionException, 1290
- ~Executor
 - decaf::util::concurrent::Executor, 1293
- ~FailoverTransport
 - activemq::transport::failover::FailoverTransport, 1296
- ~FailoverTransportFactory
 - activemq::transport::failover::FailoverTransportFactory, 1307
- ~FailoverTransportListener
 - activemq::transport::failover::FailoverTransportListener, 1310
- ~Filter
 - decaf::util::logging::Filter, 1312
- ~FilterInputStream
 - decaf::io::FilterInputStream, 1314
- ~FilterOutputStreamMarshaller
 - decaf::io::FilterOutputStream, 1321
- ~Float
 - decaf::lang::Float, 1328
- ~FloatArrayBufferMarshaller
 - decaf::internal::nio::FloatArrayBuffer, 1339
- ~FloatBuffer
 - decaf::nio::FloatBuffer, 1346
- ~FlushCommand
 - activemq::commands::FlushCommand, 1356
- ~FlushCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller, 1359
 - activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller, 1367
 - activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller, 1363
- ~Formatter
 - decaf::util::logging::Formatter, 1370
- ~Future
 - decaf::util::concurrent::Future, 1373
- ~FutureResponse
 - activemq::transport::correlator::FutureResponse, 1375
- ~GeneralSecurityException
 - decaf::security::GeneralSecurityException, 1378
- ~Handler
 - decaf::util::logging::Handler, 1381
- ~HexTable
 - decaf::internal::util::HexStringParser, 1384
- ~HttpRetryException
 - decaf::net::HttpRetryException, 1389
- ~IOException
 - decaf::io::IOException, 1476
- ~IOTransport
 - activemq::transport::IOTransport, 1480
- ~IllegalArgumentException
 - decaf::lang::exceptions::IllegalArgumentException, 1392
- ~IllegalMonitorStateException
 - decaf::lang::exceptions::IllegalMonitorStateException, 1395
- ~IllegalStateException

- cms::IllegalStateException, 1397
- decaf::lang::exceptions::IllegalStateException, 1399
- ~IndexOutOfBoundsException
 - decaf::lang::exceptions::IndexOutOfBoundsException, 1402
- ~InputStream
 - decaf::io::InputStream, 1405
- ~IntArrayBuffer
 - decaf::internal::nio::IntArrayBuffer, 1410
- ~IntBuffer
 - decaf::nio::IntBuffer, 1417
- ~Integer
 - decaf::lang::Integer, 1429
- ~IntegerResponse
 - activemq::commands::IntegerResponse, 1441
- ~IntegerResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller, 1448
 - activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller, 1444
 - activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller, 1452
- ~InternalCommandListener
 - activemq::transport::mock::InternalCommandListener, 1455
- ~InterruptedException
 - decaf::lang::exceptions::InterruptedException, 1458
- ~InterruptedIOException
 - decaf::io::InterruptedIOException, 1461
- ~InvalidClientIdException
 - cms::InvalidClientIdException, 1463
- ~InvalidDestinationException
 - cms::InvalidDestinationException, 1464
- ~InvalidKeyException
 - decaf::security::InvalidKeyException, 1466
- ~InvalidMarkException
 - decaf::nio::InvalidMarkException, 1469
- ~InvalidSelectorException
 - cms::InvalidSelectorException, 1471
- ~InvalidStateException
 - decaf::lang::exceptions::InvalidStateException, 1473
- ~Iterable
 - decaf::lang::Iterable, 1485
- ~Iterator
 - decaf::util::Iterator, 1487
- ~JournalQueueAck
 - activemq::commands::JournalQueueAck, 1490
- ~JournalQueueAckMarshaller
 - activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller, 1498
 - activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller, 1494
 - activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller, 1502
- ~JournalTopicAck
 - activemq::commands::JournalTopicAck, 1506
- ~JournalTopicAckMarshaller
 - activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller, 1519
 - activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller, 1511
 - activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller, 1515
- ~JournalTrace
 - activemq::commands::JournalTrace, 1523
- ~JournalTraceMarshaller
 - activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller, 1534
 - activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller, 1526
 - activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller, 1530
- ~JournalTransaction
 - activemq::commands::JournalTransaction, 1538
- ~JournalTransactionMarshaller
 - activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller, 1550
 - activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller, 1542
 - activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller, 1546
- ~KeepAliveInfo
 - activemq::commands::KeepAliveInfo, 1554
- ~KeepAliveInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller, 1565
 - activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller, 1561
 - activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller, 1557
- ~Key
 - decaf::security::Key, 1569
- ~KeyException
 - decaf::security::KeyException, 1571
- ~LastPartialCommand
 - activemq::commands::LastPartialCommand, 1574
- ~LastPartialCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller, 1581

- activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller, 1585
- activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller, 1577
- ~List
 - decaf::util::List, 1590
- ~ListIterator
 - decaf::util::ListIterator, 1596
- ~LocalTransactionId
 - activemq::commands::LocalTransactionId, 1599
- ~LocalTransactionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller, 1611
 - activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller, 1603
 - activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller, 1607
- ~Lock
 - decaf::util::concurrent::Lock, 1614
 - decaf::util::concurrent::locks::Lock, 1617
- ~LogManager
 - decaf::util::logging::LogManager, 1640
- ~LogRecord
 - decaf::util::logging::LogRecord, 1644
- ~LogWriter
 - decaf::util::logging::LogWriter, 1648
- ~Logger
 - decaf::util::logging::Logger, 1623
- ~LoggerHierarchy
 - decaf::util::logging::LoggerHierarchy, 1630
- ~LoggingInputStream
 - activemq::io::LoggingInputStream, 1631
- ~LoggingOutputStream
 - activemq::io::LoggingOutputStream, 1633
- ~LoggingTransport
 - activemq::transport::logging::LoggingTransport, 1635
- ~Long
 - decaf::lang::Long, 1653
- ~LongArrayBuffer
 - decaf::internal::nio::LongArrayBuffer, 1666
- ~LongBuffer
 - decaf::nio::LongBuffer, 1674
- ~LongSequenceGenerator
 - activemq::util::LongSequenceGenerator, 1683
- ~MalformedURLException
 - decaf::net::MalformedURLException, 1685
- ~Map
 - decaf::util::Map, 1688
- ~MapMessage
 - cms::MapMessage, 1701
- ~MarkBlockLogger
 - activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller, 1709
 - activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller, 1710
- ~MarshallerFactory
 - activemq::wireformat::openwire::marshal::v1::MarshallerFactory, 1715
 - activemq::wireformat::openwire::marshal::v2::MarshallerFactory, 1713
 - activemq::wireformat::openwire::marshal::v3::MarshallerFactory, 1714
- ~Math
 - decaf::lang::Math, 1718
- ~MemoryUsage
 - activemq::util::MemoryUsage, 1732
- ~Message
 - activemq::transport::Message, 1739
 - cms::Message, 1755
- ~MessageAck
 - activemq::commands::MessageAck, 1776
- ~MessageAckMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller, 1790
 - activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller, 1782
 - activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller, 1786
- ~MessageConsumer
 - cms::MessageConsumer, 1794
- ~MessageCreator
 - activemq::cmsutil::MessageCreator, 1797
- ~MessageDispatch
 - activemq::commands::MessageDispatch, 1799
- ~MessageDispatchChannel
 - activemq::core::MessageDispatchChannel, 1804
- ~MessageDispatchMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller, 1818
 - activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller, 1810
 - activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller, 1814
- ~MessageDispatchNotification
 - activemq::commands::MessageDispatchNotification, 1822
- ~MessageDispatchNotificationMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller, 1832
 - activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller, 1828
 - activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller, 1836

- ~MessageEOFException
 - cms::MessageEOFException, 1839
- ~MessageFormatException
 - cms::MessageFormatException, 1840
- ~MessageId
 - activemq::commands::MessageId, 1842
- ~MessageIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller, 1847
 - activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller, 1855
 - activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller, 1851
- ~MessageListener
 - cms::MessageListener, 1858
- ~MessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageMarshaller, 1870
 - activemq::wireformat::openwire::marshal::v2::MessageMarshaller, 1860
 - activemq::wireformat::openwire::marshal::v3::MessageMarshaller, 1865
- ~MessageNotReadableException
 - cms::MessageNotReadableException, 1874
- ~MessageNotWriteableException
 - cms::MessageNotWriteableException, 1875
- ~MessageProducer
 - cms::MessageProducer, 1877
- ~MessagePropertyInterceptor
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1885
- ~MessagePull
 - activemq::commands::MessagePull, 1892
- ~MessagePullMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller, 1905
 - activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller, 1897
 - activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller, 1901
- ~MockTransport
 - activemq::transport::mock::MockTransport, 1910
- ~MockTransportFactory
 - activemq::transport::mock::MockTransportFactory, 1917
- ~Mutex
 - decaf::util::concurrent::Mutex, 1919
- ~NetworkBridgeFilter
 - activemq::commands::NetworkBridgeFilter, 1923
- ~NetworkBridgeFilterMarshaller
 - activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller, 1934
- activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller, 1930
- activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller, 1926
- ~NoRouteToHostException
 - decaf::net::NoRouteToHostException, 1938
- ~NoSuchAlgorithmException
 - decaf::lang::exceptions::NoSuchAlgorithmException, 1941
- ~NoSuchElementException
 - decaf::lang::exceptions::NoSuchElementException, 1944
- ~NoSuchProviderException
 - decaf::security::NoSuchProviderException, 1947
- ~NullPointerException
 - decaf::lang::exceptions::NullPointerException, 1950
- ~NumberFormatException
 - decaf::lang::exceptions::NumberFormatException, 1957
- ~ObjectMessage
 - cms::ObjectMessage, 1958
- ~OpenSSLX500Principal
 - decaf::security_ - provider::unix::openssl::OpenSSLX500Principal, 1960
- ~OpenSSLX509Certificate
 - decaf::security_ - provider::unix::openssl::OpenSSLX509Certificate, 1963
- ~OpenWireFormat
 - activemq::wireformat::openwire::OpenWireFormat, 1971
- ~OpenWireFormatFactory
 - activemq::wireformat::openwire::OpenWireFormatFactory, 1980
- ~OpenWireFormatNegotiator
 - activemq::wireformat::openwire::OpenWireFormatNegotiator, 1983
- ~OpenWireResponseBuilder
 - activemq::wireformat::openwire::OpenWireResponseBuilder, 1986
- ~OpenwireStringSupport
 - activemq::wireformat::openwire::utils::OpenwireStringSupport, 1988
- ~OutputStream
 - decaf::io::OutputStream, 1990
- ~PartialCommand
 - activemq::commands::PartialCommand, 1994
- ~PartialCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller, 1994

- activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller, 2006
- activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller, 1998
- activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller, 2002
- ~Pointer
 - decaf::lang::Pointer, 2012
- ~PooledSession
 - activemq::cmsutil::PooledSession, 2019
- ~PooledThread
 - decaf::util::concurrent::PooledThread, 2030
- ~PooledThreadListener
 - decaf::util::concurrent::PooledThreadListener, 2033
- ~PortUnreachableException
 - decaf::net::PortUnreachableException, 2036
- ~PrimitiveList
 - activemq::util::PrimitiveList, 2040
- ~PrimitiveMap
 - activemq::util::PrimitiveMap, 2051
- ~PrimitiveTypesMarshaller
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2060
- ~PrimitiveValueConverter
 - activemq::util::PrimitiveValueConverter, 2066
- ~PrimitiveValueNode
 - activemq::util::PrimitiveValueNode, 2074
- ~Principal
 - decaf::security::Principal, 2082
- ~ProducerAck
 - activemq::commands::ProducerAck, 2085
- ~ProducerAckMarshaller
 - activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller, 2093
 - activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller, 2097
 - activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller, 2089
- ~ProducerCallback
 - activemq::cmsutil::ProducerCallback, 2100
- ~ProducerExecutor
 - activemq::cmsutil::CmsTemplate::ProducerExecutor, 2101
- ~ProducerId
 - activemq::commands::ProducerId, 2104
- ~ProducerIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller, 2117
 - activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller, 2109
- activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller, 2113
- activemq::commands::ProducerInfo, 2121
- activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller, 2134
- activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller, 2126
- activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller, 2130
- ~ProducerState
 - activemq::state::ProducerState, 2137
- ~Properties
 - decaf::util::Properties, 2140
- ~PropertiesChangeListener
 - decaf::util::logging::PropertiesChangeListener, 2147
- ~ProtocolException
 - decaf::net::ProtocolException, 2149
- ~PublicKey
 - decaf::security::PublicKey, 2151
- ~Queue
 - decaf::util::Queue, 2153
- ~QueueBrowser
 - cms::QueueBrowser, 2156
- ~ReadOnlyBufferException
 - decaf::nio::ReadOnlyBufferException, 2166
- ~ReadWriteLock
 - decaf::util::concurrent::locks::ReadWriteLock, 2169
- ~Reader
 - decaf::io::Reader, 2163
- ~ReceiveExecutor
 - activemq::CmsTemplate::ReceiveExecutor, 2170
- ~RejectedExecutionException
 - decaf::util::concurrent::RejectedExecutionException, 2173
- ~RemoveInfo
 - activemq::commands::RemoveInfo, 2176
- ~RemoveInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller, 2180
 - activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller, 2188
 - activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller, 2192
- ~RemoveSubscriptionInfo
 - activemq::commands::RemoveSubscriptionInfo, 2192
- ~RemoveSubscriptionInfoMarshaller

- activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller, 2205
- activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller, 2197
- activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller, 2201
- ~ReplayCommand
 - activemq::commands::ReplayCommand, 2209
- ~ReplayCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller, 2221
 - activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller, 2213
 - activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller, 2217
- ~ResolveProducerExecutor
 - activemq::cmsutil::CmsTemplate::ResolveProducerExecutor, 2224
- ~ResolveReceiveExecutor
 - activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor, 2225
- ~ResourceLifecycleManager
 - activemq::cmsutil::ResourceLifecycleManager, 2226
- ~Response
 - activemq::commands::Response, 2230
- ~ResponseBuilder
 - activemq::transport::mock::ResponseBuilder, 2233
- ~ResponseCorrelator
 - activemq::transport::correlator::ResponseCorrelator, 2236
- ~ResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::ResponseMarshaller, 2250
 - activemq::wireformat::openwire::marshal::v2::ResponseMarshaller, 2240
 - activemq::wireformat::openwire::marshal::v3::ResponseMarshaller, 2245
- ~Runnable
 - decaf::lang::Runnable, 2254
- ~Runtime
 - decaf::lang::Runtime, 2255
- ~RuntimeException
 - decaf::lang::exceptions::RuntimeException, 2258
- ~SecurityProvider
 - decaf::security_provider::SecurityProvider, 2260
- ~SecurityProviderRegistrar
 - decaf::security_provider::SecurityProviderRegistrar, 2263
- activemq::cmsutil::CmsTemplate::SendExecutor, 2265
- ~ServerSocket
 - decaf::nio::ServerSocket, 2266
- ~Session
 - cms::Session, 2271
- ~SessionCallback
 - activemq::cmsutil::SessionCallback, 2281
- ~SessionId
 - activemq::commands::SessionId, 2283
- ~SessionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller, 2287
 - activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller, 2295
 - activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller, 2295
- ~SessionInfo
 - activemq::commands::SessionInfo, 2299
- ~SessionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller, 2303
 - activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller, 2307
 - activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller, 2311
- ~SessionPool
 - activemq::cmsutil::SessionPool, 2314
- ~SessionState
 - activemq::state::SessionState, 2317
- ~Set
 - decaf::util::Set, 2318
- ~Short
 - decaf::Short, 2321
- ~ShortArrayBuffer
 - decaf::nio::ShortArrayBuffer, 2330
- ~ShortBufferMarshaller
 - decaf::nio::ShortBuffer, 2338
- ~ShutdownInfo
 - activemq::commands::ShutdownInfo, 2348
- ~ShutdownInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller, 2355
 - activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller, 2351
 - activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller, 2359
- ~SignatureException
 - decaf::security::SignatureException, 2363
- ~SimpleFormatter
 - decaf::util::logging::SimpleFormatter, 2365
- ~SimpleLogger

- decaf::util::logging::SimpleLogger, 2367
- ~Socket
 - decaf::net::Socket, 2370
- ~SocketException
 - decaf::net::SocketException, 2378
- ~SocketFactory
 - decaf::net::SocketFactory, 2380
- ~SocketInputStream
 - decaf::net::SocketInputStream, 2383
- ~SocketOutputStream
 - decaf::net::SocketOutputStream, 2389
- ~SocketTimeoutException
 - decaf::net::SocketTimeoutException, 2394
- ~StandardErrorOutputStream
 - decaf::internal::io::StandardErrorOutputStream, 2398
- ~StandardInputStream
 - decaf::internal::io::StandardInputStream, 2402
- ~StandardOutputStream
 - decaf::internal::io::StandardOutputStream, 2408
- ~Startable
 - cms::Startable, 2411
- ~StaticInitializer
 - activemq::core::ActiveMQConstants::StaticInitializer, 2413
- ~StlList
 - decaf::util::StlList, 2419
- ~StlMap
 - decaf::util::StlMap, 2431
- ~StlQueue
 - decaf::util::StlQueue, 2440
- ~StlSet
 - decaf::util::StlSet, 2446
- ~StompFrame
 - activemq::wireformat::stomp::StompFrame, 2455
- ~StompHelper
 - activemq::wireformat::stomp::StompHelper, 2460
- ~StompWireFormat
 - activemq::wireformat::stomp::StompWireFormat, 2465
- ~StompWireFormatFactory
 - activemq::wireformat::stomp::StompWireFormatFactory, 2468
- ~Stoppable
 - cms::Stoppable, 2469
- ~StreamHandler
 - decaf::util::logging::StreamHandler, 2471
- ~StreamMessage
 - cms::StreamMessage, 2476
- ~StringTokenizer
 - decaf::util::StringTokenizer, 2487
- ~SubscriptionInfo
 - activemq::commands::SubscriptionInfo, 2490
- ~SubscriptionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller, 2495
 - activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller, 2503
 - activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller, 2499
- ~Synchronizable
 - decaf::util::concurrent::Synchronizable, 2506
- ~Synchronization
 - activemq::core::Synchronization, 2514
- ~System
 - decaf::lang::System, 2515
- ~Task
 - activemq::threads::Task, 2518
- ~TaskListener
 - decaf::util::concurrent::TaskListener, 2519
- ~TaskRunner
 - activemq::threads::TaskRunner, 2520
- ~TcpSocket
 - decaf::net::TcpSocket, 2524
- ~TcpTransport
 - activemq::transport::tcp::TcpTransport, 2531
- ~TcpTransportFactory
 - activemq::transport::tcp::TcpTransportFactory, 2534
- ~TemporaryQueue
 - cms::TemporaryQueue, 2536
- ~TemporaryTopic
 - cms::TemporaryTopic, 2538
- ~TextMessage
 - cms::TextMessage, 2540
- ~Thread
 - decaf::lang::Thread, 2543
- ~ThreadFactory
 - decaf::util::concurrent::ThreadFactory, 2545
- ~ThreadPool
 - decaf::util::concurrent::ThreadPool, 2549
- ~Throwable
 - decaf::lang::Throwable, 2554
- ~TimeUnit
 - decaf::util::concurrent::TimeUnit, 2562
- ~TimeoutException
 - decaf::util::concurrent::TimeoutException, 2558
- ~Topic
 - cms::Topic, 2569

- ~Tracked
 - activemq::state::Tracked, 2570
- ~TransactionId
 - activemq::commands::TransactionId, 2572
- ~TransactionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller, 2576
 - activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller, 2584
 - activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller, 2580
- ~TransactionInfo
 - activemq::commands::TransactionInfo, 2588
- ~TransactionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller, 2601
 - activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller, 2593
 - activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller, 2597
- ~TransactionState
 - activemq::state::TransactionState, 2605
- ~Transport
 - activemq::transport::Transport, 2607
- ~TransportFactory
 - activemq::transport::TransportFactory, 2612
- ~TransportFilter
 - activemq::transport::TransportFilter, 2616
- ~TransportListener
 - activemq::transport::TransportListener, 2622
- ~TransportRegistry
 - activemq::transport::TransportRegistry, 2625
- ~URI
 - decaf::net::URI, 2639
- ~URLEncoderDecoder
 - decaf::internal::net::URLEncoderDecoder, 2647
- ~URIHelper
 - decaf::internal::net::URIHelper, 2651
- ~URIPool
 - activemq::transport::failover::URIPool, 2657
- ~URISyntaxException
 - decaf::net::URISyntaxException, 2665
- ~URIType
 - decaf::internal::net::URIType, 2669
- ~URL
 - decaf::net::URL, 2676
- ~URLDecoder
 - decaf::net::URLDecoder, 2677
- ~URLEncoder
 - decaf::net::URLEncoder, 2678
- ~UTFDataFormatException
 - decaf::io::UTFDataFormatException, 2683
- ~UUID
 - decaf::util::UUID, 2686
- ~UnknownHostException
 - decaf::net::UnknownHostException, 2628
- ~UnknownServiceException
 - decaf::net::UnknownServiceException, 2631
- ~UnsupportedOperationException
 - decaf::lang::exceptions::UnsupportedOperationException, 2634
- ~Usage
 - activemq::util::Usage, 2679
- ~WireFormat
 - activemq::wireformat::WireFormat, 2692
- ~WireFormatFactory
 - activemq::wireformat::WireFormatFactory, 2695
- ~WireFormatInfo
 - activemq::commands::WireFormatInfo, 2699
- ~WireFormatInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller, 2716
 - activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller, 2712
 - activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller, 2708
- ~WireFormatNegotiator
 - activemq::wireformat::WireFormatNegotiator, 2719
- ~WireFormatRegistry
 - activemq::wireformat::WireFormatRegistry, 2721
- ~Writer
 - decaf::io::Writer, 2723
- ~X500Principal
 - decaf::security::auth::x500::X500Principal, 2725
- ~X509Certificate
 - decaf::security::cert::X509Certificate, 2726
- ~XATransactionId
 - activemq::commands::XATransactionId, 2730
- ~XATransactionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller, 2735
 - activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller, 2743
 - activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller, 2739

<code>_FALSE</code>	<code>activemq::core::ActiveMQAckHandler</code> , 143
<code> decaf::lang::Boolean</code> , 575	<code>activemq::core::ActiveMQConsumer</code> , 219
<code>_TRUE</code>	<code>AcknowledgeMode</code>
<code> decaf::lang::Boolean</code> , 575	<code> cms::Session</code> , 2271
<code>_array</code>	<code>AckType</code>
<code> decaf::internal::nio::CharArrayBuffer</code> , 814	<code> activemq::core::ActiveMQConstants</code> , 215
<code>_capacity</code>	<code>ackType</code>
<code> decaf::nio::Buffer</code> , 630	<code> activemq::commands::MessageAck</code> , 1780
<code>_limit</code>	<code>action</code>
<code> decaf::nio::Buffer</code> , 630	<code> activemq::cmsutil::CmsTemplate::ProducerExecutor</code> ,
<code>_mark</code>	<code> 2102</code>
<code> decaf::nio::Buffer</code> , 630	<code>activemq</code> , 55
<code>_markSet</code>	<code>activemq/exceptions/ExceptionDefines.h</code>
<code> decaf::nio::Buffer</code> , 630	<code> AMQ_CATCH_ALL_THROW_ -</code>
<code>_position</code>	<code> CMSEXCEPTION</code> , 2845
<code> decaf::nio::Buffer</code> , 630	<code> AMQ_CATCH_EXCEPTION_ -</code>
<code>ABORT</code>	<code> CONVERT</code> , 2846
<code> activemq::wireformat::stomp::StompCommandConstants</code> ,	<code> AMQ_CATCH_NOTHROW</code> , 2846
<code> 2452</code>	<code> AMQs.CATCH_RETHROW</code> , 2846
<code>abs</code>	<code> AMQ_CATCHALL_NOTHROW</code> , 2847
<code> decaf::lang::Math</code> , 1718, 1719	<code> AMQ_CATCHALL_THROW</code> , 2847
<code>AbstractQueue</code>	<code>activemq/util/Config.h</code>
<code> decaf::util::AbstractQueue</code> , 135	<code> AMQCPP_API</code> , 2896
<code>accept</code>	<code>activemq::cmsutil</code> , 56
<code> decaf::net::ServerSocket</code> , 2267	<code>activemq::cmsutil::CachedConsumer</code> , 771
<code>ACK</code>	<code> ~CachedConsumer</code> , 772
<code> activemq::wireformat::stomp::StompCommandConstants</code> ,	<code> CachedConsumer</code> , 772
<code> 2452</code>	<code> create</code> , 772
<code>ACK_AUTO</code>	<code> getMessageListener</code> , 772
<code> activemq::wireformat::stomp::StompCommandConstants</code> ,	<code> getMessageSelector</code> , 772
<code> 2452</code>	<code> receive</code> , 772, 773
<code>ACK_CLIENT</code>	<code> receiveNoWait</code> , 773
<code> activemq::wireformat::stomp::StompCommandConstants</code> ,	<code> setMessageListener</code> , 773
<code> 2452</code>	<code> activemq::cmsutil::CachedProducer</code> , 775
<code>ACK_INDIVIDUAL</code>	<code> ~CachedProducer</code> , 776
<code> activemq::wireformat::stomp::StompCommandConstants</code> ,	<code> CachedProducer</code> , 776
<code> 2452</code>	<code> create</code> , 776
<code>ACK_TYPE_CONSUMED</code>	<code> getDeliveryMode</code> , 776
<code> activemq::core::ActiveMQConstants</code> , 215	<code> getDisableMessageID</code> , 776
<code>ACK_TYPE_DELIVERED</code>	<code> getDisableMessageTimeStamp</code> , 777
<code> activemq::core::ActiveMQConstants</code> , 215	<code> getPriority</code> , 777
<code>ACK_TYPE_INDIVIDUAL</code>	<code> getTimeToLive</code> , 777
<code> activemq::core::ActiveMQConstants</code> , 215	<code> send</code> , 778, 779
<code>ACK_TYPE_POISON</code>	<code> setDeliveryMode</code> , 779
<code> activemq::core::ActiveMQConstants</code> , 215	<code> setDisableMessageID</code> , 779
<code>ACK_TYPE_REDELIVERED</code>	<code> setDisableMessageTimeStamp</code> , 780
<code> activemq::core::ActiveMQConstants</code> , 215	<code> setPriority</code> , 780
<code>acknowledge</code>	<code> setTimeToLive</code> , 780
<code> activemq::commands::ActiveMQMessageTemplate</code> ,	<code> activemq::cmsutil::CmsAccessor</code> , 841
<code> 295</code>	<code> ~CmsAccessor</code> , 842
<code> activemq::core::ActiveMQConsumer</code> , 219	<code> checkConnectionFactory</code> , 842
<code> cms::Message</code> , 1755	<code> CmsAccessor</code> , 842
<code>acknowledgeMessage</code>	<code> createConnection</code> , 842
	<code> createSession</code> , 842

- destroy, 843
- getConnectionFactory, 843
- getResourceLifecycleManager, 843
- getSessionAcknowledgeMode, 843
- init, 844
- setConnectionFactory, 844
- setSessionAcknowledgeMode, 844
- activemq::cmsutil::CmsDestinationAccessor, 845
 - ~CmsDestinationAccessor, 846
 - checkDestinationResolver, 846
 - CmsDestinationAccessor, 846
 - destroy, 846
 - getDestinationResolver, 846
 - init, 846
 - isPubSubDomain, 846
 - resolveDestinationName, 847
 - setDestinationResolver, 847
 - setPubSubDomain, 847
- activemq::cmsutil::CmsTemplate, 856
 - ~CmsTemplate, 859
 - CmsTemplate, 859
 - DEFAULT_PRIORITY, 868
 - DEFAULT_TIME_TO_LIVE, 868
 - destroy, 859
 - execute, 859, 860
 - getDefaultDestination, 860, 861
 - getDefaultDestinationName, 861
 - getDeliveryMode, 861
 - getPriority, 861
 - getReceiveTimeout, 861
 - getTimeToLive, 861
 - init, 861
 - isExplicitQosEnabled, 862
 - isMessageIdEnabled, 862
 - isMessageTimestampEnabled, 862
 - isNoLocal, 862
 - ProducerExecutor, 868
 - receive, 862, 863
 - RECEIVE_TIMEOUT_INDEFINITE_WAIT, 868
 - RECEIVE_TIMEOUT_NO_WAIT, 868
 - ReceiveExecutor, 868
 - receiveSelected, 863, 864
 - ResolveProducerExecutor, 868
 - ResolveReceiveExecutor, 868
 - send, 864, 865
 - SendExecutor, 868
 - setDefaultDestination, 865
 - setDefaultDestinationName, 865
 - setDeliveryMode, 865
 - setDeliveryPersistent, 866
 - setExplicitQosEnabled, 866
 - setMessageIdEnabled, 866
 - setMessageTimestampEnabled, 867
 - setNoLocal, 867
 - setPriority, 867
 - setPubSubDomain, 867
 - setReceiveTimeout, 867
 - setTimeToLive, 867
- activemq::cmsutil::CmsTemplate::ProducerExecutor, 2101
 - ~ProducerExecutor, 2101
 - action, 2102
 - destination, 2102
 - doInCms, 2101
 - getDestination, 2101
 - parent, 2102
 - ProducerExecutor, 2101
- activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2170
 - ~ReceiveExecutor, 2170
 - destination, 2171
 - doInCms, 2170
 - getDestination, 2171
 - getMessage, 2171
 - message, 2171
 - noLocal, 2171
 - parent, 2171
 - ReceiveExecutor, 2170
 - selector, 2171
- activemq::cmsutil::CmsTemplate::ResolveProducerExecutor, 2224
 - ~ResolveProducerExecutor, 2224
 - getDestination, 2224
 - ResolveProducerExecutor, 2224
- activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor, 2225
 - ~ResolveReceiveExecutor, 2225
 - getDestination, 2225
 - ResolveReceiveExecutor, 2225
- activemq::cmsutil::CmsTemplate::SendExecutor, 2265
 - ~SendExecutor, 2265
 - doInCms, 2265
 - SendExecutor, 2265
- activemq::cmsutil::DestinationResolver, 1209
 - ~DestinationResolver, 1209
 - destroy, 1209
 - init, 1209
 - resolveDestinationName, 1210
- activemq::cmsutil::DynamicDestinationResolver, 1260
 - ~DynamicDestinationResolver, 1260
 - destroy, 1260
 - init, 1260
 - resolveDestinationName, 1261
- activemq::cmsutil::MessageCreator, 1797

- ~MessageCreator, 1797
- createMessage, 1797
- activemq::cmsutil::PooledSession, 2017
 - ~PooledSession, 2019
 - close, 2019
 - commit, 2019
 - createBrowser, 2020
 - createBytesMessage, 2020, 2021
 - createCachedConsumer, 2021
 - createCachedProducer, 2021
 - createConsumer, 2022, 2023
 - createDurableConsumer, 2023
 - createMapMessage, 2024
 - createMessage, 2024
 - createProducer, 2024
 - createQueue, 2025
 - createStreamMessage, 2025
 - createTemporaryQueue, 2025
 - createTemporaryTopic, 2026
 - createTextMessage, 2026
 - createTopic, 2027
 - getAcknowledgeMode, 2027
 - getSession, 2027
 - isTransacted, 2028
 - PooledSession, 2019
 - recover, 2028
 - rollback, 2028
 - unsubscribe, 2029
- activemq::cmsutil::ProducerCallback, 2100
 - ~ProducerCallback, 2100
 - doInCms, 2100
- activemq::cmsutil::ResourceLifecycleManager, 2226
 - ~ResourceLifecycleManager, 2226
 - addConnection, 2227
 - addDestination, 2227
 - addMessageConsumer, 2227
 - addMessageProducer, 2227
 - addSession, 2227
 - destroy, 2227
 - releaseAll, 2228
 - ResourceLifecycleManager, 2226
- activemq::cmsutil::SessionCallback, 2281
 - ~SessionCallback, 2281
 - doInCms, 2281
- activemq::cmsutil::SessionPool, 2314
 - ~SessionPool, 2314
 - getResourceLifecycleManager, 2315
 - returnSession, 2315
 - SessionPool, 2314
 - takeSession, 2315
- activemq::commands, 57
- activemq::commands::ActiveMQBlobMessage, 144
 - ~ActiveMQBlobMessage, 145
 - ActiveMQBlobMessage, 145
 - BINARY_MIME_TYPE, 148
 - clone, 145
 - cloneDataStructure, 145
 - copyDataStructure, 145
 - equals, 146
 - getDataStructureType, 146
 - getMimeType, 146
 - getName, 146
 - getRemoteBlobUrl, 146
 - ID_ACTIVEMQBLOBMESSAGE, 148
 - isDeletedByBroker, 147
 - setDeletedByBroker, 147
 - setMimeType, 147
 - setName, 147
 - setRemoteBlobUrl, 147
 - toString, 147
- activemq::commands::ActiveMQBytesMessage, 161
 - ~ActiveMQBytesMessage, 164
 - ActiveMQBytesMessage, 164
 - checkWriteOnlyBody, 164
 - clearBody, 164
 - clone, 164
 - cloneDataStructure, 164
 - copyDataStructure, 164
 - equals, 165
 - getBodyBytes, 165
 - getBodyLength, 165
 - getDataStructureType, 165
 - ID_ACTIVEMQBYTESMESSAGE, 175
 - readBoolean, 166
 - readByte, 166
 - readBytes, 166, 167
 - readChar, 167
 - readDouble, 168
 - readFloat, 168
 - readInt, 168
 - readLong, 168
 - readShort, 169
 - readString, 169
 - readUnsignedShort, 169
 - readUTF, 170
 - reset, 170
 - setBodyBytes, 170
 - toString, 170
 - writeBoolean, 171
 - writeByte, 171
 - writeBytes, 171, 172
 - writeChar, 172
 - writeDouble, 172
 - writeFloat, 172
 - writeInt, 173

- writeLong, 173
- writeShort, 173
- writeString, 174
- writeUnsignedShort, 174
- writeUTF, 174
- activemq::commands::ActiveMQDestination, 227
 - ~ActiveMQDestination, 229
 - ActiveMQDestination, 229
 - advisory, 236
 - ADVISORY_PREFIX, 236
 - cloneDataStructure, 229
 - COMPOSITE_SEPARATOR, 236
 - CONNECTION_ADVISORY_PREFIX, 236
 - CONSUMER_ADVISORY_PREFIX, 236
 - copyDataStructure, 230
 - createDestination, 230
 - createTemporaryName, 230
 - DEFAULT_ORDERED_TARGET, 236
 - equals, 230
 - exclusive, 236
 - getClientId, 231
 - getCMSDestination, 231
 - getDataStructureType, 231
 - getDestinationType, 232
 - getOptions, 232
 - getOrderedTarget, 232
 - getPhysicalName, 232
 - ID_ACTIVEMQDESTINATION, 237
 - isAdvisory, 232
 - isComposite, 233
 - isConnectionAdvisory, 233
 - isConsumerAdvisory, 233
 - isExclusive, 233
 - isOrdered, 233
 - isProducerAdvisory, 233
 - isQueue, 234
 - isTemporary, 234
 - isTopic, 234
 - isWildcard, 234
 - options, 237
 - ordered, 237
 - orderedTarget, 237
 - physicalName, 237
 - PRODUCER_ADVISORY_PREFIX, 237
 - QUEUE_QUALIFIED_PREFIX, 237
 - setAdvisory, 234
 - setExclusive, 234
 - setOrdered, 235
 - setOrderedTarget, 235
 - setPhysicalName, 235
 - TEMP_POSTFIX, 237
 - TEMP_PREFIX, 237
 - TEMP_QUEUE_QUALIFIED_PREFIX, 237
 - TEMP_TOPIC_QUALIFIED_PREFIX, 237
 - TOPIC_QUALIFIED_PREFIX, 237
 - toString, 235
- activemq::commands::ActiveMQDestination::DestinationFilter, 1191
 - ANY_CHILD, 1191
 - ANY_DESCENDENT, 1191
- activemq::commands::ActiveMQMapMessage, 253
 - ~ActiveMQMapMessage, 255
 - ActiveMQMapMessage, 255
 - beforeMarshal, 255
 - checkMapIsUnmarshalled, 256
 - clone, 256
 - cloneDataStructure, 256
 - copyDataStructure, 256
 - equals, 256
 - getBoolean, 257
 - getByte, 257
 - getBytes, 257
 - getChar, 258
 - getDataStructureType, 258
 - getDouble, 258
 - getFloat, 258
 - getInt, 259
 - getLong, 259
 - getMap, 259
 - getMapNames, 259
 - getShort, 260
 - getString, 260
 - ID_ACTIVEMQMAPMESSAGE, 264
 - isMarshalAware, 260
 - itemExists, 261
 - setBoolean, 261
 - setByte, 261
 - setBytes, 262
 - setChar, 262
 - setDouble, 262
 - setFloat, 262
 - setInt, 263
 - setLong, 263
 - setShort, 263
 - setString, 264
 - toString, 264
- activemq::commands::ActiveMQMessage, 277
 - ~ActiveMQMessage, 277
 - ActiveMQMessage, 277
 - clone, 277
 - cloneDataStructure, 278
 - copyDataStructure, 278
 - equals, 278

- getDataStructureType, 278
- ID_ACTIVEMQMESSAGE, 279
- toString, 278
- activemq::commands::ActiveMQMessageTemplate, 292
 - ~ActiveMQMessageTemplate, 295
 - acknowledge, 295
 - ActiveMQMessageTemplate, 295
 - checkReadOnlyBody, 295
 - checkReadOnlyProperties, 295
 - clearBody, 295
 - clearProperties, 296
 - getBooleanProperty, 296
 - getByteProperty, 296
 - getCMSCorrelationID, 296
 - getCMSDeliveryMode, 297
 - getCMSDestination, 297
 - getCMSExpiration, 297
 - getCMSMessageID, 297
 - getCMSPriority, 298
 - getCMSRedelivered, 298
 - getCMSReplyTo, 298
 - getCMSTimestamp, 299
 - getCMSType, 299
 - getDoubleProperty, 299
 - getFloatProperty, 299
 - getIntProperty, 300
 - getLongProperty, 300
 - getPropertyNames, 300
 - getShortProperty, 301
 - getStringProperty, 301
 - propertyExists, 301
 - setBooleanProperty, 302
 - setByteProperty, 302
 - setCMSCorrelationID, 302
 - setCMSDeliveryMode, 302
 - setCMSDestination, 303
 - setCMSExpiration, 303
 - setCMSMessageID, 303
 - setCMSPriority, 304
 - setCMSRedelivered, 304
 - setCMSReplyTo, 304
 - setCMSTimestamp, 304
 - setCMSType, 305
 - setDoubleProperty, 305
 - setFloatProperty, 305
 - setIntProperty, 306
 - setLongProperty, 306
 - setShortProperty, 306
 - setStringProperty, 307
- activemq::commands::ActiveMQObjectMessage, 308
 - ~ActiveMQObjectMessage, 309
 - ActiveMQObjectMessage, 309
 - clone, 309
 - cloneDataStructure, 309
 - copyDataStructure, 309
 - equals, 309
 - getDataStructureType, 310
 - ID_ACTIVEMQOBJECTMESSAGE, 310
 - toString, 310
- activemq::commands::ActiveMQQueue, 335
 - ~ActiveMQQueue, 336
 - ActiveMQQueue, 336
 - clone, 336
 - cloneDataStructure, 336
 - copy, 336
 - copyDataStructure, 336
 - equals, 336
 - getCMSDestination, 337
 - getCMSProperties, 337
 - getDataStructureType, 337
 - getDestinationType, 337
 - getQueueName, 338
 - ID_ACTIVEMQQUEUE, 338
 - toString, 338
- activemq::commands::ActiveMQStreamMessage, 371
 - ~ActiveMQStreamMessage, 374
 - ActiveMQStreamMessage, 374
 - beforeMarshal, 374
 - checkListIsUnmarshalled, 374
 - checkWriteOnlyBody, 374
 - clearBody, 374
 - clone, 374
 - cloneDataStructure, 375
 - copyDataStructure, 375
 - equals, 375
 - getDataStructureType, 375
 - getList, 375, 376
 - ID_ACTIVEMQSTREAMMESSAGE, 384
 - isMarshalAware, 376
 - readBoolean, 376
 - readByte, 376
 - readBytes, 377
 - readChar, 378
 - readDouble, 378
 - readFloat, 378
 - readInt, 378
 - readLong, 379
 - readShort, 379
 - readString, 379
 - readUnsignedShort, 380
 - reset, 380
 - toString, 380
 - writeBoolean, 380
 - writeByte, 381

- writeBytes, 381
- writeChar, 381
- writeDouble, 382
- writeFloat, 382
- writeInt, 382
- writeLong, 382
- writeShort, 383
- writeString, 383
- writeUnsignedShort, 383
- activemq::commands::ActiveMQTempDestination, 397
 - ~ActiveMQTempDestination, 398
 - ActiveMQTempDestination, 398
 - cloneDataStructure, 398
 - close, 398
 - connection, 400
 - copyDataStructure, 398
 - equals, 398
 - getDataStructureType, 399
 - ID_ACTIVEMQTEMPDESTINATION, 400
 - setConnection, 399
 - toString, 399
- activemq::commands::ActiveMQTempQueue, 413
 - ~ActiveMQTempQueue, 414
 - ActiveMQTempQueue, 414
 - clone, 414
 - cloneDataStructure, 414
 - copy, 414
 - copyDataStructure, 414
 - destroy, 415
 - equals, 415
 - getCMSDestination, 415
 - getCMSProperties, 415
 - getDataStructureType, 416
 - getDestinationType, 416
 - getQueueName, 416
 - ID_ACTIVEMQTEMPQUEUE, 417
 - toString, 416
- activemq::commands::ActiveMQTempTopic, 430
 - ~ActiveMQTempTopic, 431
 - ActiveMQTempTopic, 431
 - clone, 431
 - cloneDataStructure, 431
 - copy, 431
 - copyDataStructure, 431
 - destroy, 432
 - equals, 432
 - getCMSDestination, 432
 - getCMSProperties, 432
 - getDataStructureType, 433
 - getDestinationType, 433
 - getTopicName, 433
 - ID_ACTIVEMQTEMPTOPIC, 434
 - toString, 433
- activemq::commands::ActiveMQTextMessage, 447
 - ~ActiveMQTextMessage, 448
 - ActiveMQTextMessage, 448
 - clone, 448
 - cloneDataStructure, 448
 - copyDataStructure, 448
 - equals, 448
 - getDataStructureType, 449
 - getText, 449
 - ID_ACTIVEMQTEXTMESSAGE, 450
 - setText, 449
 - toString, 449
- activemq::commands::ActiveMQTopic, 463
 - ~ActiveMQTopic, 464
 - ActiveMQTopic, 464
 - clone, 464
 - cloneDataStructure, 464
 - copy, 464
 - copyDataStructure, 464
 - equals, 464
 - getCMSDestination, 465
 - getCMSProperties, 465
 - getDataStructureType, 465
 - getDestinationType, 465
 - getTopicName, 466
 - ID_ACTIVEMQTOPIC, 466
 - toString, 466
- activemq::commands::BaseCommand, 505
 - ~BaseCommand, 506
 - BaseCommand, 506
 - copyDataStructure, 506
 - equals, 506
 - getCommandId, 507
 - isBrokerInfo, 507
 - isConnectionInfo, 507
 - isConsumerInfo, 508
 - isKeepAliveInfo, 508
 - isMessage, 508
 - isMessageAck, 508
 - isMessageDispatch, 508
 - isMessageDispatchNotification, 508
 - isProducerAck, 508
 - isProducerInfo, 509
 - isRemoveInfo, 509
 - isRemoveSubscriptionInfo, 509
 - isResponse, 509
 - isResponseRequired, 509
 - isShutdownInfo, 509
 - isTransactionInfo, 509
 - isWireFormatInfo, 510

- setCommandId, 510
 - setResponseRequired, 510
 - toString, 510
- activemq::commands::BaseDataStructure, 555
 - ~BaseDataStructure, 556
 - afterMarshal, 556
 - afterUnmarshal, 556
 - beforeMarshal, 556
 - beforeUnmarshal, 556
 - copyDataStructure, 556
 - equals, 557
 - getMarshaledForm, 557
 - isMarshalAware, 557
 - setMarshaledForm, 557
 - toString, 558
- activemq::commands::BooleanExpression, 576
 - ~BooleanExpression, 576
 - BooleanExpression, 576
 - cloneDataStructure, 576
 - copyDataStructure, 576
 - equals, 577
 - toString, 577
- activemq::commands::BrokerError, 584
 - ~BrokerError, 585
 - BrokerError, 585
 - cloneDataStructure, 585
 - copyDataStructure, 585
 - getCause, 585
 - getDataStructureType, 586
 - getExceptionClass, 586
 - getMessage, 586
 - getStackTraceElements, 586
 - setCause, 586
 - setExceptionClass, 587
 - setMessage, 587
 - setStackTraceElements, 587
 - visit, 587
- activemq::commands::BrokerError::StackTraceElement
 - 2396
 - ClassName, 2396
 - FileName, 2396
 - LineNumber, 2396
 - MethodName, 2396
- activemq::commands::BrokerId, 590
 - ~BrokerId, 591
 - BrokerId, 591
 - cloneDataStructure, 591
 - COMPARATOR, 591
 - compareTo, 591
 - copyDataStructure, 591
 - equals, 591
 - getDataStructureType, 591
 - getValue, 592
 - ID_BROKERID, 592
 - operator<, 592
 - operator=, 592
 - operator==, 592
 - setValue, 592
 - toString, 592
 - value, 592
- activemq::commands::BrokerInfo, 605
 - ~BrokerInfo, 607
 - brokerId, 612
 - BrokerInfo, 607
 - brokerName, 612
 - brokerUploadUrl, 612
 - brokerURL, 612
 - cloneDataStructure, 607
 - connectionId, 612
 - copyDataStructure, 607
 - duplexConnection, 612
 - equals, 607
 - faultTolerantConfiguration, 612
 - getBrokerId, 607, 608
 - getBrokerName, 608
 - getBrokerUploadUrl, 608
 - getBrokerURL, 608
 - getConnectionId, 608
 - getDataStructureType, 608
 - getNetworkProperties, 608, 609
 - getPeerBrokerInfos, 609
 - ID_BROKERINFO, 612
 - isBrokerInfo, 609
 - isDuplexConnection, 609
 - isFaultTolerantConfiguration, 610
 - isMasterBroker, 610
 - isNetworkConnection, 610
 - isSlaveBroker, 610
 - masterBroker, 612
 - networkConnection, 612
 - networkProperties, 612
 - operator=, 610
 - peerBrokerInfos, 612
 - setBrokerId, 610
 - setBrokerName, 610
 - setBrokerUploadUrl, 610
 - setBrokerURL, 610
 - setConnectionId, 610
 - setDuplexConnection, 610
 - setFaultTolerantConfiguration, 610
 - setMasterBroker, 610
 - setNetworkConnection, 610
 - setNetworkProperties, 610
 - setPeerBrokerInfos, 610
 - setSlaveBroker, 610
 - slaveBroker, 612
 - toString, 610
 - visit, 611

- activemq::commands::Command, 877
 - ~Command, 878
 - getCommandId, 878
 - isBrokerInfo, 878
 - isConnectionInfo, 878
 - isConsumerInfo, 878
 - isKeepAliveInfo, 878
 - isMessage, 878
 - isMessageAck, 878
 - isMessageDispatch, 879
 - isMessageDispatchNotification, 879
 - isProducerAck, 879
 - isProducerInfo, 879
 - isRemoveInfo, 879
 - isRemoveSubscriptionInfo, 879
 - isResponse, 879
 - isResponseRequired, 879
 - isShutdownInfo, 880
 - isTransactionInfo, 880
 - isWireFormatInfo, 880
 - setCommandId, 880
 - setResponseRequired, 880
 - toString, 880
 - visit, 881
- activemq::commands::ConnectionControl, 943
 - ~ConnectionControl, 944
 - cloneDataStructure, 944
 - close, 947
 - ConnectionControl, 944
 - copyDataStructure, 944
 - equals, 944
 - exit, 947
 - faultTolerant, 947
 - getDataStructureType, 945
 - ID_CONNECTIONCONTROL, 947
 - isClose, 945
 - isExit, 946
 - isFaultTolerant, 946
 - isResume, 946
 - isSuspend, 946
 - operator=, 946
 - resume, 947
 - setClose, 946
 - setExit, 946
 - setFaultTolerant, 946
 - setResume, 946
 - setSuspend, 946
 - suspend, 947
 - toString, 946
 - visit, 946
- activemq::commands::ConnectionError, 960
 - ~ConnectionError, 961
 - cloneDataStructure, 961
 - ConnectionError, 961
 - connectionId, 963
 - copyDataStructure, 961
 - equals, 961
 - exception, 963
 - getConnectionId, 961, 962
 - getDataStructureType, 962
 - getException, 962
 - ID_CONNECTIONERROR, 963
 - operator=, 962
 - setConnectionId, 962
 - setException, 962
 - toString, 962
 - visit, 962
- activemq::commands::ConnectionId, 979
 - ~ConnectionId, 980
 - cloneDataStructure, 980
 - COMPARATOR, 980
 - compareTo, 980
 - ConnectionId, 980
 - copyDataStructure, 980
 - equals, 980, 981
 - getDataStructureType, 981
 - getValue, 981
 - ID_CONNECTIONID, 982
 - operator<, 981
 - operator=, 981
 - operator==, 981
 - setValue, 981
 - toString, 981
 - value, 982
- activemq::commands::ConnectionInfo, 995
 - ~ConnectionInfo, 996
 - brokerMasterConnector, 1000
 - brokerPath, 1000
 - clientId, 1000
 - clientMaster, 1000
 - cloneDataStructure, 996
 - connectionId, 1000
 - ConnectionInfo, 996
 - copyDataStructure, 996
 - equals, 997
 - getBrokerPath, 997
 - getClientId, 997
 - getConnectionId, 997
 - getDataStructureType, 997
 - getPassword, 997, 998
 - getUserName, 998
 - ID_CONNECTIONINFO, 1000
 - isBrokerMasterConnector, 998
 - isClientMaster, 998
 - isConnectionInfo, 998
 - isManageable, 998
 - manageable, 1000
 - operator=, 999

- password, 1000
- setBrokerMasterConnector, 999
- setBrokerPath, 999
- setClientId, 999
- setClientMaster, 999
- setConnectionId, 999
- setManageable, 999
- setPassword, 999
- setUserName, 999
- toString, 999
- userName, 1000
- visit, 999
- activemq::commands::ConsumerControl, 1026
 - ~ConsumerControl, 1027
 - cloneDataStructure, 1027
 - close, 1030
 - ConsumerControl, 1027
 - consumerId, 1030
 - copyDataStructure, 1027
 - equals, 1027
 - flush, 1030
 - getConsumerId, 1028
 - getDataStructureType, 1028
 - getPrefetch, 1028
 - ID_CONSUMERCONTROL, 1030
 - isClose, 1029
 - isFlush, 1029
 - isStart, 1029
 - isStop, 1029
 - operator=, 1029
 - prefetch, 1030
 - setClose, 1029
 - setConsumerId, 1029
 - setFlush, 1029
 - setPrefetch, 1029
 - setStart, 1029
 - setStop, 1029
 - start, 1030
 - stop, 1030
 - toString, 1029
 - visit, 1029
- activemq::commands::ConsumerId, 1043
 - ~ConsumerId, 1044
 - cloneDataStructure, 1044
 - COMPARATOR, 1044
 - compareTo, 1044
 - connectionId, 1046
 - ConsumerId, 1044
 - copyDataStructure, 1044
 - equals, 1045
 - getConnectionId, 1045
 - getDataStructureType, 1045
 - getParentId, 1045
 - getSessionId, 1046
 - getValue, 1046
 - ID_CONSUMERID, 1046
 - operator<, 1046
 - operator=, 1046
 - operator==, 1046
 - sessionId, 1046
 - setConnectionId, 1046
 - setSessionId, 1046
 - setValue, 1046
 - toString, 1046
 - value, 1047
- activemq::commands::ConsumerInfo, 1060
 - ~ConsumerInfo, 1062
 - additionalPredicate, 1067
 - brokerPath, 1067
 - browser, 1067
 - cloneDataStructure, 1062
 - consumerId, 1067
 - ConsumerInfo, 1062
 - copyDataStructure, 1062
 - destination, 1067
 - dispatchAsync, 1067
 - equals, 1062
 - exclusive, 1067
 - getAdditionalPredicate, 1063
 - getBrokerPath, 1063
 - getConsumerId, 1063
 - getDataStructureType, 1063
 - getDestination, 1063, 1064
 - getMaximumPendingMessageLimit, 1064
 - getPrefetchSize, 1064
 - getPriority, 1064
 - getSelector, 1064
 - getSubscriptionName, 1064
 - ID_CONSUMERINFO, 1067
 - isBrowser, 1064
 - isConsumerInfo, 1064
 - isDispatchAsync, 1064
 - isExclusive, 1065
 - isNetworkSubscription, 1065
 - isNoLocal, 1065
 - isNoRangeAcks, 1065
 - isOptimizedAcknowledge, 1065
 - isRetroactive, 1065
 - maximumPendingMessageLimit, 1067
 - networkSubscription, 1067
 - noLocal, 1067
 - noRangeAcks, 1067
 - operator=, 1065
 - optimizedAcknowledge, 1067
 - prefetchSize, 1067
 - priority, 1067
 - retroactive, 1067
 - selector, 1067

- setAdditionalPredicate, 1065
- setBrokerPath, 1065
- setBrowser, 1065
- setConsumerId, 1065
- setDestination, 1065
- setDispatchAsync, 1065
- setExclusive, 1065
- setMaximumPendingMessageLimit, 1065
- setNetworkSubscription, 1065
- setNoLocal, 1065
- setNoRangeAcks, 1065
- setOptimizedAcknowledge, 1065
- setPrefetchSize, 1065
- setPriority, 1065
- setRetroactive, 1065
- setSelector, 1065
- setSubscriptionName, 1065
- subscriptionName, 1067
- toString, 1065
- visit, 1066
- activemq::commands::ControlCommand, 1081
 - ~ControlCommand, 1082
 - cloneDataStructure, 1082
 - command, 1084
 - ControlCommand, 1082
 - copyDataStructure, 1082
 - equals, 1082
 - getCommand, 1082, 1083
 - getDataStructureType, 1083
 - ID_ CONTROLCOMMAND, 1084
 - operator=, 1083
 - setCommand, 1083
 - toString, 1083
 - visit, 1083
- activemq::commands::DataArrayResponse, 1099
 - ~DataArrayResponse, 1100
 - cloneDataStructure, 1100
 - copyDataStructure, 1100
 - data, 1101
 - DataArrayResponse, 1100
 - equals, 1100
 - getData, 1100, 1101
 - getDataStructureType, 1101
 - ID_ DATAARRAYRESPONSE, 1101
 - operator=, 1101
 - setData, 1101
 - toString, 1101
- activemq::commands::DataResponse, 1130
 - ~DataResponse, 1131
 - cloneDataStructure, 1131
 - copyDataStructure, 1131
 - data, 1132
 - DataResponse, 1131
 - equals, 1131
 - getData, 1131, 1132
 - getDataStructureType, 1132
 - ID_ DATARESPONSE, 1132
 - operator=, 1132
 - setData, 1132
 - toString, 1132
- activemq::commands::DataStructure, 1172
 - ~DataStructure, 1172
 - cloneDataStructure, 1172
 - copyDataStructure, 1173
 - equals, 1173
 - getDataStructureType, 1174
 - toString, 1175
- activemq::commands::DestinationInfo, 1192
 - ~DestinationInfo, 1193
 - brokerPath, 1196
 - cloneDataStructure, 1193
 - connectionId, 1196
 - copyDataStructure, 1193
 - destination, 1196
 - DestinationInfo, 1193
 - equals, 1193
 - getBrokerPath, 1194
 - getConnectionId, 1194
 - getDataStructureType, 1194
 - getDestination, 1194, 1195
 - getOperationType, 1195
 - getTimeout, 1195
 - ID_ DESTINATIONINFO, 1196
 - operationType, 1196
 - operator=, 1195
 - setBrokerPath, 1195
 - setConnectionId, 1195
 - setDestination, 1195
 - setOperationType, 1195
 - setTimeout, 1195
 - timeout, 1196
 - toString, 1195
 - visit, 1195
- activemq::commands::DiscoveryEvent, 1211
 - ~DiscoveryEvent, 1212
 - brokerName, 1214
 - cloneDataStructure, 1212
 - copyDataStructure, 1212
 - DiscoveryEvent, 1212
 - equals, 1212
 - getBrokerName, 1212, 1213
 - getDataStructureType, 1213
 - getServiceName, 1213
 - ID_ DISCOVERYEVENT, 1214
 - operator=, 1213
 - serviceName, 1214
 - setBrokerName, 1213

- setServiceName, 1213
- toString, 1213
- activemq::commands::ExceptionResponse, 1274
 - ~ExceptionResponse, 1275
 - cloneDataStructure, 1275
 - copyDataStructure, 1275
 - equals, 1275
 - exception, 1276
 - ExceptionResponse, 1275
 - getDataStructureType, 1275
 - getException, 1276
 - ID_EXCEPTIONRESPONSE, 1276
 - operator=, 1276
 - setException, 1276
 - toString, 1276
- activemq::commands::FlushCommand, 1355
 - ~FlushCommand, 1356
 - cloneDataStructure, 1356
 - copyDataStructure, 1356
 - equals, 1356
 - FlushCommand, 1356
 - getDataStructureType, 1356
 - ID_FLUSHCOMMAND, 1357
 - operator=, 1357
 - toString, 1357
 - visit, 1357
- activemq::commands::IntegerResponse, 1440
 - ~IntegerResponse, 1441
 - cloneDataStructure, 1441
 - copyDataStructure, 1441
 - equals, 1441
 - getDataStructureType, 1441
 - getResult, 1442
 - ID_INTEGERRESPONSE, 1442
 - IntegerResponse, 1441
 - operator=, 1442
 - result, 1442
 - setResult, 1442
 - toString, 1442
- activemq::commands::JournalQueueAck, 1489
 - ~JournalQueueAck, 1490
 - cloneDataStructure, 1490
 - copyDataStructure, 1490
 - destination, 1491
 - equals, 1490
 - getDataStructureType, 1490
 - getDestination, 1491
 - getMessageAck, 1491
 - ID_JOURNALQUEUEACK, 1491
 - JournalQueueAck, 1490
 - messageAck, 1491
 - operator=, 1491
 - setDestination, 1491
 - setMessageAck, 1491
 - toString, 1491
- activemq::commands::JournalTopicAck, 1505
 - ~JournalTopicAck, 1506
 - clientId, 1509
 - cloneDataStructure, 1506
 - copyDataStructure, 1506
 - destination, 1509
 - equals, 1506
 - getClientId, 1507
 - getDataStructureType, 1507
 - getDestination, 1507, 1508
 - getMessageId, 1508
 - getMessageSequenceId, 1508
 - getSubscriptionName, 1508
 - getTransactionId, 1508
 - ID_JOURNALTOPICACK, 1509
 - JournalTopicAck, 1506
 - messageId, 1509
 - messageSequenceId, 1509
 - operator=, 1508
 - setClientId, 1508
 - setDestination, 1508
 - setMessageId, 1508
 - setMessageSequenceId, 1508
 - setSubscriptionName, 1508
 - setTransactionId, 1508
 - subscriptionName, 1509
 - toString, 1508
 - transactionId, 1509
- activemq::commands::JournalTrace, 1522
 - ~JournalTrace, 1523
 - cloneDataStructure, 1523
 - copyDataStructure, 1523
 - equals, 1523
 - getDataStructureType, 1523
 - getMessage, 1523, 1524
 - ID_JOURNALTRACE, 1524
 - JournalTrace, 1523
 - message, 1524
 - operator=, 1524
 - setMessage, 1524
 - toString, 1524
- activemq::commands::JournalTransaction, 1537
 - ~JournalTransaction, 1538
 - cloneDataStructure, 1538
 - copyDataStructure, 1538
 - equals, 1538
 - getDataStructureType, 1538
 - getTransactionId, 1539
 - getType, 1539
 - getWasPrepared, 1539
 - ID_JOURNALTRANSACTION, 1540
 - JournalTransaction, 1538
 - operator=, 1539

- setTransactionId, 1539
 - setType, 1539
 - setWasPrepared, 1539
 - toString, 1539
 - transactionId, 1540
 - type, 1540
 - wasPrepared, 1540
- activemq::commands::KeepAliveInfo, 1553
 - ~KeepAliveInfo, 1554
 - cloneDataStructure, 1554
 - copyDataStructure, 1554
 - equals, 1554
 - getDataStructureType, 1554
 - ID_KEEPLIVEINFO, 1555
 - isKeepAliveInfo, 1555
 - KeepAliveInfo, 1554
 - operator=, 1555
 - toString, 1555
 - visit, 1555
- activemq::commands::LastPartialCommand, 1573
 - ~LastPartialCommand, 1574
 - cloneDataStructure, 1574
 - copyDataStructure, 1574
 - equals, 1574
 - getDataStructureType, 1574
 - ID_LASTPARTIALCOMMAND, 1575
 - LastPartialCommand, 1574
 - operator=, 1575
 - toString, 1575
- activemq::commands::LocalTransactionId, 1598
 - ~LocalTransactionId, 1599
 - cloneDataStructure, 1599
 - COMPARATOR, 1599
 - compareTo, 1599
 - connectionId, 1601
 - copyDataStructure, 1599
 - equals, 1599, 1600
 - getConnectionId, 1600
 - getDataStructureType, 1600
 - getValue, 1600
 - ID_LOCALTRANSACTIONID, 1601
 - LocalTransactionId, 1599
 - operator<, 1600
 - operator=, 1600
 - operator==, 1600
 - setConnectionId, 1601
 - setValue, 1601
 - toString, 1601
 - value, 1601
- activemq::commands::Message, 1735
 - ~Message, 1739
 - afterUnmarshal, 1739
 - arrival, 1749
 - beforeMarshal, 1739
 - brokerInTime, 1749
 - brokerOutTime, 1749
 - brokerPath, 1749
 - cloneDataStructure, 1739
 - cluster, 1749
 - compressed, 1749
 - content, 1749
 - copyDataStructure, 1740
 - correlationId, 1749
 - dataStructure, 1749
 - DEFAULT_MESSAGE_SIZE, 1749
 - destination, 1749
 - droppable, 1749
 - equals, 1740
 - expiration, 1749
 - getAckHandler, 1740
 - getArrival, 1740
 - getBrokerInTime, 1741
 - getBrokerOutTime, 1741
 - getBrokerPath, 1741
 - getCluster, 1741
 - getContent, 1741
 - getCorrelationId, 1741
 - getDataStructure, 1741
 - getDataStructureType, 1741
 - getDestination, 1742
 - getExpiration, 1742
 - getGroupID, 1742
 - getGroupSequence, 1742
 - getMarshaledProperties, 1742
 - getMessageId, 1742
 - getMessageProperties, 1742
 - getOriginalDestination, 1743
 - getOriginalTransactionId, 1743
 - getPriority, 1743
 - getProducerId, 1743
 - getRedeliveryCounter, 1743
 - getReplyTo, 1743
 - getSize, 1743
 - getTargetConsumerId, 1743, 1744
 - getTimestamp, 1744
 - getTransactionId, 1744
 - getType, 1744
 - getUserID, 1744
 - groupID, 1749
 - groupSequence, 1749
 - ID_MESSAGE, 1749
 - isCompressed, 1744
 - isDroppable, 1744
 - isExpired, 1744
 - isMarshalAware, 1744
 - isMessage, 1745
 - isPersistent, 1745

- isReadOnlyBody, 1745
- isReadOnlyProperties, 1745
- isRecievedByDFBridge, 1745
- marshalledProperties, 1749
- Message, 1739
- messageId, 1749
- operator=, 1745
- originalDestination, 1749
- originalTransactionId, 1749
- persistent, 1749
- priority, 1749
- producerId, 1749
- recievedByDFBridge, 1749
- redeliveryCounter, 1749
- replyTo, 1749
- setAckHandler, 1745
- setArrival, 1745
- setBrokerInTime, 1746
- setBrokerOutTime, 1746
- setBrokerPath, 1746
- setCluster, 1746
- setCompressed, 1746
- setContent, 1746
- setCorrelationId, 1746
- setDataStructure, 1746
- setDestination, 1746
- setDroppable, 1746
- setExpiration, 1746
- setGroupID, 1746
- setGroupSequence, 1746
- setMarshalledProperties, 1746
- setMessageId, 1746
- setOriginalDestination, 1746
- setOriginalTransactionId, 1746
- setPersistent, 1746
- setPriority, 1746
- setProducerId, 1746
- setReadOnlyBody, 1746
- setReadOnlyProperties, 1747
- setRecievedByDFBridge, 1747
- setRedeliveryCounter, 1747
- setReplyTo, 1747
- setTargetConsumerId, 1747
- setTimestamp, 1747
- setTransactionId, 1747
- setType, 1747
- setUserID, 1747
- targetConsumerId, 1749
- timestamp, 1749
- toString, 1747
- transactionId, 1749
- type, 1749
- userId, 1749
- visit, 1747
- activemq::commands::MessageAck, 1775
 - ~MessageAck, 1776
 - ackType, 1780
 - cloneDataStructure, 1776
 - consumerId, 1780
 - copyDataStructure, 1776
 - destination, 1780
 - equals, 1776
 - firstMessageId, 1780
 - getAckType, 1777
 - getConsumerId, 1777
 - getDataStructureType, 1777
 - getDestination, 1777, 1778
 - getFirstMessageId, 1778
 - getLastMessageId, 1778
 - getMessageCount, 1778
 - getTransactionId, 1778
 - ID_MESSAGEACK, 1780
 - isMessageAck, 1778
 - lastMessageId, 1780
 - MessageAck, 1776
 - messageCount, 1780
 - operator=, 1778
 - setAckType, 1779
 - setConsumerId, 1779
 - setDestination, 1779
 - setFirstMessageId, 1779
 - setLastMessageId, 1779
 - setMessageCount, 1779
 - setTransactionId, 1779
 - toString, 1779
 - transactionId, 1780
 - visit, 1779
- activemq::commands::MessageDispatch, 1798
 - ~MessageDispatch, 1799
 - cloneDataStructure, 1799
 - consumerId, 1802
 - copyDataStructure, 1799
 - destination, 1802
 - equals, 1799
 - getConsumerId, 1800
 - getDataStructureType, 1800
 - getDestination, 1800, 1801
 - getMessage, 1801
 - getRedeliveryCounter, 1801
 - ID_MESSAGEDISPATCH, 1802
 - isMessageDispatch, 1801
 - message, 1802
 - MessageDispatch, 1799
 - operator=, 1801
 - redeliveryCounter, 1802
 - setConsumerId, 1801
 - setDestination, 1801
 - setMessage, 1801

- setRedeliveryCounter, 1801
 - toString, 1801
 - visit, 1802
- activemq::commands::MessageDispatchNotification, 1821
 - ~MessageDispatchNotification, 1822
 - cloneDataStructure, 1822
 - consumerId, 1826
 - copyDataStructure, 1822
 - deliverySequenceId, 1826
 - destination, 1826
 - equals, 1822
 - getConsumerId, 1823
 - getDataStructureType, 1823
 - getDeliverySequenceId, 1823
 - getDestination, 1824
 - getMessageId, 1824
 - ID_MESSAGEDISPATCHNOTIFICATION, 1826
 - isMessageDispatchNotification, 1824
 - MessageDispatchNotification, 1822
 - messageId, 1826
 - operator=, 1824
 - setConsumerId, 1825
 - setDeliverySequenceId, 1825
 - setDestination, 1825
 - setMessageId, 1825
 - toString, 1825
 - visit, 1825
- activemq::commands::MessageId, 1841
 - ~MessageId, 1842
 - brokerSequenceId, 1845
 - cloneDataStructure, 1842
 - COMPARATOR, 1842
 - compareTo, 1842
 - copyDataStructure, 1842
 - equals, 1842
 - getBrokerSequenceId, 1843
 - getDataStructureType, 1843
 - getProducerId, 1843, 1844
 - getProducerSequenceId, 1844
 - ID_MESSAGEID, 1845
 - MessageId, 1842
 - operator<, 1844
 - operator=, 1844
 - operator==, 1844
 - producerId, 1845
 - producerSequenceId, 1845
 - setBrokerSequenceId, 1844
 - setProducerId, 1844
 - setProducerSequenceId, 1844
 - toString, 1844
- activemq::commands::MessagePull, 1891
 - ~MessagePull, 1892
 - cloneDataStructure, 1892
 - consumerId, 1895
 - copyDataStructure, 1892
 - correlationId, 1895
 - destination, 1895
 - equals, 1892
 - getConsumerId, 1893
 - getCorrelationId, 1893
 - getDataStructureType, 1893
 - getDestination, 1893, 1894
 - getMessageId, 1894
 - getTimeout, 1894
 - ID_MESSAGEPULL, 1895
 - messageId, 1895
 - MessagePull, 1892
 - operator=, 1894
 - setConsumerId, 1894
 - setCorrelationId, 1894
 - setDestination, 1894
 - setMessageId, 1894
 - setTimeout, 1894
 - timeout, 1895
 - toString, 1894
 - visit, 1894
- activemq::commands::NetworkBridgeFilter, 1922
 - ~NetworkBridgeFilter, 1923
 - cloneDataStructure, 1923
 - copyDataStructure, 1923
 - equals, 1923
 - getDataStructureType, 1923
 - getNetworkBrokerId, 1924
 - getNetworkTTL, 1924
 - ID_NETWORKBRIDGEFILTER, 1924
 - NetworkBridgeFilter, 1923
 - networkBrokerId, 1924
 - networkTTL, 1924
 - operator=, 1924
 - setNetworkBrokerId, 1924
 - setNetworkTTL, 1924
 - toString, 1924
- activemq::commands::PartialCommand, 1993
 - ~PartialCommand, 1994
 - cloneDataStructure, 1994
 - commandId, 1996
 - copyDataStructure, 1994
 - data, 1996
 - equals, 1994
 - getCommandId, 1994
 - getData, 1995
 - getDataStructureType, 1995
 - ID_PARTIALCOMMAND, 1996
 - operator=, 1995
 - PartialCommand, 1994

- setCommandId, 1995
- setData, 1995
- toString, 1995
- activemq::commands::ProducerAck, 2084
 - ~ProducerAck, 2085
 - cloneDataStructure, 2085
 - copyDataStructure, 2085
 - equals, 2085
 - getDataStructureType, 2085
 - getProducerId, 2086
 - getSize, 2086
 - ID_PRODUCERACK, 2087
 - isProducerAck, 2086
 - operator=, 2086
 - ProducerAck, 2085
 - producerId, 2087
 - setProducerId, 2086
 - setSize, 2086
 - size, 2087
 - toString, 2086
 - visit, 2086
- activemq::commands::ProducerId, 2103
 - ~ProducerId, 2104
 - cloneDataStructure, 2104
 - COMPARATOR, 2104
 - compareTo, 2104
 - connectionId, 2106
 - copyDataStructure, 2104
 - equals, 2105
 - getConnectionId, 2105
 - getDataStructureType, 2105
 - getParentId, 2105
 - getSessionId, 2106
 - getValue, 2106
 - ID_PRODUCERID, 2106
 - operator<, 2106
 - operator=, 2106
 - operator==, 2106
 - ProducerId, 2104
 - sessionId, 2106
 - setConnectionId, 2106
 - setSessionId, 2106
 - setValue, 2106
 - toString, 2106
 - value, 2107
- activemq::commands::ProducerInfo, 2120
 - ~ProducerInfo, 2121
 - brokerPath, 2124
 - cloneDataStructure, 2121
 - copyDataStructure, 2121
 - destination, 2124
 - dispatchAsync, 2124
 - equals, 2121
 - getBrokerPath, 2122
 - getDataStructureType, 2122
 - getDestination, 2122, 2123
 - getProducerId, 2123
 - getWindowSize, 2123
 - ID_PRODUCERINFO, 2124
 - isDispatchAsync, 2123
 - isProducerInfo, 2123
 - operator=, 2123
 - producerId, 2124
 - ProducerInfo, 2121
 - setBrokerPath, 2123
 - setDestination, 2123
 - setDispatchAsync, 2123
 - setProducerId, 2123
 - setWindowSize, 2123
 - toString, 2123
 - visit, 2124
 - windowSize, 2124
- activemq::commands::RemoveInfo, 2175
 - ~RemoveInfo, 2176
 - cloneDataStructure, 2176
 - copyDataStructure, 2176
 - equals, 2176
 - getDataStructureType, 2176
 - getObjectId, 2177
 - ID_REMOVEINFO, 2178
 - isRemoveInfo, 2177
 - objectId, 2178
 - operator=, 2177
 - RemoveInfo, 2176
 - setObjectId, 2177
 - toString, 2177
 - visit, 2177
- activemq::commands::RemoveSubscriptionInfo, 2191
 - ~RemoveSubscriptionInfo, 2192
 - clientId, 2195
 - cloneDataStructure, 2192
 - connectionId, 2195
 - copyDataStructure, 2192
 - equals, 2192
 - getClientId, 2193
 - getConnectionId, 2193
 - getDataStructureType, 2193
 - getSubscriptionName, 2193, 2194
 - ID_REMOVESUBSCRIPTIONINFO, 2195
 - isRemoveSubscriptionInfo, 2194
 - operator=, 2194
 - RemoveSubscriptionInfo, 2192
 - setClientId, 2194
 - setConnectionId, 2194
 - setSubscriptionName, 2194
 - subscriptionName, 2195

- toString, 2194
- visit, 2194
- activemq::commands::ReplayCommand, 2208
 - ~ReplayCommand, 2209
 - cloneDataStructure, 2209
 - copyDataStructure, 2209
 - equals, 2209
 - firstNakNumber, 2211
 - getDataStructureType, 2209
 - getFirstNakNumber, 2210
 - getLastNakNumber, 2210
 - ID_REPLAYCOMMAND, 2211
 - lastNakNumber, 2211
 - operator=, 2210
 - ReplayCommand, 2209
 - setFirstNakNumber, 2210
 - setLastNakNumber, 2210
 - toString, 2210
 - visit, 2210
- activemq::commands::Response, 2229
 - ~Response, 2230
 - cloneDataStructure, 2230
 - copyDataStructure, 2230
 - correlationId, 2232
 - equals, 2230
 - getCorrelationId, 2231
 - getDataStructureType, 2231
 - ID_RESPONSE, 2232
 - isResponse, 2231
 - operator=, 2231
 - Response, 2230
 - setCorrelationId, 2231
 - toString, 2231
 - visit, 2232
- activemq::commands::SessionId, 2282
 - ~SessionId, 2283
 - cloneDataStructure, 2283
 - COMPARATOR, 2283
 - compareTo, 2283
 - connectionId, 2285
 - copyDataStructure, 2283
 - equals, 2284
 - getConnectionId, 2284
 - getDataStructureType, 2284
 - getParentId, 2284
 - getValue, 2284
 - ID_SESSIONID, 2285
 - operator<, 2284
 - operator=, 2285
 - operator==, 2285
 - SessionId, 2283
 - setConnectionId, 2285
 - setValue, 2285
 - toString, 2285
 - value, 2285
- activemq::commands::SessionInfo, 2298
 - ~SessionInfo, 2299
 - cloneDataStructure, 2299
 - copyDataStructure, 2299
 - equals, 2299
 - getAckMode, 2299
 - getDataStructureType, 2300
 - getSessionId, 2300
 - ID_SESSIONINFO, 2301
 - operator=, 2300
 - sessionId, 2301
 - SessionInfo, 2299
 - setAckMode, 2300
 - setSessionId, 2300
 - toString, 2300
 - visit, 2300
- activemq::commands::ShutdownInfo, 2347
 - ~ShutdownInfo, 2348
 - cloneDataStructure, 2348
 - copyDataStructure, 2348
 - equals, 2348
 - getDataStructureType, 2348
 - ID_SHUTDOWNINFO, 2349
 - isShutdownInfo, 2349
 - operator=, 2349
 - ShutdownInfo, 2348
 - toString, 2349
 - visit, 2349
- activemq::commands::SubscriptionInfo, 2489
 - ~SubscriptionInfo, 2490
 - clientId, 2493
 - cloneDataStructure, 2490
 - copyDataStructure, 2490
 - destination, 2493
 - equals, 2490
 - getClientId, 2491
 - getDataStructureType, 2491
 - getDestination, 2491, 2492
 - getSelector, 2492
 - getSubscriptionName, 2492
 - getSubscribedDestination, 2492
 - ID_SUBSCRIPTIONINFO, 2493
 - operator=, 2492
 - selector, 2493
 - setClientId, 2492
 - setDestination, 2492
 - setSelector, 2492
 - setSubscriptionName, 2492
 - setSubscribedDestination, 2492
 - subscriptionName, 2493
 - subscribedDestination, 2493
 - SubscriptionInfo, 2490
 - toString, 2492

- activemq::commands::TransactionId, 2571
 - ~TransactionId, 2572
 - cloneDataStructure, 2572
 - COMPARATOR, 2571
 - compareTo, 2572
 - copyDataStructure, 2572
 - equals, 2572
 - getDataStructureType, 2573
 - ID_TRANSACTIONID, 2574
 - operator<, 2573
 - operator=, 2573
 - operator==, 2573
 - toString, 2573
 - TransactionId, 2572
- activemq::commands::TransactionInfo, 2587
 - ~TransactionInfo, 2588
 - cloneDataStructure, 2588
 - connectionId, 2590
 - copyDataStructure, 2588
 - equals, 2588
 - getConnectionId, 2588, 2589
 - getDataStructureType, 2589
 - getTransactionId, 2589
 - getType, 2589
 - ID_TRANSACTIONINFO, 2590
 - isTransactionInfo, 2589
 - operator=, 2589
 - setConnectionId, 2590
 - setTransactionId, 2590
 - setType, 2590
 - toString, 2590
 - transactionId, 2590
 - TransactionInfo, 2588
 - type, 2590
 - visit, 2590
- activemq::commands::WireFormatInfo, 2697
 - ~WireFormatInfo, 2699
 - afterUnmarshal, 2699
 - beforeMarshal, 2700
 - cloneDataStructure, 2700
 - copyDataStructure, 2700
 - equals, 2700
 - getCacheSize, 2700
 - getDataStructureType, 2701
 - getMagic, 2701
 - getMarshaledProperties, 2701
 - getMaxInactivityDuration, 2701
 - getMaxInactivityDurationInitialDelay, 2701
 - getProperties, 2702
 - getVersion, 2702
 - ID_WIREFORMATINFO, 2706
 - isCacheEnabled, 2702
 - isMarshalAware, 2702
 - isSizePrefixDisabled, 2703
 - isStackTraceEnabled, 2703
 - isTcpNoDelayEnabled, 2703
 - isTightEncodingEnabled, 2703
 - isValid, 2703
 - isWireFormatInfo, 2703
 - setCacheEnabled, 2704
 - setCacheSize, 2704
 - setMagic, 2704
 - setMarshaledProperties, 2704
 - setMaxInactivityDuration, 2704
 - setMaxInactivityDurationInitialDelay, 2704
 - setProperties, 2705
 - setSizePrefixDisabled, 2705
 - setStackTraceEnabled, 2705
 - setTcpNoDelayEnabled, 2705
 - setTightEncodingEnabled, 2705
 - setVersion, 2705
 - toString, 2706
 - visit, 2706
 - WireFormatInfo, 2699
- activemq::commands::XATransactionId, 2729
 - ~XATransactionId, 2730
 - branchQualifier, 2733
 - cloneDataStructure, 2730
 - COMPARATOR, 2730
 - compareTo, 2730
 - copyDataStructure, 2730
 - equals, 2731
 - formatId, 2733
 - getBranchQualifier, 2731
 - getDataStructureType, 2731
 - getFormatId, 2731
 - getGlobalTransactionId, 2732
 - globalTransactionId, 2733
 - ID_XATRANSACTIONID, 2733
 - operator<, 2732
 - operator=, 2732
 - operator==, 2732
 - setBranchQualifier, 2732
 - setFormatId, 2732
 - setGlobalTransactionId, 2732
 - toString, 2732
 - XATransactionId, 2730
- activemq::core, 59
- activemq::core::ActiveMQAckHandler, 143
 - ~ActiveMQAckHandler, 143
 - acknowledgeMessage, 143
- activemq::core::ActiveMQConnection, 188
 - ~ActiveMQConnection, 190
 - ActiveMQConnection, 190
 - addDispatcher, 191
 - addProducer, 191
 - close, 191
 - createSession, 191

- destroyDestination, 192
- disposeOf, 193
- fire, 193
- getClientID, 193
- getConnectionId, 193
- getConnectionInfo, 194
- getExceptionListener, 194
- getMetaData, 194
- isClosed, 194
- isStarted, 195
- onCommand, 195
- oneway, 195
- onException, 195
- removeDispatcher, 195
- removeProducer, 196
- removeSession, 196
- sendPullRequest, 196
- setExceptionListener, 196
- start, 196
- stop, 197
- syncRequest, 197
- transportInterrupted, 197
- activemq::core::ActiveMQConnectionFactory, 198
 - ~ActiveMQConnectionFactory, 199
 - ActiveMQConnectionFactory, 199
 - createConnection, 199, 200
 - getBrokerURL, 201
 - getPassword, 201
 - getUsername, 201
 - setBrokerURL, 201
 - setPassword, 201
 - setUsername, 202
- activemq::core::ActiveMQConnectionMetaData, 203
 - ~ActiveMQConnectionMetaData, 204
 - ActiveMQConnectionMetaData, 204
 - getCMSMajorVersion, 204
 - getCMSMinorVersion, 204
 - getCMSProviderName, 204
 - getCMSVersion, 205
 - getCMSXPropertyNames, 205
 - getProviderMajorVersion, 205
 - getProviderMinorVersion, 205
 - getProviderVersion, 206
- activemq::core::ActiveMQConnectionSupport, 207
 - ~ActiveMQConnectionSupport, 209
 - ActiveMQConnectionSupport, 208
 - getClientId, 209
 - getCloseTimeout, 209
 - getNextSessionId, 209
 - getNextTempDestinationId, 209
 - getPassword, 209
 - getProducerWindowSize, 210
 - getProperties, 210
 - getSendTimeout, 210
 - getTransport, 210
 - getUsername, 210
 - isAlwaysSyncSend, 211
 - isUseAsyncSend, 211
 - setAlwaysSyncSend, 211
 - setClientId, 211
 - setCloseTimeout, 211
 - setPassword, 211
 - setProducerWindowSize, 212
 - setSendTimeout, 212
 - setUseAsyncSend, 212
 - setUsername, 212
 - shutdownTransport, 212
 - startupTransport, 213
 - transportResumed, 213
- activemq::core::ActiveMQConstants, 214
 - ACK_TYPE_CONSUMED, 215
 - ACK_TYPE_DELIVERED, 215
 - ACK_TYPE_INDIVIDUAL, 215
 - ACK_TYPE_POISON, 215
 - ACK_TYPE_REDELIVERED, 215
 - AckType, 215
 - CONNECTION_ALWAYS_SYNC_SEND, 216
 - CONNECTION_CLOSE_TIMEOUT, 216
 - CONNECTION_PRODUCER_WINDOW_SIZE, 216
 - CONNECTION_SEND_TIMEOUT, 216
 - CONNECTION_USE_ASYNC_SEND, 216
 - CONSUMER_DISPATCH_ASYNC, 215
 - CONSUMER_EXCLUSIVE, 215
 - CONSUMER_NOLOCAL, 215
 - CONSUMER_PREFETCH_SIZE, 215
 - CONSUMER_PRIORITY, 215
 - CONSUMER_RETROACTIVE, 215
 - CONSUMER_SELECTOR, 215
 - CUNSUMER_MAX_PENDING_MSG_LIMIT, 215
 - DESTINATION_ADD_OPERATION, 215
 - DESTINATION_REMOVE_OPERATION, 215
 - DestinationActions, 215
 - DestinationOption, 215
 - NUM_OPTIONS, 215
 - NUM_PARAMS, 216
 - PARAM_CLIENT_ID, 216
 - PARAM_PASSWORD, 216
 - PARAM_USERNAME, 216
 - toDestinationOption, 216
 - toString, 216

- toURIOption, 216
- TRANSACTION_STATE_BEGIN, 216
- TRANSACTION_STATE_-
 - COMMITONEPHASE, 216
- TRANSACTION_STATE_-
 - COMMITTWOPHASE, 216
- TRANSACTION_STATE_END, 216
- TRANSACTION_STATE_FORGET, 216
- TRANSACTION_STATE_PREPARE,
216
- TRANSACTION_STATE_RECOVER,
216
- TRANSACTION_STATE_ROLLBACK,
216
- TransactionState, 215
- URIParam, 216
- activemq::core::ActiveMQConstants::StaticInitializer,
2413
 - ~StaticInitializer, 2413
- destOptionMap, 2413
- destOptions, 2413
- StaticInitializer, 2413
- uriParams, 2413
- uriParamsMap, 2413
- activemq::core::ActiveMQConsumer, 217
 - ~ActiveMQConsumer, 219
 - acknowledge, 219
 - acknowledgeMessage, 219
 - ActiveMQConsumer, 219
 - afterMessageIsConsumed, 219
 - beforeMessageIsConsumed, 220
 - clearMessagesInProgress, 220
 - close, 220
 - commit, 220
 - deliverAcks, 220
 - dequeue, 220
 - dispatch, 221
 - doClose, 221
 - getConsumerId, 221
 - getConsumerInfo, 221
 - getMessageListener, 221
 - getMessageSelector, 222
 - isClosed, 222
 - issynchronizationRegistered, 222
 - iterate, 222
 - receive, 222, 223
 - receiveNoWait, 223
 - rollback, 223
 - setMessageListener, 223
 - setSynchronizationRegistered, 224
 - start, 224
 - stop, 224
- activemq::core::ActiveMQProducer, 323
 - ~ActiveMQProducer, 324
- ActiveMQProducer, 324
 - close, 325
 - getDeliveryMode, 325
 - getDisableMessageID, 325
 - getDisableMessageTimeStamp, 325
 - getPriority, 325
 - getProducerId, 326
 - getProducerInfo, 326
 - getSendTimeout, 326
 - getTimeToLive, 326
 - isClosed, 326
 - onProducerAck, 327
 - send, 327, 328
 - setDeliveryMode, 328
 - setDisableMessageID, 328
 - setDisableMessageTimeStamp, 328
 - setPriority, 329
 - setSendTimeout, 329
 - setTimeToLive, 329
- activemq::core::ActiveMQSession, 351
 - ~ActiveMQSession, 354
 - ActiveMQSession, 354
 - ActiveMQSessionExecutor, 366
 - clearMessagesInProgress, 354
 - close, 354
 - commit, 355
 - createBrowser, 355
 - createBytesMessage, 356
 - createConsumer, 356, 357
 - createDurableConsumer, 357
 - createMapMessage, 358
 - createMessage, 358
 - createProducer, 358
 - createQueue, 358
 - createStreamMessage, 359
 - createTemporaryQueue, 359
 - createTemporaryTopic, 359
 - createTextMessage, 359, 360
 - createTopic, 360
 - deliverAcks, 360
 - dispatch, 360
 - disposeOf, 361
 - doStartTransaction, 361
 - fire, 361
 - getAcknowledgeMode, 362
 - getConnection, 362
 - getExceptionListener, 362
 - getSessionId, 362
 - getSessionInfo, 362
 - isAutoAcknowledge, 363
 - isClientAcknowledge, 363
 - isDupsOkAcknowledge, 363
 - isStarted, 363
 - isTransacted, 363

- oneway, 363
- recover, 363
- redispatch, 364
- rollback, 364
- send, 364
- start, 365
- stop, 365
- syncRequest, 365
- unsubscribe, 365
- wakeup, 365
- activemq::core::ActiveMQSessionExecutor, 367
 - ~ActiveMQSessionExecutor, 368
 - ActiveMQSessionExecutor, 368
 - clear, 368
 - clearMessagesInProgress, 368
 - close, 368
 - execute, 368
 - executeFirst, 368
 - getUnconsumedMessages, 369
 - hasUnconsumedMessages, 369
 - isEmpty, 369
 - isRunning, 369
 - iterate, 369
 - start, 369
 - stop, 369
 - wakeup, 370
- activemq::core::ActiveMQTransactionContext, 479
 - ~ActiveMQTransactionContext, 480
 - ActiveMQTransactionContext, 480
 - addSynchronization, 480
 - begin, 480
 - commit, 480
 - getMaximumRedeliveries, 480
 - getRedeliveryDelay, 481
 - getTransactionId, 481
 - isInTransaction, 481
 - removeSynchronization, 481
 - rollback, 481
- activemq::core::DispatchData, 1227
 - DispatchData, 1227
 - getConsumerId, 1227
 - getMessage, 1227
- activemq::core::Dispatcher, 1228
 - ~Dispatcher, 1228
 - dispatch, 1228
- activemq::core::MessageDispatchChannel, 1803
 - ~MessageDispatchChannel, 1804
 - clear, 1804
 - close, 1804
 - dequeue, 1804
 - dequeueNoWait, 1804
 - enqueue, 1805
 - enqueueFirst, 1805
 - isClosed, 1805
 - isEmpty, 1805
 - isRunning, 1805
 - lock, 1805
 - MessageDispatchChannel, 1804
 - notify, 1806
 - notifyAll, 1806
 - peek, 1806
 - removeAll, 1806
 - size, 1806
 - start, 1807
 - stop, 1807
 - unlock, 1807
 - wait, 1807
- activemq::core::Synchronization, 2514
 - ~Synchronization, 2514
 - afterCommit, 2514
 - afterRollback, 2514
 - beforeEnd, 2514
- activemq::exceptions, 60
- activemq::exceptions::ActiveMQException, 250
 - ~ActiveMQException, 251
 - ActiveMQException, 250, 251
 - clone, 251
 - convertToCMSException, 251
- activemq::exceptions::BrokerException, 588
 - ~BrokerException, 588
 - BrokerException, 588
 - clone, 588
- activemq::io, 61
- activemq::io::LoggingInputStream, 1631
 - ~LoggingInputStream, 1631
 - LoggingInputStream, 1631
 - read, 1631, 1632
- activemq::io::LoggingOutputStream, 1633
 - ~LoggingOutputStream, 1633
 - LoggingOutputStream, 1633
 - write, 1633, 1634
- activemq::library, 62
- activemq::library::ActiveMQCPP, 225
 - ~ActiveMQCPP, 225
 - ActiveMQCPP, 225
 - initializeLibrary, 225, 226
 - operator=, 226
 - shutdownLibrary, 226
- activemq::state, 63
- activemq::state::CommandVisitor, 883
 - ~CommandVisitor, 885
 - processBeginTransaction, 885
 - processBrokerError, 885
 - processBrokerInfo, 885
 - processCommitTransactionOnePhase, 885
 - processCommitTransactionTwoPhase, 885
 - processConnectionControl, 885

- processConnectionError, 886
- processConnectionInfo, 886
- processConsumerControl, 886
- processConsumerInfo, 886
- processControlCommand, 886
- processDestinationInfo, 886
- processEndTransaction, 886
- processFlushCommand, 886
- processForgetTransaction, 887
- processKeepAliveInfo, 887
- processMessage, 887
- processMessageAck, 887
- processMessageDispatch, 887
- processMessageDispatchNotification, 887
- processMessagePull, 887
- processPrepareTransaction, 887
- processProducerAck, 887
- processProducerInfo, 888
- processRecoverTransactions, 888
- processRemoveConnection, 888
- processRemoveConsumer, 888
- processRemoveDestination, 888
- processRemoveInfo, 888
- processRemoveProducer, 888
- processRemoveSession, 888
- processRemoveSubscriptionInfo, 889
- processReplayCommand, 889
- processResponse, 889
- processRollbackTransaction, 889
- processSessionInfo, 889
- processShutdownInfo, 889
- processTransactionInfo, 889
- processWireFormat, 889
- activemq::state::CommandVisitorAdapter, 891
 - ~CommandVisitorAdapter, 894
 - processBeginTransaction, 894
 - processBrokerError, 894
 - processBrokerInfo, 894
 - processCommitTransactionOnePhase, 894
 - processCommitTransactionTwoPhase, 894
 - processConnectionControl, 894
 - processConnectionError, 894
 - processConnectionInfo, 894
 - processConsumerControl, 894
 - processConsumerInfo, 894
 - processControlCommand, 894
 - processDestinationInfo, 894
 - processEndTransaction, 894
 - processFlushCommand, 894
 - processForgetTransaction, 894
 - processKeepAliveInfo, 894
 - processMessage, 894
 - processMessageAck, 894
 - processMessageDispatch, 894
 - processMessageDispatchNotification, 894
 - processMessagePull, 894
 - processPrepareTransaction, 894
 - processProducerAck, 894
 - processProducerInfo, 894
 - processRecoverTransactions, 894
 - processRemoveConnection, 894
 - processRemoveConsumer, 894
 - processRemoveDestination, 894
 - processRemoveInfo, 894
 - processRemoveProducer, 895
 - processRemoveSession, 895
 - processRemoveSubscriptionInfo, 895
 - processReplayCommand, 895
 - processResponse, 895
 - processRollbackTransaction, 895
 - processSessionInfo, 895
 - processShutdownInfo, 895
 - processTransactionInfo, 895
 - processWireFormat, 896
- activemq::state::ConnectionState, 1017
 - ~ConnectionState, 1018
 - addSession, 1018
 - addTempDestination, 1018
 - addTransactionState, 1018
 - checkShutdown, 1018
 - ConnectionState, 1018
 - getInfo, 1018
 - getSessionState, 1018
 - getSessionStates, 1018
 - getTempDestinations, 1018
 - getTransactionState, 1018
 - getTransactionStates, 1018
 - removeSession, 1018
 - removeTempDestination, 1018
 - removeTransactionState, 1018
 - reset, 1019
 - shutdown, 1019
 - toString, 1019
- activemq::state::ConnectionStateTracker, 1020
 - ~ConnectionStateTracker, 1022
 - ConnectionStateTracker, 1022
 - getMaxCacheSize, 1022
 - isRestoreConsumers, 1022
 - isRestoreProducers, 1022
 - isRestoreSessions, 1022
 - isRestoreTransaction, 1022
 - isTrackMessages, 1022
 - isTrackTransactions, 1022
 - processBeginTransaction, 1022
 - processCommitTransactionOnePhase, 1022
 - processCommitTransactionTwoPhase, 1022
 - processConnectionInfo, 1022

- processConsumerInfo, 1023
- processDestinationInfo, 1023
- processEndTransaction, 1023
- processMessage, 1023
- processMessageAck, 1023
- processPrepareTransaction, 1023
- processProducerInfo, 1023
- processRemoveConnection, 1024
- processRemoveConsumer, 1024
- processRemoveDestination, 1024
- processRemoveProducer, 1024
- processRemoveSession, 1024
- processRollbackTransaction, 1024
- processSessionInfo, 1024
- RemoveTransactionAction, 1025
- restore, 1025
- setMaxCacheSize, 1025
- setRestoreConsumers, 1025
- setRestoreProducers, 1025
- setRestoreSessions, 1025
- setRestoreTransaction, 1025
- setTrackMessages, 1025
- setTrackTransactions, 1025
- track, 1025
- trackBack, 1025
- activemq::state::ConsumerState, 1080
 - ~ConsumerState, 1080
 - ConsumerState, 1080
 - getInfo, 1080
 - toString, 1080
- activemq::state::ProducerState, 2137
 - ~ProducerState, 2137
 - getInfo, 2137
 - ProducerState, 2137
 - toString, 2137
- activemq::state::SessionState, 2316
 - ~SessionState, 2317
 - addConsumer, 2317
 - addProducer, 2317
 - checkShutdown, 2317
 - getConsumerState, 2317
 - getConsumerStates, 2317
 - getInfo, 2317
 - getProducerState, 2317
 - getProducerStates, 2317
 - removeConsumer, 2317
 - removeProducer, 2317
 - SessionState, 2317
 - shutdown, 2317
 - toString, 2317
- activemq::state::Tracked, 2570
 - ~Tracked, 2570
 - isWaitingForResponse, 2570
 - onResponse, 2570
 - Tracked, 2570
- activemq::state::TransactionState, 2604
 - ~TransactionState, 2605
 - addCommand, 2605
 - checkShutdown, 2605
 - getCommands, 2605
 - getId, 2605
 - getPreparedResult, 2605
 - isPrepared, 2605
 - setPrepared, 2605
 - setPreparedResult, 2605
 - shutdown, 2605
 - toString, 2605
 - TransactionState, 2605
- activemq::threads, 64
- activemq::threads::CompositeTask, 904
 - ~CompositeTask, 904
 - isPending, 904
- activemq::threads::CompositeTaskRunner, 906
 - ~CompositeTaskRunner, 907
 - addTask, 907
 - CompositeTaskRunner, 907
 - iterate, 907
 - removeTask, 907
 - run, 907
 - shutdown, 907
 - wakeup, 908
- activemq::threads::DedicatedTaskRunner, 1181
 - ~DedicatedTaskRunner, 1181
 - DedicatedTaskRunner, 1181
 - run, 1181
 - shutdown, 1181, 1182
 - wakeup, 1182
- activemq::threads::Task, 2518
 - ~Task, 2518
 - iterate, 2518
- activemq::threads::TaskRunner, 2520
 - ~TaskRunner, 2520
 - shutdown, 2520
 - wakeup, 2520
- activemq::transport, 65
- activemq::transport::AbstractTransportFactory, 141
 - ~AbstractTransportFactory, 141
 - createWireFormat, 141
- activemq::transport::CompositeTransport, 909
 - ~CompositeTransport, 909
 - addURI, 909
 - removeURI, 909
- activemq::transport::correlator, 66
- activemq::transport::correlator::FutureResponse, 1375
 - ~FutureResponse, 1375
 - FutureResponse, 1375

- getResponse, 1375, 1376
- setResponse, 1376
- activemq::transport::correlator::ResponseCorrelator, 2235
 - ~ResponseCorrelator, 2236
 - close, 2236
 - onCommand, 2236
 - oneway, 2236
 - onTransportException, 2237
 - request, 2237
 - ResponseCorrelator, 2236
 - start, 2238
- activemq::transport::DefaultTransportListener, 1183
 - ~DefaultTransportListener, 1183
 - onCommand, 1183
 - onException, 1183
 - transportInterrupted, 1184
 - transportResumed, 1184
- activemq::transport::failover, 67
- activemq::transport::failover::BackupTransport, 499
 - ~BackupTransport, 499
 - BackupTransport, 499
 - getTransport, 499
 - getUri, 500
 - isClosed, 500
 - onException, 500
 - setClosed, 500
 - setTransport, 500
 - setUri, 500
- activemq::transport::failover::BackupTransportPool, 502
 - ~BackupTransportPool, 503
 - BackupTransport, 504
 - BackupTransportPool, 503
 - getBackup, 503
 - getBackupPoolSize, 503
 - isEnabled, 503
 - isPending, 503
 - iterate, 504
 - setBackupPoolSize, 504
 - setEnabled, 504
- activemq::transport::failover::CloseTransportsTask, 839
 - ~CloseTransportsTask, 839
 - add, 839
 - CloseTransportsTask, 839
 - isPending, 839
 - iterate, 839
- activemq::transport::failover::FailoverTransport, 1294
 - ~FailoverTransport, 1296
 - add, 1296
 - addURI, 1296
 - close, 1297
 - FailoverTransport, 1296
 - FailoverTransportListener, 1305
 - getBackOffMultiplier, 1297
 - getBackupPoolSize, 1298
 - getInitialReconnectDelay, 1298
 - getMaxCacheSize, 1298
 - getMaxReconnectAttempts, 1298
 - getMaxReconnectDelay, 1298
 - getReconnectDelay, 1298
 - getRemoteAddress, 1298
 - getTimeout, 1298
 - getTransportListener, 1298
 - handleTransportFailure, 1298
 - isBackup, 1299
 - isClosed, 1299
 - isConnected, 1299
 - isFaultTolerant, 1299
 - isInitialized, 1299
 - isPending, 1300
 - isRandomize, 1300
 - isTrackMessages, 1300
 - isUseExponentialBackOff, 1300
 - iterate, 1300
 - narrow, 1300
 - oneway, 1301
 - reconnect, 1301
 - removeURI, 1301
 - request, 1301, 1302
 - restoreTransport, 1302
 - setBackOffMultiplier, 1303
 - setBackup, 1303
 - setBackupPoolSize, 1303
 - setInitialized, 1303
 - setInitialReconnectDelay, 1303
 - setMaxCacheSize, 1304
 - setMaxReconnectAttempts, 1304
 - setMaxReconnectDelay, 1304
 - setRandomize, 1304
 - setReconnectDelay, 1304
 - setTimeout, 1304
 - setTrackMessages, 1304
 - setTransportListener, 1304
 - setUseExponentialBackOff, 1304
 - setWireFormat, 1304
 - start, 1304
- activemq::transport::failover::FailoverTransportFactory, 1306
 - ~FailoverTransportFactory, 1307
 - create, 1307
 - createComposite, 1307
 - doCreateComposite, 1307

- activemq::transport::failover::FailoverTransportListener, 1309
 - ~FailoverTransportListener, 1310
 - FailoverTransportListener, 1310
 - onCommand, 1310
 - onException, 1310
 - transportInterrupted, 1310
 - transportResumed, 1310
- activemq::transport::failover::URIPool, 2657
 - ~URIPool, 2657
 - addURI, 2658
 - addURIs, 2658
 - getURI, 2658
 - isRandomize, 2658
 - removeURI, 2658
 - setRandomize, 2659
 - URIPool, 2657
- activemq::transport::IOTransport, 1478
 - ~IOTransport, 1480
 - close, 1480
 - getRemoteAddress, 1480
 - getTransportListener, 1480
 - IOTransport, 1479
 - isClosed, 1480
 - isConnected, 1480
 - isFaultTolerant, 1481
 - narrow, 1481
 - oneway, 1481
 - reconnect, 1481
 - request, 1482
 - run, 1482
 - setInputStream, 1483
 - setOutputStream, 1483
 - setTransportListener, 1483
 - setWireFormat, 1483
 - start, 1483
- activemq::transport::logging, 68
- activemq::transport::logging::LoggingTransport, 1635
 - ~LoggingTransport, 1635
 - LoggingTransport, 1635
 - onCommand, 1636
 - oneway, 1636
 - request, 1636
- activemq::transport::mock, 69
- activemq::transport::mock::InternalCommandListener, 1455
 - ~InternalCommandListener, 1455
 - InternalCommandListener, 1455
 - onCommand, 1455
 - run, 1456
 - setResponseBuilder, 1456
 - setTransport, 1456
- activemq::transport::mock::MockTransport, 1908
 - ~MockTransport, 1910
 - close, 1910
 - fireCommand, 1910
 - fireException, 1910
 - getInstance, 1910
 - getNumReceivedMessageBeforeFail, 1911
 - getNumReceivedMessages, 1911
 - getNumSendMessageBeforeFail, 1911
 - getNumSentMessages, 1911
 - getRemoteAddress, 1911
 - getTransportListener, 1911
 - isClosed, 1911
 - isConnected, 1911
 - isFailOnReceiveMessage, 1912
 - isFailOnSendMessage, 1912
 - isFaultTolerant, 1912
 - MockTransport, 1910
 - narrow, 1912
 - oneway, 1912
 - reconnect, 1913
 - request, 1913
 - setFailOnReceiveMessage, 1914
 - setFailOnSendMessage, 1914
 - setNumReceivedMessageBeforeFail, 1914
 - setNumReceivedMessages, 1914
 - setNumSendMessageBeforeFail, 1914
 - setNumSentMessages, 1914
 - setOutgoingListener, 1914
 - setResponseBuilder, 1914
 - setTransportListener, 1915
 - setWireFormat, 1915
 - start, 1915
- activemq::transport::mock::MockTransportFactory, 1916
 - ~MockTransportFactory, 1917
 - create, 1917
 - createComposite, 1917
 - doCreateComposite, 1917
- activemq::transport::mock::ResponseBuilder, 2233
 - ~ResponseBuilder, 2233
 - buildIncomingCommands, 2233
 - buildResponse, 2234
- activemq::transport::tcp, 70
- activemq::transport::tcp::TcpTransport, 2530
 - ~TcpTransport, 2531
 - close, 2531
 - isClosed, 2531
 - isConnected, 2531
 - isFaultTolerant, 2531
 - TcpTransport, 2530, 2531

- activemq::transport::tcp::TcpTransportFactory, 2533
 - ~TcpTransportFactory, 2534
 - create, 2534
 - createComposite, 2534
 - doCreateComposite, 2534
- activemq::transport::Transport, 2606
 - ~Transport, 2607
 - getRemoteAddress, 2607
 - getTransportListener, 2607
 - isClosed, 2607
 - isConnected, 2607
 - isFaultTolerant, 2608
 - narrow, 2608
 - oneway, 2608
 - reconnect, 2609
 - request, 2609, 2610
 - setTransportListener, 2610
 - setWireFormat, 2610
- activemq::transport::TransportFactory, 2612
 - ~TransportFactory, 2612
 - create, 2612
 - createComposite, 2613
- activemq::transport::TransportFilter, 2614
 - ~TransportFilter, 2616
 - close, 2616
 - fire, 2616
 - getRemoteAddress, 2616
 - getTransportListener, 2617
 - isClosed, 2617
 - isConnected, 2617
 - isFaultTolerant, 2617
 - listener, 2621
 - narrow, 2618
 - next, 2621
 - onCommand, 2618
 - oneway, 2618
 - onException, 2619
 - reconnect, 2619
 - request, 2619
 - setTransportListener, 2620
 - setWireFormat, 2620
 - start, 2620
 - TransportFilter, 2616
 - transportInterrupted, 2621
 - transportResumed, 2621
- activemq::transport::TransportListener, 2622
 - ~TransportListener, 2622
 - onCommand, 2622
 - onException, 2623
 - transportInterrupted, 2623
 - transportResumed, 2623
- activemq::transport::TransportRegistry, 2624
 - ~TransportRegistry, 2625
 - findFactory, 2625
 - getInstance, 2625
 - getTransportNames, 2625
 - registerFactory, 2625
 - unregisterFactory, 2626
- activemq::util, 71
- activemq::util::ActiveMQProperties, 330
 - ~ActiveMQProperties, 331
 - clear, 331
 - clone, 331
 - copy, 331
 - getProperties, 331, 332
 - getProperty, 332
 - hasProperty, 332
 - isEmpty, 332
 - remove, 333
 - setProperties, 333
 - setProperty, 333
 - toArray, 333
 - toString, 333
- activemq::util::CompositeData, 902
 - ~CompositeData, 903
 - CompositeData, 903
 - getComponents, 903
 - getFragment, 903
 - getHost, 903
 - getParameters, 903
 - getPath, 903
 - getScheme, 903
 - setComponents, 903
 - setFragment, 903
 - setHost, 903
 - setParameters, 903
 - setPath, 903
 - setScheme, 903
 - toURI, 903
- activemq::util::LongSequenceGenerator, 1683
 - ~LongSequenceGenerator, 1683
 - getLastSequenceId, 1683
 - getNextSequenceId, 1683
 - LongSequenceGenerator, 1683
- activemq::util::MemoryUsage, 1731
 - ~MemoryUsage, 1732
 - decreaseUsage, 1732
 - enqueueUsage, 1732
 - getLimit, 1732
 - getUsage, 1732
 - increaseUsage, 1733
 - isFull, 1733
 - MemoryUsage, 1732
 - setLimit, 1733
 - setUsage, 1733
 - waitForSpace, 1733
- activemq::util::PrimitiveList, 2038

- ~PrimitiveList, 2040
- getBool, 2041
- getByte, 2041
- getByteArray, 2041
- getChar, 2042
- getDouble, 2042
- getFloat, 2043
- getInt, 2043
- getLong, 2043
- getShort, 2044
- getString, 2044
- PrimitiveList, 2040
- setBool, 2044
- setByte, 2045
- setByteArray, 2045
- setChar, 2045
- setDouble, 2046
- setFloat, 2046
- setInt, 2046
- setLong, 2047
- setShort, 2047
- setString, 2047
- toString, 2048
- activemq::util::PrimitiveMap, 2049
 - ~PrimitiveMap, 2051
 - getBool, 2052
 - getByte, 2052
 - getByteArray, 2052
 - getChar, 2053
 - getDouble, 2053
 - getFloat, 2053
 - getInt, 2054
 - getLong, 2054
 - getShort, 2055
 - getString, 2055
 - PrimitiveMap, 2051
 - setBool, 2055
 - setByte, 2056
 - setByteArray, 2056
 - setChar, 2056
 - setDouble, 2056
 - setFloat, 2057
 - setInt, 2057
 - setLong, 2057
 - setShort, 2057
 - setString, 2057
 - toString, 2058
- activemq::util::PrimitiveValueConverter, 2066
 - ~PrimitiveValueConverter, 2066
 - convert, 2066
 - PrimitiveValueConverter, 2066
- activemq::util::PrimitiveValueNode, 2068
 - ~PrimitiveValueNode, 2074
 - BIG_STRING_TYPE, 2072
 - BOOLEAN_TYPE, 2071
 - BYTE_ARRAY_TYPE, 2072
 - BYTE_TYPE, 2072
 - CHAR_TYPE, 2072
 - clear, 2074
 - DOUBLE_TYPE, 2072
 - FLOAT_TYPE, 2072
 - getBool, 2074
 - getByte, 2075
 - getByteArray, 2075
 - getChar, 2075
 - getDouble, 2075
 - getFloat, 2076
 - getInt, 2076
 - getList, 2076
 - getLong, 2076
 - getMap, 2077
 - getShort, 2077
 - getString, 2077
 - getType, 2077
 - getValue, 2078
 - INTEGER_TYPE, 2072
 - LIST_TYPE, 2072
 - LONG_TYPE, 2072
 - MAP_TYPE, 2072
 - NULL_TYPE, 2071
 - operator=, 2078
 - operator==, 2078
 - PrimitiveType, 2071
 - PrimitiveValueNode, 2072–2074
 - setBool, 2078
 - setByte, 2078
 - setByteArray, 2078
 - setChar, 2079
 - setDouble, 2079
 - setFloat, 2079
 - setInt, 2079
 - setList, 2079
 - setLong, 2080
 - setMap, 2080
 - setShort, 2080
 - setString, 2080
 - setValue, 2080
 - SHORT_TYPE, 2072
 - STRING_TYPE, 2072
 - toString, 2080
- activemq::util::PrimitiveValueNode::PrimitiveValue, 2064
 - boolValue, 2065
 - byteArrayValue, 2065
 - byteValue, 2065
 - charValue, 2065
 - doubleValue, 2065
 - floatValue, 2065

- int Value, 2065
- list Value, 2065
- long Value, 2065
- map Value, 2065
- short Value, 2065
- stringValue, 2065
- activemq::util::URISupport, 2660
 - createQueryString, 2660
 - parseComposite, 2660
 - parseQuery, 2661
 - parseURL, 2661
- activemq::util::Usage, 2679
 - ~Usage, 2679
 - decreaseUsage, 2679
 - enqueueUsage, 2679
 - increaseUsage, 2680
 - isFull, 2680
 - waitForSpace, 2680
- activemq::wireformat, 72
- activemq::wireformat::MarshalAware, 1710
 - ~MarshalAware, 1710
 - afterMarshal, 1710
 - afterUnmarshal, 1711
 - beforeMarshal, 1711
 - beforeUnmarshal, 1711
 - getMarshaledForm, 1711
 - isMarshalAware, 1711
 - setMarshaledForm, 1712
- activemq::wireformat::openwire, 73
- activemq::wireformat::openwire::marshal, 74
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 533
 - ~BaseDataStreamMarshaller, 538
 - looseMarshal, 538
 - looseMarshalBrokerError, 539
 - looseMarshalCachedObject, 539
 - looseMarshalLong, 539
 - looseMarshalNestedObject, 540
 - looseMarshalObjectArray, 540
 - looseMarshalString, 540
 - looseUnmarshal, 541
 - looseUnmarshalBrokerError, 541
 - looseUnmarshalByteArray, 541
 - looseUnmarshalCachedObject, 542
 - looseUnmarshalConstByteArray, 542
 - looseUnmarshalLong, 543
 - looseUnmarshalNestedObject, 543
 - looseUnmarshalString, 543
 - readAsciiString, 544
 - tightMarshal1, 544
 - tightMarshal2, 544
 - tightMarshalBrokerError1, 545
 - tightMarshalBrokerError2, 545
 - tightMarshalCachedObject1, 545
 - tightMarshalCachedObject2, 546
 - tightMarshalLong1, 546
 - tightMarshalLong2, 547
 - tightMarshalNestedObject1, 547
 - tightMarshalNestedObject2, 547
 - tightMarshalObjectArray1, 548
 - tightMarshalObjectArray2, 548
 - tightMarshalString1, 549
 - tightMarshalString2, 549
 - tightUnmarshal, 549
 - tightUnmarshalBrokerError, 550
 - tightUnmarshalByteArray, 550
 - tightUnmarshalCachedObject, 551
 - tightUnmarshalConstByteArray, 551
 - tightUnmarshalLong, 551
 - tightUnmarshalNestedObject, 552
 - tightUnmarshalString, 552
 - toHexFromBytes, 553
 - toString, 553
- activemq::wireformat::openwire::marshal::DataStreamMarshaller, 1145
 - ~DataStreamMarshaller, 1146
 - createObject, 1146
 - getDataStructureType, 1149
 - looseMarshal, 1152
 - looseUnmarshal, 1156
 - tightMarshal1, 1160
 - tightMarshal2, 1164
 - tightUnmarshal, 1167
- activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2060
 - ~PrimitiveTypesMarshaller, 2060
 - marshal, 2060
 - marshalPrimitive, 2061
 - marshalPrimitiveList, 2061
 - marshalPrimitiveMap, 2061
 - PrimitiveTypesMarshaller, 2060
 - unmarshal, 2062
 - unmarshalPrimitive, 2062
 - unmarshalPrimitiveList, 2063
 - unmarshalPrimitiveMap, 2063
- activemq::wireformat::openwire::marshal::v1, 75
- activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller, 153
 - ~ActiveMQBlobMessageMarshaller, 154
 - ActiveMQBlobMessageMarshaller, 154
 - createObject, 154
 - getDataStructureType, 154
 - looseMarshal, 154
 - looseUnmarshal, 154
 - tightMarshal1, 155
 - tightMarshal2, 155
 - tightUnmarshal, 156

- activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller, 180
 - ~ActiveMQBytesMessageMarshaller, 181
 - ActiveMQBytesMessageMarshaller, 181
 - createObject, 181
 - getDataStructureType, 181
 - looseMarshal, 181
 - looseUnmarshal, 181
 - tightMarshal1, 182
 - tightMarshal2, 182
 - tightUnmarshal, 183
- activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller, 242
 - ~ActiveMQDestinationMarshaller, 243
 - ActiveMQDestinationMarshaller, 243
 - looseMarshal, 243
 - looseUnmarshal, 243
 - tightMarshal1, 244
 - tightMarshal2, 244
 - tightUnmarshal, 245
- activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller, 269
 - ~ActiveMQMapMessageMarshaller, 270
 - ActiveMQMapMessageMarshaller, 270
 - createObject, 270
 - getDataStructureType, 270
 - looseMarshal, 270
 - looseUnmarshal, 270
 - tightMarshal1, 271
 - tightMarshal2, 271
 - tightUnmarshal, 272
- activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller, 284
 - ~ActiveMQMessageMarshaller, 285
 - ActiveMQMessageMarshaller, 285
 - createObject, 285
 - getDataStructureType, 285
 - looseMarshal, 285
 - looseUnmarshal, 285
 - tightMarshal1, 286
 - tightMarshal2, 286
 - tightUnmarshal, 287
- activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller, 315
 - ~ActiveMQObjectMessageMarshaller, 316
 - ActiveMQObjectMessageMarshaller, 316
 - createObject, 316
 - getDataStructureType, 316
 - looseMarshal, 316
 - looseUnmarshal, 316
 - tightMarshal1, 317
 - tightMarshal2, 317
 - tightUnmarshal, 318
- activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller, 343
 - ~ActiveMQQueueMarshaller, 344
 - ActiveMQQueueMarshaller, 344
 - createObject, 344
 - getDataStructureType, 344
 - looseMarshal, 344
 - looseUnmarshal, 344
 - tightMarshal1, 345
 - tightMarshal2, 345
 - tightUnmarshal, 346
- activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller, 389
 - ~ActiveMQStreamMessageMarshaller, 390
 - ActiveMQStreamMessageMarshaller, 390
 - createObject, 390
 - getDataStructureType, 390
 - looseMarshal, 390
 - looseUnmarshal, 390
 - tightMarshal1, 391
 - tightMarshal2, 391
 - tightUnmarshal, 392
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller, 405
 - ~ActiveMQTempDestinationMarshaller, 406
 - ActiveMQTempDestinationMarshaller, 406
 - looseMarshal, 406
 - looseUnmarshal, 406
 - tightMarshal1, 407
 - tightMarshal2, 407
 - tightUnmarshal, 408
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller, 422
 - ~ActiveMQTempQueueMarshaller, 423
 - ActiveMQTempQueueMarshaller, 423
 - createObject, 423
 - getDataStructureType, 423
 - looseMarshal, 423
 - looseUnmarshal, 423
 - tightMarshal1, 424
 - tightMarshal2, 424
 - tightUnmarshal, 425
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller, 439
 - ~ActiveMQTempTopicMarshaller, 440
 - ActiveMQTempTopicMarshaller, 440
 - createObject, 440
 - getDataStructureType, 440
 - looseMarshal, 440
 - looseUnmarshal, 440
 - tightMarshal1, 441
 - tightMarshal2, 441
 - tightUnmarshal, 442

- activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller, 455
 - ~ActiveMQTextMessageMarshaller, 456
 - ActiveMQTextMessageMarshaller, 456
 - createObject, 456
 - getDataStructureType, 456
 - looseMarshal, 456
 - looseUnmarshal, 456
 - tightMarshal1, 457
 - tightMarshal2, 457
 - tightUnmarshal, 458
- activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller, 471
 - ~ActiveMQTopicMarshaller, 472
 - ActiveMQTopicMarshaller, 472
 - createObject, 472
 - getDataStructureType, 472
 - looseMarshal, 472
 - looseUnmarshal, 472
 - tightMarshal1, 473
 - tightMarshal2, 473
 - tightUnmarshal, 474
- activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller, 519
 - ~BaseCommandMarshaller, 520
 - BaseCommandMarshaller, 520
 - looseMarshal, 520
 - looseUnmarshal, 521
 - tightMarshal1, 522
 - tightMarshal2, 523
 - tightUnmarshal, 524
- activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller, 597
 - ~BrokerIdMarshaller, 598
 - BrokerIdMarshaller, 598
 - createObject, 598
 - getDataStructureType, 598
 - looseMarshal, 598
 - looseUnmarshal, 598
 - tightMarshal1, 599
 - tightMarshal2, 599
 - tightUnmarshal, 600
- activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller, 617
 - ~BrokerInfoMarshaller, 618
 - BrokerInfoMarshaller, 618
 - createObject, 618
 - getDataStructureType, 618
 - looseMarshal, 618
 - looseUnmarshal, 618
 - tightMarshal1, 619
 - tightMarshal2, 619
 - tightUnmarshal, 620
- activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller, 952
 - ~ConnectionControlMarshaller, 953
 - ConnectionControlMarshaller, 953
 - createObject, 953
 - getDataStructureType, 953
 - looseMarshal, 953
 - looseUnmarshal, 953
 - tightMarshal1, 954
 - tightMarshal2, 954
 - tightUnmarshal, 955
- activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller, 968
 - ~ConnectionErrorMarshaller, 969
 - ConnectionErrorMarshaller, 969
 - createObject, 969
 - getDataStructureType, 969
 - looseMarshal, 969
 - looseUnmarshal, 969
 - tightMarshal1, 970
 - tightMarshal2, 970
 - tightUnmarshal, 971
- activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller, 987
 - ~ConnectionIdMarshaller, 988
 - ConnectionIdMarshaller, 988
 - createObject, 988
 - getDataStructureType, 988
 - looseMarshal, 988
 - looseUnmarshal, 988
 - tightMarshal1, 989
 - tightMarshal2, 989
 - tightUnmarshal, 990
- activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller, 1005
 - ~ConnectionInfoMarshaller, 1006
 - ConnectionInfoMarshaller, 1006
 - createObject, 1006
 - getDataStructureType, 1006
 - looseMarshal, 1006
 - looseUnmarshal, 1006
 - tightMarshal1, 1007
 - tightMarshal2, 1007
 - tightUnmarshal, 1008
- activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller, 1035
 - ~ConsumerControlMarshaller, 1036
 - ConsumerControlMarshaller, 1036
 - createObject, 1036
 - getDataStructureType, 1036
 - looseMarshal, 1036
 - looseUnmarshal, 1036
 - tightMarshal1, 1037
 - tightMarshal2, 1037

- tightUnmarshal, 1038
- activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller, 1052
 - ~ConsumerIdMarshaller, 1053
 - ConsumerIdMarshaller, 1053
 - createObject, 1053
 - getDataStructureType, 1053
 - looseMarshal, 1053
 - looseUnmarshal, 1053
 - tightMarshal1, 1054
 - tightMarshal2, 1054
 - tightUnmarshal, 1055
- activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller, 1072
 - ~ConsumerInfoMarshaller, 1073
 - ConsumerInfoMarshaller, 1073
 - createObject, 1073
 - getDataStructureType, 1073
 - looseMarshal, 1073
 - looseUnmarshal, 1073
 - tightMarshal1, 1074
 - tightMarshal2, 1074
 - tightUnmarshal, 1075
- activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller, 1085
 - ~ControlCommandMarshaller, 1086
 - ControlCommandMarshaller, 1086
 - createObject, 1086
 - getDataStructureType, 1086
 - looseMarshal, 1086
 - looseUnmarshal, 1086
 - tightMarshal1, 1087
 - tightMarshal2, 1087
 - tightUnmarshal, 1088
- activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller, 1106
 - ~DataArrayResponseMarshaller, 1107
 - createObject, 1107
 - DataArrayResponseMarshaller, 1107
 - getDataStructureType, 1107
 - looseMarshal, 1107
 - looseUnmarshal, 1108
 - tightMarshal1, 1108
 - tightMarshal2, 1108
 - tightUnmarshal, 1109
- activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller, 1137
 - ~DataResponseMarshaller, 1138
 - createObject, 1138
 - DataResponseMarshaller, 1138
 - getDataStructureType, 1138
 - looseMarshal, 1138
 - looseUnmarshal, 1139
 - tightMarshal1, 1139
- tightMarshal2, 1139
- activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller, 1201
 - ~DestinationInfoMarshaller, 1202
 - createObject, 1202
 - DestinationInfoMarshaller, 1202
 - getDataStructureType, 1202
 - looseMarshal, 1202
 - looseUnmarshal, 1202
 - tightMarshal1, 1203
 - tightMarshal2, 1203
- activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller, 1219
 - ~DiscoveryEventMarshaller, 1220
 - createObject, 1220
 - DiscoveryEventMarshaller, 1220
 - getDataStructureType, 1220
 - looseMarshal, 1220
 - looseUnmarshal, 1220
 - tightMarshal1, 1221
 - tightMarshal2, 1221
- activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller, 1281
 - ~ExceptionResponseMarshaller, 1282
 - createObject, 1282
 - ExceptionResponseMarshaller, 1282
 - getDataStructureType, 1282
 - looseMarshal, 1282
 - looseUnmarshal, 1283
 - tightMarshal1, 1283
 - tightMarshal2, 1283
- activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller, 1358
 - ~FlushCommandMarshaller, 1359
 - createObject, 1359
 - FlushCommandMarshaller, 1359
 - getDataStructureType, 1359
 - looseMarshal, 1359
 - looseUnmarshal, 1359
 - tightMarshal1, 1360
 - tightMarshal2, 1360
- activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller, 1447
 - ~IntegerResponseMarshaller, 1448
 - createObject, 1448
 - getDataStructureType, 1448
 - IntegerResponseMarshaller, 1448
 - looseMarshal, 1448
 - looseUnmarshal, 1449

- tightMarshal1, 1449
- tightMarshal2, 1449
- tightUnmarshal, 1450
- activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller, 1497
 - ~JournalQueueAckMarshaller, 1498
 - createObject, 1498
 - getDataStructureType, 1498
 - JournalQueueAckMarshaller, 1498
 - looseMarshal, 1498
 - looseUnmarshal, 1498
 - tightMarshal1, 1499
 - tightMarshal2, 1499
 - tightUnmarshal, 1500
- activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller, 1518
 - ~JournalTopicAckMarshaller, 1519
 - createObject, 1519
 - getDataStructureType, 1519
 - JournalTopicAckMarshaller, 1519
 - looseMarshal, 1519
 - looseUnmarshal, 1519
 - tightMarshal1, 1520
 - tightMarshal2, 1520
 - tightUnmarshal, 1521
- activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller, 1533
 - ~JournalTraceMarshaller, 1534
 - createObject, 1534
 - getDataStructureType, 1534
 - JournalTraceMarshaller, 1534
 - looseMarshal, 1534
 - looseUnmarshal, 1534
 - tightMarshal1, 1535
 - tightMarshal2, 1535
 - tightUnmarshal, 1536
- activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller, 1549
 - ~JournalTransactionMarshaller, 1550
 - createObject, 1550
 - getDataStructureType, 1550
 - JournalTransactionMarshaller, 1550
 - looseMarshal, 1550
 - looseUnmarshal, 1550
 - tightMarshal1, 1551
 - tightMarshal2, 1551
 - tightUnmarshal, 1552
- activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller, 1564
 - ~KeepAliveInfoMarshaller, 1565
 - createObject, 1565
 - getDataStructureType, 1565
 - KeepAliveInfoMarshaller, 1565
 - looseMarshal, 1565
 - looseUnmarshal, 1565
 - tightMarshal1, 1566
 - tightMarshal2, 1566
 - tightUnmarshal, 1567
- activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller, 1580
 - ~LastPartialCommandMarshaller, 1581
 - createObject, 1581
 - getDataStructureType, 1581
 - LastPartialCommandMarshaller, 1581
 - looseMarshal, 1581
 - looseUnmarshal, 1582
 - tightMarshal1, 1582
 - tightMarshal2, 1582
- activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller, 1610
 - ~LocalTransactionIdMarshaller, 1611
 - createObject, 1611
 - getDataStructureType, 1611
 - LocalTransactionIdMarshaller, 1611
 - looseMarshal, 1611
 - looseUnmarshal, 1611
 - tightMarshal1, 1612
 - tightMarshal2, 1612
- activemq::wireformat::openwire::marshal::v1::MarshallerFactory, 1715
 - ~MarshallerFactory, 1715
 - configure, 1715
- activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller, 1789
 - ~MessageAckMarshaller, 1790
 - createObject, 1790
 - getDataStructureType, 1790
 - looseMarshal, 1790
 - looseUnmarshal, 1790
 - MessageAckMarshaller, 1790
 - tightMarshal1, 1791
 - tightMarshal2, 1791
 - tightUnmarshal, 1792
- activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller, 1817
 - ~MessageDispatchMarshaller, 1818
 - createObject, 1818
 - getDataStructureType, 1818
 - looseMarshal, 1818
 - looseUnmarshal, 1818
 - MessageDispatchMarshaller, 1818
 - tightMarshal1, 1819
 - tightMarshal2, 1819
 - tightUnmarshal, 1820
- activemq::wireformat::openwire::marshal::v1::MessageDispatchNotifier, 1831

- ~MessageDispatchNotificationMarshaller, 1832
- createObject, 1832
- getDataStructureType, 1832
- looseMarshal, 1832
- looseUnmarshal, 1832
- MessageDispatchNotificationMarshaller, 1832
- tightMarshal1, 1833
- tightMarshal2, 1833
- tightUnmarshal, 1834
- activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller, 1846
 - ~MessageIdMarshaller, 1847
 - createObject, 1847
 - getDataStructureType, 1847
 - looseMarshal, 1847
 - looseUnmarshal, 1847
 - MessageIdMarshaller, 1847
 - tightMarshal1, 1848
 - tightMarshal2, 1848
 - tightUnmarshal, 1849
- activemq::wireformat::openwire::marshal::v1::MessageMarshaller, 1869
 - ~MessageMarshaller, 1870
 - looseMarshal, 1870
 - looseUnmarshal, 1870
 - MessageMarshaller, 1870
 - tightMarshal1, 1871
 - tightMarshal2, 1871
 - tightUnmarshal, 1872
- activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller, 1904
 - ~MessagePullMarshaller, 1905
 - createObject, 1905
 - getDataStructureType, 1905
 - looseMarshal, 1905
 - looseUnmarshal, 1905
 - MessagePullMarshaller, 1905
 - tightMarshal1, 1906
 - tightMarshal2, 1906
 - tightUnmarshal, 1907
- activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller, 1933
 - ~NetworkBridgeFilterMarshaller, 1934
 - createObject, 1934
 - getDataStructureType, 1934
 - looseMarshal, 1934
 - looseUnmarshal, 1934
 - NetworkBridgeFilterMarshaller, 1934
 - tightMarshal1, 1935
 - tightMarshal2, 1935
 - tightUnmarshal, 1936
- activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller, 2005
 - ~PartialCommandMarshaller, 2006
 - createObject, 2006
 - getDataStructureType, 2006
 - looseMarshal, 2006
 - looseUnmarshal, 2007
 - PartialCommandMarshaller, 2006
 - tightMarshal1, 2007
 - tightMarshal2, 2007
 - tightUnmarshal, 2008
- activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller, 2092
 - ~ProducerAckMarshaller, 2093
 - createObject, 2093
 - getDataStructureType, 2093
 - looseMarshal, 2093
 - looseUnmarshal, 2093
 - ProducerAckMarshaller, 2093
 - tightMarshal1, 2094
 - tightMarshal2, 2094
 - tightUnmarshal, 2095
- activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller, 2116
 - ~ProducerIdMarshaller, 2117
 - createObject, 2117
 - getDataStructureType, 2117
 - looseMarshal, 2117
 - looseUnmarshal, 2117
 - ProducerIdMarshaller, 2117
 - tightMarshal1, 2118
 - tightMarshal2, 2118
 - tightUnmarshal, 2119
- activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller, 2133
 - ~ProducerInfoMarshaller, 2134
 - createObject, 2134
 - getDataStructureType, 2134
 - looseMarshal, 2134
 - looseUnmarshal, 2134
 - ProducerInfoMarshaller, 2134
 - tightMarshal1, 2135
 - tightMarshal2, 2135
 - tightUnmarshal, 2136
- activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller, 2183
 - ~RemoveInfoMarshaller, 2184
 - createObject, 2184
 - getDataStructureType, 2184
 - looseMarshal, 2184
 - looseUnmarshal, 2184
 - RemoveInfoMarshaller, 2184
 - tightMarshal1, 2185
 - tightMarshal2, 2185

- tightUnmarshal, 2186
- activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller, 2204
 - ~RemoveSubscriptionInfoMarshaller, 2205
 - createObject, 2205
 - getDataStructureType, 2205
 - looseMarshal, 2205
 - looseUnmarshal, 2205
 - RemoveSubscriptionInfoMarshaller, 2205
 - tightMarshal1, 2206
 - tightMarshal2, 2206
 - tightUnmarshal, 2207
- activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller, 2220
 - ~ReplayCommandMarshaller, 2221
 - createObject, 2221
 - getDataStructureType, 2221
 - looseMarshal, 2221
 - looseUnmarshal, 2221
 - ReplayCommandMarshaller, 2221
 - tightMarshal1, 2222
 - tightMarshal2, 2222
 - tightUnmarshal, 2223
- activemq::wireformat::openwire::marshal::v1::ResponseInfoMarshaller, 2249
 - ~ResponseMarshaller, 2250
 - createObject, 2250
 - getDataStructureType, 2250
 - looseMarshal, 2250
 - looseUnmarshal, 2251
 - ResponseMarshaller, 2250
 - tightMarshal1, 2251
 - tightMarshal2, 2252
 - tightUnmarshal, 2252
- activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller, 2286
 - ~SessionIdMarshaller, 2287
 - createObject, 2287
 - getDataStructureType, 2287
 - looseMarshal, 2287
 - looseUnmarshal, 2287
 - SessionIdMarshaller, 2287
 - tightMarshal1, 2288
 - tightMarshal2, 2288
 - tightUnmarshal, 2289
- activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller, 2302
 - ~SessionInfoMarshaller, 2303
 - createObject, 2303
 - getDataStructureType, 2303
 - looseMarshal, 2303
 - looseUnmarshal, 2303
 - SessionInfoMarshaller, 2303
 - tightMarshal1, 2304
- tightMarshal2, 2304
- activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller, 2354
 - ~ShutdownInfoMarshaller, 2355
 - createObject, 2355
 - getDataStructureType, 2355
 - looseMarshal, 2355
 - looseUnmarshal, 2355
 - ShutdownInfoMarshaller, 2355
 - tightMarshal1, 2356
 - tightMarshal2, 2356
- activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller, 2494
 - ~SubscriptionInfoMarshaller, 2495
 - createObject, 2495
 - getDataStructureType, 2495
 - looseMarshal, 2495
 - looseUnmarshal, 2495
 - SubscriptionInfoMarshaller, 2495
 - tightMarshal1, 2496
 - tightMarshal2, 2496
- activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller, 2575
 - ~TransactionIdMarshaller, 2576
 - looseMarshal, 2576
 - looseUnmarshal, 2576
 - tightMarshal1, 2577
 - tightMarshal2, 2577
 - tightUnmarshal, 2578
 - TransactionIdMarshaller, 2576
- activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller, 2601
 - ~TransactionInfoMarshaller, 2601
 - createObject, 2601
 - getDataStructureType, 2601
 - looseMarshal, 2601
 - looseUnmarshal, 2601
 - tightMarshal1, 2602
 - tightMarshal2, 2602
 - tightUnmarshal, 2603
 - TransactionInfoMarshaller, 2601
- activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller, 2716
 - ~WireFormatInfoMarshaller, 2716
 - createObject, 2716
 - getDataStructureType, 2716
 - looseMarshal, 2716
 - looseUnmarshal, 2716
 - tightMarshal1, 2717
 - tightMarshal2, 2717
 - tightUnmarshal, 2718

- WireFormatInfoMarshaller, 2716
- activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller, 276
- 2734
- ~XATransactionIdMarshaller, 2735
- createObject, 2735
- getDataStructureType, 2735
- looseMarshal, 2735
- looseUnmarshal, 2735
- tightMarshal1, 2736
- tightMarshal2, 2736
- tightUnmarshal, 2737
- XATransactionIdMarshaller, 2735
- activemq::wireformat::openwire::marshal::v2, 79
- activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller, 157
- ~ActiveMQBlobMessageMarshaller, 158
- ActiveMQBlobMessageMarshaller, 158
- createObject, 158
- getDataStructureType, 158
- looseMarshal, 158
- looseUnmarshal, 158
- tightMarshal1, 159
- tightMarshal2, 159
- tightUnmarshal, 160
- activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller, 184
- ~ActiveMQBytesMessageMarshaller, 185
- ActiveMQBytesMessageMarshaller, 185
- createObject, 185
- getDataStructureType, 185
- looseMarshal, 185
- looseUnmarshal, 185
- tightMarshal1, 186
- tightMarshal2, 186
- tightUnmarshal, 187
- activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller, 246
- ~ActiveMQDestinationMarshaller, 247
- ActiveMQDestinationMarshaller, 247
- looseMarshal, 247
- looseUnmarshal, 247
- tightMarshal1, 248
- tightMarshal2, 248
- tightUnmarshal, 249
- activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller, 273
- ~ActiveMQMapMessageMarshaller, 274
- ActiveMQMapMessageMarshaller, 274
- createObject, 274
- getDataStructureType, 274
- looseMarshal, 274
- looseUnmarshal, 274
- tightMarshal1, 275
- tightMarshal2, 275
- activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller, 288
- ~ActiveMQMessageMarshaller, 289
- ActiveMQMessageMarshaller, 289
- createObject, 289
- getDataStructureType, 289
- looseMarshal, 289
- looseUnmarshal, 289
- tightMarshal1, 290
- tightMarshal2, 290
- tightUnmarshal, 291
- activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller, 320
- ~ActiveMQObjectMessageMarshaller, 320
- ActiveMQObjectMessageMarshaller, 320
- createObject, 320
- getDataStructureType, 320
- looseMarshal, 320
- looseUnmarshal, 320
- tightMarshal1, 321
- tightMarshal2, 321
- tightUnmarshal, 322
- activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMessageMarshaller, 348
- ~ActiveMQQueueMessageMarshaller, 348
- ActiveMQQueueMessageMarshaller, 348
- createObject, 348
- getDataStructureType, 348
- looseMarshal, 348
- looseUnmarshal, 348
- tightMarshal1, 349
- tightMarshal2, 349
- tightUnmarshal, 350
- activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller, 394
- ~ActiveMQStreamMessageMarshaller, 394
- ActiveMQStreamMessageMarshaller, 394
- createObject, 394
- getDataStructureType, 394
- looseMarshal, 394
- looseUnmarshal, 394
- tightMarshal1, 395
- tightMarshal2, 395
- activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller, 410
- ~ActiveMQTempDestinationMarshaller, 410
- ActiveMQTempDestinationMarshaller, 410
- looseMarshal, 410
- looseUnmarshal, 410
- tightMarshal1, 411

- tightMarshal2, 411
- tightUnmarshal, 412
- activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller, 426
 - ~ActiveMQTempQueueMarshaller, 427
 - ActiveMQTempQueueMarshaller, 427
 - createObject, 427
 - getDataStructureType, 427
 - looseMarshal, 427
 - looseUnmarshal, 427
 - tightMarshal1, 428
 - tightMarshal2, 428
 - tightUnmarshal, 429
- activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller, 443
 - ~ActiveMQTempTopicMarshaller, 444
 - ActiveMQTempTopicMarshaller, 444
 - createObject, 444
 - getDataStructureType, 444
 - looseMarshal, 444
 - looseUnmarshal, 444
 - tightMarshal1, 445
 - tightMarshal2, 445
 - tightUnmarshal, 446
- activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller, 459
 - ~ActiveMQTextMessageMarshaller, 460
 - ActiveMQTextMessageMarshaller, 460
 - createObject, 460
 - getDataStructureType, 460
 - looseMarshal, 460
 - looseUnmarshal, 460
 - tightMarshal1, 461
 - tightMarshal2, 461
 - tightUnmarshal, 462
- activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller, 475
 - ~ActiveMQTopicMarshaller, 476
 - ActiveMQTopicMarshaller, 476
 - createObject, 476
 - getDataStructureType, 476
 - looseMarshal, 476
 - looseUnmarshal, 476
 - tightMarshal1, 477
 - tightMarshal2, 477
 - tightUnmarshal, 478
- activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller, 526
 - ~BaseCommandMarshaller, 527
 - BaseCommandMarshaller, 527
 - looseMarshal, 527
 - looseUnmarshal, 528
 - tightMarshal1, 529
 - tightMarshal2, 530
- tightUnmarshal, 531
- activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller, 600
 - ~BrokerIdMarshaller, 602
 - BrokerIdMarshaller, 602
 - createObject, 602
 - getDataStructureType, 602
 - looseMarshal, 602
 - looseUnmarshal, 602
 - tightMarshal1, 603
 - tightMarshal2, 603
 - tightUnmarshal, 604
- activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller, 621
 - ~BrokerInfoMarshaller, 622
 - BrokerInfoMarshaller, 622
 - createObject, 622
 - getDataStructureType, 622
 - looseMarshal, 622
 - looseUnmarshal, 622
 - tightMarshal1, 623
 - tightMarshal2, 623
 - tightUnmarshal, 624
- activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller, 956
 - ~ConnectionControlMarshaller, 957
 - ConnectionControlMarshaller, 957
 - createObject, 957
 - getDataStructureType, 957
 - looseMarshal, 957
 - looseUnmarshal, 957
 - tightMarshal1, 958
 - tightMarshal2, 958
 - tightUnmarshal, 959
- activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller, 972
 - ~ConnectionErrorMarshaller, 973
 - ConnectionErrorMarshaller, 973
 - createObject, 973
 - getDataStructureType, 973
 - looseMarshal, 973
 - looseUnmarshal, 973
 - tightMarshal1, 974
 - tightMarshal2, 974
 - tightUnmarshal, 975
- activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller, 991
 - ~ConnectionIdMarshaller, 992
 - ConnectionIdMarshaller, 992
 - createObject, 992
 - getDataStructureType, 992
 - looseMarshal, 992
 - looseUnmarshal, 992
 - tightMarshal1, 993

- tightMarshal2, 993
- tightUnmarshal, 994
- activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller, 1009
 - ~ConnectionInfoMarshaller, 1010
 - ConnectionInfoMarshaller, 1010
 - createObject, 1010
 - getDataStructureType, 1010
 - looseMarshal, 1010
 - looseUnmarshal, 1010
 - tightMarshal1, 1011
 - tightMarshal2, 1011
 - tightUnmarshal, 1012
- activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller, 1039
 - ~ConsumerControlMarshaller, 1040
 - ConsumerControlMarshaller, 1040
 - createObject, 1040
 - getDataStructureType, 1040
 - looseMarshal, 1040
 - looseUnmarshal, 1040
 - tightMarshal1, 1041
 - tightMarshal2, 1041
 - tightUnmarshal, 1042
- activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller, 1056
 - ~ConsumerIdMarshaller, 1057
 - ConsumerIdMarshaller, 1057
 - createObject, 1057
 - getDataStructureType, 1057
 - looseMarshal, 1057
 - looseUnmarshal, 1057
 - tightMarshal1, 1058
 - tightMarshal2, 1058
 - tightUnmarshal, 1059
- activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller, 1076
 - ~ConsumerInfoMarshaller, 1077
 - ConsumerInfoMarshaller, 1077
 - createObject, 1077
 - getDataStructureType, 1077
 - looseMarshal, 1077
 - looseUnmarshal, 1077
 - tightMarshal1, 1078
 - tightMarshal2, 1078
 - tightUnmarshal, 1079
- activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller, 1093
 - ~ControlCommandMarshaller, 1094
 - ControlCommandMarshaller, 1094
 - createObject, 1094
 - getDataStructureType, 1094
 - looseMarshal, 1094
 - looseUnmarshal, 1094
- tightMarshal1, 1095
- tightMarshal2, 1095
- tightUnmarshal, 1096
- activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller, 1110
 - ~DataArrayResponseMarshaller, 1111
 - createObject, 1111
 - DataArrayResponseMarshaller, 1111
 - getDataStructureType, 1111
 - looseMarshal, 1111
 - looseUnmarshal, 1112
 - tightMarshal1, 1112
 - tightMarshal2, 1112
- activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller, 1141
 - ~DataResponseMarshaller, 1142
 - createObject, 1142
 - DataResponseMarshaller, 1142
 - getDataStructureType, 1142
 - looseMarshal, 1142
 - looseUnmarshal, 1143
 - tightMarshal1, 1143
 - tightMarshal2, 1143
- activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller, 1205
 - ~DestinationInfoMarshaller, 1206
 - createObject, 1206
 - DestinationInfoMarshaller, 1206
 - getDataStructureType, 1206
 - looseMarshal, 1206
 - looseUnmarshal, 1206
 - tightMarshal1, 1207
 - tightMarshal2, 1207
- activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller, 1223
 - ~DiscoveryEventMarshaller, 1224
 - createObject, 1224
 - DiscoveryEventMarshaller, 1224
 - getDataStructureType, 1224
 - looseMarshal, 1224
 - looseUnmarshal, 1224
 - tightMarshal1, 1225
 - tightMarshal2, 1225
- activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller, 1285
 - ~ExceptionResponseMarshaller, 1286
 - createObject, 1286
 - ExceptionResponseMarshaller, 1286
 - getDataStructureType, 1286
 - looseMarshal, 1286

- looseUnmarshal, 1287
- tightMarshal1, 1287
- tightMarshal2, 1287
- tightUnmarshal, 1288
- activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller, 1366
 - ~FlushCommandMarshaller, 1367
 - createObject, 1367
 - FlushCommandMarshaller, 1367
 - getDataStructureType, 1367
 - looseMarshal, 1367
 - looseUnmarshal, 1367
 - tightMarshal1, 1368
 - tightMarshal2, 1368
 - tightUnmarshal, 1369
- activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller, 1443
 - ~IntegerResponseMarshaller, 1444
 - createObject, 1444
 - getDataStructureType, 1444
 - IntegerResponseMarshaller, 1444
 - looseMarshal, 1444
 - looseUnmarshal, 1445
 - tightMarshal1, 1445
 - tightMarshal2, 1445
 - tightUnmarshal, 1446
- activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller, 1493
 - ~JournalQueueAckMarshaller, 1494
 - createObject, 1494
 - getDataStructureType, 1494
 - JournalQueueAckMarshaller, 1494
 - looseMarshal, 1494
 - looseUnmarshal, 1494
 - tightMarshal1, 1495
 - tightMarshal2, 1495
 - tightUnmarshal, 1496
- activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller, 1510
 - ~JournalTopicAckMarshaller, 1511
 - createObject, 1511
 - getDataStructureType, 1511
 - JournalTopicAckMarshaller, 1511
 - looseMarshal, 1511
 - looseUnmarshal, 1511
 - tightMarshal1, 1512
 - tightMarshal2, 1512
 - tightUnmarshal, 1513
- activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller, 1525
 - ~JournalTraceMarshaller, 1526
 - createObject, 1526
 - getDataStructureType, 1526
 - JournalTraceMarshaller, 1526
- looseMarshal, 1526
- looseUnmarshal, 1526
- tightMarshal1, 1527
- tightMarshal2, 1527
- tightUnmarshal, 1528
- activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller, 1541
 - ~JournalTransactionMarshaller, 1542
 - createObject, 1542
 - getDataStructureType, 1542
 - JournalTransactionMarshaller, 1542
 - looseMarshal, 1542
 - looseUnmarshal, 1542
 - tightMarshal1, 1543
 - tightMarshal2, 1543
 - tightUnmarshal, 1544
- activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller, 1560
 - ~KeepAliveInfoMarshaller, 1561
 - createObject, 1561
 - getDataStructureType, 1561
 - KeepAliveInfoMarshaller, 1561
 - looseMarshal, 1561
 - looseUnmarshal, 1561
 - tightMarshal1, 1562
 - tightMarshal2, 1562
 - tightUnmarshal, 1563
- activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller, 1584
 - ~LastPartialCommandMarshaller, 1585
 - createObject, 1585
 - getDataStructureType, 1585
 - LastPartialCommandMarshaller, 1585
 - looseMarshal, 1585
 - looseUnmarshal, 1586
 - tightMarshal1, 1586
 - tightMarshal2, 1586
 - tightUnmarshal, 1587
- activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller, 1602
 - ~LocalTransactionIdMarshaller, 1603
 - createObject, 1603
 - getDataStructureType, 1603
 - LocalTransactionIdMarshaller, 1603
 - looseMarshal, 1603
 - looseUnmarshal, 1603
 - tightMarshal1, 1604
 - tightMarshal2, 1604
 - tightUnmarshal, 1605
- activemq::wireformat::openwire::marshal::v2::MarshallerFactory, 1713
 - ~MarshallerFactory, 1713
 - configure, 1713

- activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller, 1862
 - 1781
 - ~MessageAckMarshaller, 1782
 - createObject, 1782
 - getDataStructureType, 1782
 - looseMarshal, 1782
 - looseUnmarshal, 1782
 - MessageAckMarshaller, 1782
 - tightMarshal1, 1783
 - tightMarshal2, 1783
 - tightUnmarshal, 1784
- activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller, 1809
 - 1809
 - ~MessageDispatchMarshaller, 1810
 - createObject, 1810
 - getDataStructureType, 1810
 - looseMarshal, 1810
 - looseUnmarshal, 1810
 - MessageDispatchMarshaller, 1810
 - tightMarshal1, 1811
 - tightMarshal2, 1811
 - tightUnmarshal, 1812
- activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller, 1827
 - 1827
 - ~MessageDispatchNotificationMarshaller, 1828
 - createObject, 1828
 - getDataStructureType, 1828
 - looseMarshal, 1828
 - looseUnmarshal, 1828
 - MessageDispatchNotificationMarshaller, 1828
 - tightMarshal1, 1829
 - tightMarshal2, 1829
 - tightUnmarshal, 1830
- activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller, 1854
 - 1854
 - ~MessageIdMarshaller, 1855
 - createObject, 1855
 - getDataStructureType, 1855
 - looseMarshal, 1855
 - looseUnmarshal, 1855
 - MessageIdMarshaller, 1855
 - tightMarshal1, 1856
 - tightMarshal2, 1856
 - tightUnmarshal, 1857
- activemq::wireformat::openwire::marshal::v2::MessageMarshaller, 1859
 - 1859
 - ~MessageMarshaller, 1860
 - looseMarshal, 1860
 - looseUnmarshal, 1860
 - MessageMarshaller, 1860
 - tightMarshal1, 1861
 - tightMarshal2, 1861
- activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller, 1896
 - 1896
 - ~MessagePullMarshaller, 1897
 - createObject, 1897
 - getDataStructureType, 1897
 - looseMarshal, 1897
 - looseUnmarshal, 1897
 - MessagePullMarshaller, 1897
 - tightMarshal1, 1898
 - tightMarshal2, 1898
- activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller, 1929
 - 1929
 - ~NetworkBridgeFilterMarshaller, 1930
 - createObject, 1930
 - getDataStructureType, 1930
 - looseMarshal, 1930
 - looseUnmarshal, 1930
 - NetworkBridgeFilterMarshaller, 1930
 - tightMarshal1, 1931
 - tightMarshal2, 1931
- activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller, 1997
 - 1997
 - ~PartialCommandMarshaller, 1998
 - createObject, 1998
 - getDataStructureType, 1998
 - looseMarshal, 1998
 - looseUnmarshal, 1999
 - PartialCommandMarshaller, 1998
 - tightMarshal1, 1999
 - tightMarshal2, 1999
 - tightUnmarshal, 2000
- activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller, 2097
 - 2097
 - ~ProducerAckMarshaller, 2097
 - createObject, 2097
 - getDataStructureType, 2097
 - looseMarshal, 2097
 - looseUnmarshal, 2097
 - ProducerAckMarshaller, 2097
 - tightMarshal1, 2098
 - tightMarshal2, 2098
 - tightUnmarshal, 2099
- activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller, 2109
 - 2109
 - ~ProducerIdMarshaller, 2109
 - createObject, 2109
 - getDataStructureType, 2109
 - looseMarshal, 2109
 - looseUnmarshal, 2109
 - ProducerIdMarshaller, 2109
 - tightMarshal1, 2110

- tightMarshal2, 2110
- tightUnmarshal, 2111
- activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller, 2125
 - ~ProducerInfoMarshaller, 2126
 - createObject, 2126
 - getDataStructureType, 2126
 - looseMarshal, 2126
 - looseUnmarshal, 2126
 - ProducerInfoMarshaller, 2126
 - tightMarshal1, 2127
 - tightMarshal2, 2127
 - tightUnmarshal, 2128
- activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller, 2179
 - ~RemoveInfoMarshaller, 2180
 - createObject, 2180
 - getDataStructureType, 2180
 - looseMarshal, 2180
 - looseUnmarshal, 2180
 - RemoveInfoMarshaller, 2180
 - tightMarshal1, 2181
 - tightMarshal2, 2181
 - tightUnmarshal, 2182
- activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller, 2196
 - ~RemoveSubscriptionInfoMarshaller, 2197
 - createObject, 2197
 - getDataStructureType, 2197
 - looseMarshal, 2197
 - looseUnmarshal, 2197
 - RemoveSubscriptionInfoMarshaller, 2197
 - tightMarshal1, 2198
 - tightMarshal2, 2198
 - tightUnmarshal, 2199
- activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller, 2212
 - ~ReplayCommandMarshaller, 2213
 - createObject, 2213
 - getDataStructureType, 2213
 - looseMarshal, 2213
 - looseUnmarshal, 2213
 - ReplayCommandMarshaller, 2213
 - tightMarshal1, 2214
 - tightMarshal2, 2214
 - tightUnmarshal, 2215
- activemq::wireformat::openwire::marshal::v2::ResponseMarshaller, 2239
 - ~ResponseMarshaller, 2240
 - createObject, 2240
 - getDataStructureType, 2240
 - looseMarshal, 2240
 - looseUnmarshal, 2241
 - ResponseMarshaller, 2240
- tightMarshal1, 2241
- tightMarshal2, 2242
- activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller, 2294
 - ~SessionIdMarshaller, 2295
 - createObject, 2295
 - getDataStructureType, 2295
 - looseMarshal, 2295
 - looseUnmarshal, 2295
 - SessionIdMarshaller, 2295
 - tightMarshal1, 2296
 - tightMarshal2, 2296
- activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller, 2306
 - ~SessionInfoMarshaller, 2307
 - createObject, 2307
 - getDataStructureType, 2307
 - looseMarshal, 2307
 - looseUnmarshal, 2307
 - SessionInfoMarshaller, 2307
 - tightMarshal1, 2308
 - tightMarshal2, 2308
- activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller, 2350
 - ~ShutdownInfoMarshaller, 2351
 - createObject, 2351
 - getDataStructureType, 2351
 - looseMarshal, 2351
 - looseUnmarshal, 2351
 - ShutdownInfoMarshaller, 2351
 - tightMarshal1, 2352
 - tightMarshal2, 2352
- activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller, 2502
 - ~SubscriptionInfoMarshaller, 2503
 - createObject, 2503
 - getDataStructureType, 2503
 - looseMarshal, 2503
 - looseUnmarshal, 2503
 - SubscriptionInfoMarshaller, 2503
 - tightMarshal1, 2504
 - tightMarshal2, 2504
- activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller, 2583
 - ~TransactionIdMarshaller, 2584
 - looseMarshal, 2584
 - looseUnmarshal, 2584
 - tightMarshal1, 2585
 - tightMarshal2, 2585

- tightUnmarshal, 2586
- TransactionIdMarshaller, 2584
- activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller, 2592
- ~TransactionInfoMarshaller, 2593
- createObject, 2593
- getDataStructureType, 2593
- looseMarshal, 2593
- looseUnmarshal, 2593
- tightMarshal1, 2594
- tightMarshal2, 2594
- tightUnmarshal, 2595
- TransactionInfoMarshaller, 2593
- activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller, 2711
- ~WireFormatInfoMarshaller, 2712
- createObject, 2712
- getDataStructureType, 2712
- looseMarshal, 2712
- looseUnmarshal, 2712
- tightMarshal1, 2713
- tightMarshal2, 2713
- tightUnmarshal, 2714
- WireFormatInfoMarshaller, 2712
- activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller, 2742
- ~XATransactionIdMarshaller, 2743
- createObject, 2743
- getDataStructureType, 2743
- looseMarshal, 2743
- looseUnmarshal, 2743
- tightMarshal1, 2744
- tightMarshal2, 2744
- tightUnmarshal, 2745
- XATransactionIdMarshaller, 2743
- activemq::wireformat::openwire::marshal::v3, 83
- activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller, 149
- ~ActiveMQBlobMessageMarshaller, 150
- ActiveMQBlobMessageMarshaller, 150
- createObject, 150
- getDataStructureType, 150
- looseMarshal, 150
- looseUnmarshal, 150
- tightMarshal1, 151
- tightMarshal2, 151
- tightUnmarshal, 152
- activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller, 176
- ~ActiveMQBytesMessageMarshaller, 177
- ActiveMQBytesMessageMarshaller, 177
- createObject, 177
- getDataStructureType, 177
- looseMarshal, 177
- looseUnmarshal, 177
- tightMarshal1, 178
- tightMarshal2, 178
- tightUnmarshal, 179
- activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller, 238
- ~ActiveMQDestinationMarshaller, 239
- ActiveMQDestinationMarshaller, 239
- looseMarshal, 239
- looseUnmarshal, 239
- tightMarshal1, 240
- tightMarshal2, 240
- tightUnmarshal, 241
- activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller, 265
- ~ActiveMQMapMessageMarshaller, 266
- ActiveMQMapMessageMarshaller, 266
- createObject, 266
- getDataStructureType, 266
- looseMarshal, 266
- looseUnmarshal, 266
- tightMarshal1, 267
- tightMarshal2, 267
- tightUnmarshal, 268
- activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller, 280
- ~ActiveMQMessageMarshaller, 281
- ActiveMQMessageMarshaller, 281
- createObject, 281
- getDataStructureType, 281
- looseMarshal, 281
- looseUnmarshal, 281
- tightMarshal1, 282
- tightMarshal2, 282
- tightUnmarshal, 283
- activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller, 312
- ~ActiveMQObjectMessageMarshaller, 312
- ActiveMQObjectMessageMarshaller, 312
- createObject, 312
- getDataStructureType, 312
- looseMarshal, 312
- looseUnmarshal, 312
- tightMarshal1, 313
- tightMarshal2, 313
- tightUnmarshal, 314
- activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMessageMarshaller, 340
- ~ActiveMQQueueMessageMarshaller, 340
- ActiveMQQueueMessageMarshaller, 340
- createObject, 340
- getDataStructureType, 340
- looseMarshal, 340

- looseUnmarshal, 340
- tightMarshal1, 341
- tightMarshal2, 341
- tightUnmarshal, 342
- activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller, 385
 - ~ActiveMQStreamMessageMarshaller, 386
 - ActiveMQStreamMessageMarshaller, 386
 - createObject, 386
 - getDataStructureType, 386
 - looseMarshal, 386
 - looseUnmarshal, 386
 - tightMarshal1, 387
 - tightMarshal2, 387
 - tightUnmarshal, 388
- activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller, 401
 - ~ActiveMQTempDestinationMarshaller, 402
 - ActiveMQTempDestinationMarshaller, 402
 - looseMarshal, 402
 - looseUnmarshal, 402
 - tightMarshal1, 403
 - tightMarshal2, 403
 - tightUnmarshal, 404
- activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller, 418
 - ~ActiveMQTempQueueMarshaller, 419
 - ActiveMQTempQueueMarshaller, 419
 - createObject, 419
 - getDataStructureType, 419
 - looseMarshal, 419
 - looseUnmarshal, 419
 - tightMarshal1, 420
 - tightMarshal2, 420
 - tightUnmarshal, 421
- activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller, 435
 - ~ActiveMQTempTopicMarshaller, 436
 - ActiveMQTempTopicMarshaller, 436
 - createObject, 436
 - getDataStructureType, 436
 - looseMarshal, 436
 - looseUnmarshal, 436
 - tightMarshal1, 437
 - tightMarshal2, 437
 - tightUnmarshal, 438
- activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller, 451
 - ~ActiveMQTextMessageMarshaller, 452
 - ActiveMQTextMessageMarshaller, 452
 - createObject, 452
 - getDataStructureType, 452
 - looseMarshal, 452
- looseUnmarshal, 452
- tightMarshal1, 453
- tightMarshal2, 453
- tightUnmarshal, 454
- activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller, 467
 - ~ActiveMQTopicMarshaller, 468
 - ActiveMQTopicMarshaller, 468
 - createObject, 468
 - getDataStructureType, 468
 - looseMarshal, 468
 - looseUnmarshal, 468
 - tightMarshal1, 469
 - tightMarshal2, 469
 - tightUnmarshal, 470
- activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller, 512
 - ~BaseCommandMarshaller, 513
 - BaseCommandMarshaller, 513
 - looseMarshal, 513
 - looseUnmarshal, 514
 - tightMarshal1, 515
 - tightMarshal2, 516
 - tightUnmarshal, 517
- activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller, 593
 - ~BrokerIdMarshaller, 594
 - BrokerIdMarshaller, 594
 - createObject, 594
 - getDataStructureType, 594
 - looseMarshal, 594
 - looseUnmarshal, 594
 - tightMarshal1, 595
 - tightMarshal2, 595
 - tightUnmarshal, 596
- activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller, 613
 - ~BrokerInfoMarshaller, 614
 - BrokerInfoMarshaller, 614
 - createObject, 614
 - getDataStructureType, 614
 - looseMarshal, 614
 - looseUnmarshal, 614
 - tightMarshal1, 615
 - tightMarshal2, 615
 - tightUnmarshal, 616
- activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller, 948
 - ~ConnectionControlMarshaller, 949
 - ConnectionControlMarshaller, 949
 - createObject, 949
 - getDataStructureType, 949
 - looseMarshal, 949
 - looseUnmarshal, 949

- tightMarshal1, 950
- tightMarshal2, 950
- tightUnmarshal, 951
- activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller, 964
 - ~ConnectionErrorMarshaller, 965
 - ConnectionErrorMarshaller, 965
 - createObject, 965
 - getDataStructureType, 965
 - looseMarshal, 965
 - looseUnmarshal, 965
 - tightMarshal1, 966
 - tightMarshal2, 966
 - tightUnmarshal, 967
- activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller, 983
 - ~ConnectionIdMarshaller, 984
 - ConnectionIdMarshaller, 984
 - createObject, 984
 - getDataStructureType, 984
 - looseMarshal, 984
 - looseUnmarshal, 984
 - tightMarshal1, 985
 - tightMarshal2, 985
 - tightUnmarshal, 986
- activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller, 1001
 - ~ConnectionInfoMarshaller, 1002
 - ConnectionInfoMarshaller, 1002
 - createObject, 1002
 - getDataStructureType, 1002
 - looseMarshal, 1002
 - looseUnmarshal, 1002
 - tightMarshal1, 1003
 - tightMarshal2, 1003
 - tightUnmarshal, 1004
- activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller, 1031
 - ~ConsumerControlMarshaller, 1032
 - ConsumerControlMarshaller, 1032
 - createObject, 1032
 - getDataStructureType, 1032
 - looseMarshal, 1032
 - looseUnmarshal, 1032
 - tightMarshal1, 1033
 - tightMarshal2, 1033
 - tightUnmarshal, 1034
- activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller, 1048
 - ~ConsumerIdMarshaller, 1049
 - ConsumerIdMarshaller, 1049
 - createObject, 1049
 - getDataStructureType, 1049
 - looseMarshal, 1049
 - looseUnmarshal, 1049
 - tightMarshal1, 1050
 - tightMarshal2, 1050
 - tightUnmarshal, 1051
- activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller, 1068
 - ~ConsumerInfoMarshaller, 1069
 - ConsumerInfoMarshaller, 1069
 - createObject, 1069
 - getDataStructureType, 1069
 - looseMarshal, 1069
 - looseUnmarshal, 1069
 - tightMarshal1, 1070
 - tightMarshal2, 1070
 - tightUnmarshal, 1071
- activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller, 1089
 - ~ControlCommandMarshaller, 1090
 - ControlCommandMarshaller, 1090
 - createObject, 1090
 - getDataStructureType, 1090
 - looseMarshal, 1090
 - looseUnmarshal, 1090
 - tightMarshal1, 1091
 - tightMarshal2, 1091
 - tightUnmarshal, 1092
- activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller, 1102
 - ~DataArrayResponseMarshaller, 1103
 - createObject, 1103
 - DataArrayResponseMarshaller, 1103
 - getDataStructureType, 1103
 - looseMarshal, 1103
 - looseUnmarshal, 1104
 - tightMarshal1, 1104
 - tightMarshal2, 1104
 - tightUnmarshal, 1105
- activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller, 1133
 - ~DataResponseMarshaller, 1134
 - createObject, 1134
 - DataResponseMarshaller, 1134
 - getDataStructureType, 1134
 - looseMarshal, 1134
 - looseUnmarshal, 1135
 - tightMarshal1, 1135
 - tightMarshal2, 1135
 - tightUnmarshal, 1136
- activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller, 1197
 - ~DestinationInfoMarshaller, 1198
 - createObject, 1198
 - DestinationInfoMarshaller, 1198
 - getDataStructureType, 1198

- looseMarshal, 1198
- looseUnmarshal, 1198
- tightMarshal1, 1199
- tightMarshal2, 1199
- tightUnmarshal, 1200
- activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller, 1215
 - ~DiscoveryEventMarshaller, 1216
 - createObject, 1216
 - DiscoveryEventMarshaller, 1216
 - getDataStructureType, 1216
 - looseMarshal, 1216
 - looseUnmarshal, 1216
 - tightMarshal1, 1217
 - tightMarshal2, 1217
 - tightUnmarshal, 1218
- activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller, 1277
 - ~ExceptionResponseMarshaller, 1278
 - createObject, 1278
 - ExceptionResponseMarshaller, 1278
 - getDataStructureType, 1278
 - looseMarshal, 1278
 - looseUnmarshal, 1279
 - tightMarshal1, 1279
 - tightMarshal2, 1279
 - tightUnmarshal, 1280
- activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller, 1362
 - ~FlushCommandMarshaller, 1363
 - createObject, 1363
 - FlushCommandMarshaller, 1363
 - getDataStructureType, 1363
 - looseMarshal, 1363
 - looseUnmarshal, 1363
 - tightMarshal1, 1364
 - tightMarshal2, 1364
 - tightUnmarshal, 1365
- activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller, 1451
 - ~IntegerResponseMarshaller, 1452
 - createObject, 1452
 - getDataStructureType, 1452
 - IntegerResponseMarshaller, 1452
 - looseMarshal, 1452
 - looseUnmarshal, 1453
 - tightMarshal1, 1453
 - tightMarshal2, 1453
 - tightUnmarshal, 1454
- activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller, 1501
 - ~JournalQueueAckMarshaller, 1502
 - createObject, 1502
 - getDataStructureType, 1502
- JournalQueueAckMarshaller, 1502
- looseMarshal, 1502
- looseUnmarshal, 1502
- tightMarshal1, 1503
- tightMarshal2, 1503
- activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller, 1514
 - ~JournalTopicAckMarshaller, 1515
 - createObject, 1515
 - getDataStructureType, 1515
 - JournalTopicAckMarshaller, 1515
 - looseMarshal, 1515
 - looseUnmarshal, 1515
 - tightMarshal1, 1516
 - tightMarshal2, 1516
- activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller, 1529
 - ~JournalTraceMarshaller, 1530
 - createObject, 1530
 - getDataStructureType, 1530
 - JournalTraceMarshaller, 1530
 - looseMarshal, 1530
 - looseUnmarshal, 1530
 - tightMarshal1, 1531
 - tightMarshal2, 1531
- activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller, 1545
 - ~JournalTransactionMarshaller, 1546
 - createObject, 1546
 - getDataStructureType, 1546
 - JournalTransactionMarshaller, 1546
 - looseMarshal, 1546
 - looseUnmarshal, 1546
 - tightMarshal1, 1547
 - tightMarshal2, 1547
- activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller, 1556
 - ~KeepAliveInfoMarshaller, 1557
 - createObject, 1557
 - getDataStructureType, 1557
 - KeepAliveInfoMarshaller, 1557
 - looseMarshal, 1557
 - looseUnmarshal, 1557
 - tightMarshal1, 1558
 - tightMarshal2, 1558
- activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller, 1576
 - ~LastPartialCommandMarshaller, 1577
 - createObject, 1577

- getDataStructureType, 1577
 - LastPartialCommandMarshaller, 1577
 - looseMarshal, 1577
 - looseUnmarshal, 1578
 - tightMarshal1, 1578
 - tightMarshal2, 1578
 - tightUnmarshal, 1579
- activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller, 1606
 - ~LocalTransactionIdMarshaller, 1607
 - createObject, 1607
 - getDataStructureType, 1607
 - LocalTransactionIdMarshaller, 1607
 - looseMarshal, 1607
 - looseUnmarshal, 1607
 - tightMarshal1, 1608
 - tightMarshal2, 1608
 - tightUnmarshal, 1609
- activemq::wireformat::openwire::marshal::v3::MarshallerFactory, 1714
 - ~MarshallerFactory, 1714
 - configure, 1714
- activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller, 1785
 - ~MessageAckMarshaller, 1786
 - createObject, 1786
 - getDataStructureType, 1786
 - looseMarshal, 1786
 - looseUnmarshal, 1786
 - MessageAckMarshaller, 1786
 - tightMarshal1, 1787
 - tightMarshal2, 1787
 - tightUnmarshal, 1788
- activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller, 1813
 - ~MessageDispatchMarshaller, 1814
 - createObject, 1814
 - getDataStructureType, 1814
 - looseMarshal, 1814
 - looseUnmarshal, 1814
 - MessageDispatchMarshaller, 1814
 - tightMarshal1, 1815
 - tightMarshal2, 1815
 - tightUnmarshal, 1816
- activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller, 1835
 - ~MessageDispatchNotificationMarshaller, 1836
 - createObject, 1836
 - getDataStructureType, 1836
 - looseMarshal, 1836
 - looseUnmarshal, 1836
 - MessageDispatchNotificationMarshaller, 1836
- tightMarshal1, 1837
 - tightMarshal2, 1837
 - tightUnmarshal, 1838
- activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller, 1850
 - ~MessageIdMarshaller, 1851
 - createObject, 1851
 - getDataStructureType, 1851
 - looseMarshal, 1851
 - looseUnmarshal, 1851
 - MessageIdMarshaller, 1851
 - tightMarshal1, 1852
 - tightMarshal2, 1852
 - tightUnmarshal, 1853
- activemq::wireformat::openwire::marshal::v3::MessageMarshaller, 1864
 - ~MessageMarshaller, 1865
 - looseMarshal, 1865
 - looseUnmarshal, 1865
 - MessageMarshaller, 1865
 - tightMarshal1, 1866
 - tightMarshal2, 1866
 - tightUnmarshal, 1867
- activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller, 1900
 - ~MessagePullMarshaller, 1901
 - createObject, 1901
 - getDataStructureType, 1901
 - looseMarshal, 1901
 - looseUnmarshal, 1901
 - MessagePullMarshaller, 1901
 - tightMarshal1, 1902
 - tightMarshal2, 1902
- activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller, 1925
 - ~NetworkBridgeFilterMarshaller, 1926
 - createObject, 1926
 - getDataStructureType, 1926
 - looseMarshal, 1926
 - looseUnmarshal, 1926
 - NetworkBridgeFilterMarshaller, 1926
 - tightMarshal1, 1927
 - tightMarshal2, 1927
- activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller, 2001
 - ~PartialCommandMarshaller, 2002
 - createObject, 2002
 - getDataStructureType, 2002
 - looseMarshal, 2002
 - looseUnmarshal, 2003
 - PartialCommandMarshaller, 2002
 - tightMarshal1, 2003

- tightMarshal2, 2003
- tightUnmarshal, 2004
- activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller, 2088
 - ~ProducerAckMarshaller, 2089
 - createObject, 2089
 - getDataStructureType, 2089
 - looseMarshal, 2089
 - looseUnmarshal, 2089
 - ProducerAckMarshaller, 2089
 - tightMarshal1, 2090
 - tightMarshal2, 2090
 - tightUnmarshal, 2091
- activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller, 2112
 - ~ProducerIdMarshaller, 2113
 - createObject, 2113
 - getDataStructureType, 2113
 - looseMarshal, 2113
 - looseUnmarshal, 2113
 - ProducerIdMarshaller, 2113
 - tightMarshal1, 2114
 - tightMarshal2, 2114
 - tightUnmarshal, 2115
- activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller, 2129
 - ~ProducerInfoMarshaller, 2130
 - createObject, 2130
 - getDataStructureType, 2130
 - looseMarshal, 2130
 - looseUnmarshal, 2130
 - ProducerInfoMarshaller, 2130
 - tightMarshal1, 2131
 - tightMarshal2, 2131
 - tightUnmarshal, 2132
- activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller, 2187
 - ~RemoveInfoMarshaller, 2188
 - createObject, 2188
 - getDataStructureType, 2188
 - looseMarshal, 2188
 - looseUnmarshal, 2188
 - RemoveInfoMarshaller, 2188
 - tightMarshal1, 2189
 - tightMarshal2, 2189
 - tightUnmarshal, 2190
- activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller, 2200
 - ~RemoveSubscriptionInfoMarshaller, 2201
 - createObject, 2201
 - getDataStructureType, 2201
 - looseMarshal, 2201
 - looseUnmarshal, 2201
 - RemoveSubscriptionInfoMarshaller, 2201
- tightMarshal1, 2202
- tightMarshal2, 2202
- activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller, 2216
 - ~ReplayCommandMarshaller, 2217
 - createObject, 2217
 - getDataStructureType, 2217
 - looseMarshal, 2217
 - looseUnmarshal, 2217
 - ReplayCommandMarshaller, 2217
 - tightMarshal1, 2218
 - tightMarshal2, 2218
- activemq::wireformat::openwire::marshal::v3::ResponseMarshaller, 2244
 - ~ResponseMarshaller, 2245
 - createObject, 2245
 - getDataStructureType, 2245
 - looseMarshal, 2245
 - looseUnmarshal, 2246
 - ResponseMarshaller, 2245
 - tightMarshal1, 2246
 - tightMarshal2, 2247
- activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller, 2290
 - ~SessionIdMarshaller, 2291
 - createObject, 2291
 - getDataStructureType, 2291
 - looseMarshal, 2291
 - looseUnmarshal, 2291
 - SessionIdMarshaller, 2291
 - tightMarshal1, 2292
 - tightMarshal2, 2292
- activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller, 2310
 - ~SessionInfoMarshaller, 2311
 - createObject, 2311
 - getDataStructureType, 2311
 - looseMarshal, 2311
 - looseUnmarshal, 2311
 - SessionInfoMarshaller, 2311
 - tightMarshal1, 2312
 - tightMarshal2, 2312
- activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller, 2358
 - ~ShutdownInfoMarshaller, 2359
 - createObject, 2359
 - getDataStructureType, 2359
 - looseMarshal, 2359
 - looseUnmarshal, 2359

- ShutdownInfoMarshaller, 2359
- tightMarshal1, 2360
- tightMarshal2, 2360
- tightUnmarshal, 2361
- activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller, 2498
 - ~SubscriptionInfoMarshaller, 2499
 - createObject, 2499
 - getDataStructureType, 2499
 - looseMarshal, 2499
 - looseUnmarshal, 2499
 - SubscriptionInfoMarshaller, 2499
 - tightMarshal1, 2500
 - tightMarshal2, 2500
 - tightUnmarshal, 2501
- activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller, 2579
 - ~TransactionIdMarshaller, 2580
 - looseMarshal, 2580
 - looseUnmarshal, 2580
 - tightMarshal1, 2581
 - tightMarshal2, 2581
 - tightUnmarshal, 2582
 - TransactionIdMarshaller, 2580
- activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller, 2596
 - ~TransactionInfoMarshaller, 2597
 - createObject, 2597
 - getDataStructureType, 2597
 - looseMarshal, 2597
 - looseUnmarshal, 2597
 - tightMarshal1, 2598
 - tightMarshal2, 2598
 - tightUnmarshal, 2599
 - TransactionInfoMarshaller, 2597
- activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller, 2707
 - ~WireFormatInfoMarshaller, 2708
 - createObject, 2708
 - getDataStructureType, 2708
 - looseMarshal, 2708
 - looseUnmarshal, 2708
 - tightMarshal1, 2709
 - tightMarshal2, 2709
 - tightUnmarshal, 2710
 - WireFormatInfoMarshaller, 2708
- activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller, 2738
 - ~XATransactionIdMarshaller, 2739
 - createObject, 2739
 - getDataStructureType, 2739
 - looseMarshal, 2739
 - looseUnmarshal, 2739
 - tightMarshal1, 2740
 - tightMarshal2, 2740
 - tightUnmarshal, 2741
 - XATransactionIdMarshaller, 2739
- activemq::wireformat::openwire::OpenWireFormat, 1968
 - ~OpenWireFormat, 1971
 - addMarshaller, 1971
 - createNegotiator, 1971
 - DEFAULT_VERSION, 1979
 - destroyMarshallers, 1971
 - doUnmarshal, 1971
 - getCacheSize, 1972
 - getMaxInactivityDuration, 1972
 - getMaxInactivityDurationInitialDelay, 1972
 - getPreferredWireFormatInfo, 1972
 - getVersion, 1973
 - hasNegotiator, 1973
 - isCacheEnabled, 1973
 - isSizePrefixDisabled, 1973
 - isStackTraceEnabled, 1973
 - isTcpNoDelayEnabled, 1974
 - isTightEncodingEnabled, 1974
 - looseMarshalNestedObject, 1974
 - looseUnmarshalNestedObject, 1974
 - marshal, 1975
 - NULL_TYPE, 1979
 - OpenWireFormat, 1971
 - renegotiateWireFormat, 1975
 - setCacheEnabled, 1975
 - setCacheSize, 1976
 - setMaxInactivityDuration, 1976
 - setMaxInactivityDurationInitialDelay, 1976
 - setPreferredWireFormatInfo, 1976
 - setSizePrefixDisabled, 1976
 - setStackTraceEnabled, 1976
 - setTcpNoDelayEnabled, 1977
 - setTightEncodingEnabled, 1977
 - setVersion, 1977
 - tightMarshalNestedObject1, 1977
 - tightMarshalNestedObject2, 1978
 - tightUnmarshalNestedObject, 1978
 - unmarshal, 1978
- activemq::wireformat::openwire::OpenWireFormatFactory, 1980
 - ~OpenWireFormatFactory, 1980
 - createWireFormat, 1980
 - OpenWireFormatFactory, 1980
- activemq::wireformat::openwire::OpenWireFormatNegotiator, 1982
 - ~OpenWireFormatNegotiator, 1983
 - close, 1983
 - onCommand, 1983

- oneway, 1983
- onTransportException, 1984
- OpenWireFormatNegotiator, 1982
- request, 1984
- start, 1985
- activemq::wireformat::openwire::OpenWireResponseBuilder, 1986
 - ~OpenWireResponseBuilder, 1986
 - buildIncomingCommands, 1986
 - buildResponse, 1986
 - OpenWireResponseBuilder, 1986
- activemq::wireformat::openwire::utils, 87
- activemq::wireformat::openwire::utils::BooleanStream, 578
 - ~BooleanStream, 579
 - BooleanStream, 579
 - clear, 579
 - marshal, 579
 - marshalledSize, 579
 - readBoolean, 579
 - unmarshal, 579
 - writeBoolean, 580
- activemq::wireformat::openwire::utils::HexTable, 1386
 - ~HexTable, 1386
 - HexTable, 1386
 - operator[], 1386
 - size, 1387
- activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1883
 - ~MessagePropertyInterceptor, 1885
 - getBooleanProperty, 1885
 - getByteProperty, 1885
 - getDoubleProperty, 1885
 - getFloatProperty, 1886
 - getIntProperty, 1886
 - getLongProperty, 1886
 - getShortProperty, 1887
 - getStringProperty, 1887
 - MessagePropertyInterceptor, 1884
 - setBooleanProperty, 1887
 - setByteProperty, 1888
 - setDoubleProperty, 1888
 - setFloatProperty, 1888
 - setIntProperty, 1889
 - setLongProperty, 1889
 - setShortProperty, 1889
 - setStringProperty, 1890
- activemq::wireformat::openwire::utils::OpenwireStringSupport, 1988
 - ~OpenwireStringSupport, 1988
 - OpenwireStringSupport, 1988
 - readString, 1988
 - writeString, 1989
- activemq::wireformat::stomp, 88
- activemq::wireformat::stomp::StompCommandConstants, 2450
 - ABORT, 2452
 - ACK, 2452
 - ACK_AUTO, 2452
 - ACK_CLIENT, 2452
 - ACK_INDIVIDUAL, 2452
 - BEGIN, 2452
 - BYTES, 2452
 - COMMIT, 2452
 - CONNECT, 2452
 - CONNECTED, 2452
 - DISCONNECT, 2452
 - ERROR_CMD, 2452
 - HEADER_ACK, 2452
 - HEADER_CLIENT_ID, 2452
 - HEADER_CONSUMERPRIORITY, 2452
 - HEADER_CONTENTLENGTH, 2452
 - HEADER_CORRELATIONID, 2452
 - HEADER_DESTINATION, 2452
 - HEADER_DISPATCH_ASYNC, 2452
 - HEADER_EXCLUSIVE, 2452
 - HEADER_EXPIRES, 2452
 - HEADER_ID, 2452
 - HEADER_JMSPRIORITY, 2452
 - HEADER_LOGIN, 2452
 - HEADER_MAXPENDINGMSGLIMIT, 2452
 - HEADER_MESSAGE, 2452
 - HEADER_MESSAGEID, 2452
 - HEADER_NOLOCAL, 2452
 - HEADER_OLDSUBSCRIPTIONNAME, 2452
 - HEADER_PASSWORD, 2452
 - HEADER_PERSISTENT, 2452
 - HEADER_PREFETCHSIZE, 2452
 - HEADER_RECEIPT_REQUIRED, 2452
 - HEADER_RECEIPTID, 2452
 - HEADER_REDELIVERED, 2452
 - HEADER_REDELIVERYCOUNT, 2452
 - HEADER_REPLYTO, 2452
 - HEADER_REQUESTID, 2452
 - HEADER_RESPONSEID, 2452
 - HEADER_RETROACTIVE, 2452
 - HEADER_SELECTOR, 2452
 - HEADER_SESSIONID, 2452
 - HEADER_SUBSCRIPTION, 2452
 - HEADER_SUBSCRIPTIONNAME, 2452
 - HEADER_TIMESTAMP, 2452
 - HEADER_TRANSACTIONID, 2452
 - HEADER_TRANSFORMATION, 2452
 - HEADER_TRANSFORMATION_ERROR, 2452

- HEADER_TYPE, 2452
- MESSAGE, 2452
- QUEUE_PREFIX, 2452
- RECEIPT, 2452
- SEND, 2452
- SUBSCRIBE, 2452
- TEMPQUEUE_PREFIX, 2452
- TEMPTOPIC_PREFIX, 2452
- TEXT, 2452
- TOPIC_PREFIX, 2452
- UNSUBSCRIBE, 2452
- activemq::wireformat::stomp::StompFrame, 2454
 - ~StompFrame, 2455
 - clone, 2455
 - copy, 2455
 - fromStream, 2455
 - getBody, 2456
 - getBodyLength, 2456
 - getCommand, 2456
 - getProperties, 2456
 - getProperty, 2457
 - hasProperty, 2457
 - removeProperty, 2457
 - setBody, 2457
 - setCommand, 2457
 - setProperty, 2458
 - StompFrame, 2455
 - toStream, 2458
- activemq::wireformat::stomp::StompHelper, 2459
 - ~StompHelper, 2460
 - convertConsumerId, 2460
 - convertDestination, 2460, 2461
 - convertMessageId, 2461
 - convertProducerId, 2461, 2462
 - convertProperties, 2462
 - convertTransactionId, 2462, 2463
 - StompHelper, 2460
- activemq::wireformat::stomp::StompWireFormat, 2464
 - ~StompWireFormat, 2465
 - createNegotiator, 2465
 - getVersion, 2465
 - hasNegotiator, 2465
 - marshal, 2465
 - setVersion, 2466
 - StompWireFormat, 2465
 - unmarshal, 2466
- activemq::wireformat::stomp::StompWireFormatFactory, 2468
 - ~StompWireFormatFactory, 2468
 - createWireFormat, 2468
 - StompWireFormatFactory, 2468
- activemq::wireformat::WireFormat, 2691
 - ~WireFormat, 2692
 - createNegotiator, 2692
 - getVersion, 2692
 - hasNegotiator, 2692
 - marshal, 2692
 - setVersion, 2693
 - unmarshal, 2693
- activemq::wireformat::WireFormatFactory, 2695
 - ~WireFormatFactory, 2695
 - createWireFormat, 2695
- activemq::wireformat::WireFormatNegotiator, 2719
 - ~WireFormatNegotiator, 2719
 - WireFormatNegotiator, 2719
- activemq::wireformat::WireFormatRegistry, 2720
 - ~WireFormatRegistry, 2721
 - findFactory, 2721
 - getInstance, 2721
 - getWireFormatNames, 2721
 - registerFactory, 2721
 - unregisterFactory, 2722
- ActiveMQBlobMessage
 - activemq::commands::ActiveMQBlobMessage, 145
- ActiveMQBlobMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller, 154
 - activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller, 158
 - activemq::wireformat::openwire::marshal::v3::ActiveMQBlobMessageMarshaller, 150
- ActiveMQBytesMessage
 - activemq::commands::ActiveMQBytesMessage, 164
- ActiveMQBytesMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMessageMarshaller, 181
 - activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller, 185
 - activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller, 177
- ActiveMQConnection
 - activemq::core::ActiveMQConnection, 190
- ActiveMQConnectionFactory
 - activemq::core::ActiveMQConnectionFactory, 199
- ActiveMQConnectionMetaData
 - activemq::core::ActiveMQConnectionMetaData, 204
- ActiveMQConnectionSupport

- activemq::core::ActiveMQConnectionSupportActiveMQQueue
 - 208
- ActiveMQConsumer
 - activemq::core::ActiveMQConsumer, 219
- ActiveMQCPP
 - activemq::library::ActiveMQCPP, 225
- ActiveMQDestination
 - activemq::commands::ActiveMQDestination, 229
- ActiveMQDestinationMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller, 243
 - activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller, 247
 - activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller, 239
- ActiveMQException
 - activemq::exceptions::ActiveMQException, 250, 251
- ActiveMQMapMessage
 - activemq::commands::ActiveMQMapMessage, 255
- ActiveMQMapMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller, 270
 - activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller, 274
 - activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller, 266
- ActiveMQMessage
 - activemq::commands::ActiveMQMessage, 277
- ActiveMQMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller, 285
 - activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller, 289
 - activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller, 281
- ActiveMQMessageTemplate
 - activemq::commands::ActiveMQMessageTemplate, 295
- ActiveMQObjectMessage
 - activemq::commands::ActiveMQObjectMessage, 309
- ActiveMQObjectMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller, 316
 - activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller, 320
 - activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller, 312
- ActiveMQProducer
 - activemq::core::ActiveMQProducer, 324
- activemq::commands::ActiveMQQueue, 336
- ActiveMQQueueMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller, 344
 - activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller, 348
 - activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller, 340
- ActiveMQSession
 - activemq::core::ActiveMQSession, 354
- ActiveMQSessionExecutor
 - activemq::core::ActiveMQSessionExecutor, 366
- ActiveMQStreamMessage
 - activemq::commands::ActiveMQStreamMessage, 374
- ActiveMQStreamMessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller, 390
 - activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller, 394
 - activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller, 386
- ActiveMQTempDestination
 - activemq::commands::ActiveMQTempDestination, 398
- ActiveMQTempDestinationMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller, 406
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller, 402
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller, 414
- ActiveMQTempQueue
 - activemq::commands::ActiveMQTempQueue, 423
- ActiveMQTempQueueMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller, 427
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller, 419
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller, 440
- ActiveMQTempTopic
 - activemq::commands::ActiveMQTempTopic, 431
- ActiveMQTempTopicMarshaller
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller, 440
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller, 444

- activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller, 436
- ActiveMQTempTopicMarshaller, 2227
- ActiveMQTextMessage
 - addDispatcher
 - activemq::commands::ActiveMQTextMessage, 448
 - addHandler
- ActiveMQTextMessageMarshaller
 - decaf::util::logging::Logger, 1623
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller, 456
 - activemq::commands::ConsumerInfo, 1067
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller, 460
 - activemq::wireformat::openwire::OpenWireFormat, 9971
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller, 452
 - addMessageConsumer
- ActiveMQTopic
 - activemq::cmsutil::ResourceLifecycleManager, 2227
 - activemq::commands::ActiveMQTopic, 464
- ActiveMQTopicMarshaller
 - addMessageProducer
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller, 472
 - activemq::cmsutil::ResourceLifecycleManager, 2227
 - activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller, 476
 - activemq::core::ActiveMQConnection, 191
 - activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller, 468
 - activemq::state::SessionState, 2317
 - addPropertyChangeListener
- ActiveMQTransactionContext
 - decaf::util::logging::LogManager, 1640
 - activemq::core::ActiveMQTransactionContext, 480
 - addSession
 - activemq::cmsutil::ResourceLifecycleManager, 2227
- add
 - activemq::transport::failover::CloseTransportsTask, 839
 - activemq::state::ConnectionState, 1018
 - activemq::transport::failover::FailoverTransport, 1296
 - addSynchronization
 - activemq::core::ActiveMQTransactionContext, 480
 - addTask
 - activemq::threads::CompositeTaskRunner, 907
 - addTempDestination
 - activemq::state::ConnectionState, 1018
 - addTransactionState
 - activemq::state::ConnectionState, 1018
 - addURI
 - activemq::transport::CompositeTransport, 909
 - activemq::transport::failover::FailoverTransport, 1296
 - activemq::transport::failover::URIPool, 2658
- addAll
 - decaf::util::AbstractCollection, 124
 - decaf::util::AbstractQueue, 135
 - decaf::util::Collection, 871
 - decaf::util::List, 1590
 - decaf::util::ListIterator, 1596
 - decaf::util::StlList, 2419
 - decaf::util::StlSet, 2446
- addAndGet
 - decaf::util::concurrent::atomic::AtomicInteger, 490
 - addURLs
 - activemq::transport::failover::URIPool, 2658
- addCommand
 - activemq::state::TransactionState, 2605
 - advisory
 - activemq::commands::ActiveMQDestination, 236
- addConnection
 - activemq::cmsutil::ResourceLifecycleManager, 2227
 - ADVISORY_PREFIX
 - activemq::commands::ActiveMQDestination, 236
- addConsumer
 - activemq::state::SessionState, 2317
 - after
- addDestination
 - decaf::util::Date, 1178

- afterCommit
 - activemq::core::Synchronization, 2514
- afterMarshal
 - activemq::commands::BaseDataStructure, 556
 - activemq::wireformat::MarshalAware, 1710
- afterMessageIsConsumed
 - activemq::core::ActiveMQConsumer, 219
- afterRollback
 - activemq::core::Synchronization, 2514
- afterUnmarshal
 - activemq::commands::BaseDataStructure, 556
 - activemq::commands::Message, 1739
 - activemq::commands::WireFormatInfo, 2699
 - activemq::wireformat::MarshalAware, 1711
- allocate
 - decaf::nio::ByteBuffer, 737
 - decaf::nio::CharBuffer, 818
 - decaf::nio::DoubleBuffer, 1250
 - decaf::nio::FloatBuffer, 1346
 - decaf::nio::IntBuffer, 1417
 - decaf::nio::LongBuffer, 1674
 - decaf::nio::ShortBuffer, 2338
- AMQ_CATCH_ALL_THROW_CMSEXCEPTION
 - activemq/exceptions/ExceptionDefines.h, 2845
- AMQ_CATCH_EXCEPTION_CONVERT
 - activemq/exceptions/ExceptionDefines.h, 2846
- AMQ_CATCH_NOTHROW
 - activemq/exceptions/ExceptionDefines.h, 2846
- AMQ_CATCH_RETHROW
 - activemq/exceptions/ExceptionDefines.h, 2846
- AMQ_CATCHALL_NOTHROW
 - activemq/exceptions/ExceptionDefines.h, 2847
- AMQ_CATCHALL_THROW
 - activemq/exceptions/ExceptionDefines.h, 2847
- AMQCPP_API
 - activemq/util/Config.h, 2896
- ANY_CHILD
 - activemq::commands::ActiveMQDestination::DestinationFilter, 1191
- ANY_DESCENDENT
 - activemq::commands::ActiveMQDestination::DestinationFilter, 1191
- append
 - decaf::lang::Appendable, 482, 483
- decaf::nio::CharBuffer, 818, 819
- AprPool
 - decaf::internal::AprPool, 484
- array
 - decaf::internal::nio::ByteBuffer, 698
 - decaf::internal::nio::CharArrayBuffer, 810
 - decaf::internal::nio::DoubleArrayBuffer, 1242
 - decaf::internal::nio::FloatArrayBuffer, 1339
 - decaf::internal::nio::IntArrayBuffer, 1410
 - decaf::internal::nio::LongArrayBuffer, 1666
 - decaf::internal::nio::ShortArrayBuffer, 2330
 - decaf::nio::ByteBuffer, 737
 - decaf::nio::CharBuffer, 820
 - decaf::nio::DoubleBuffer, 1250
 - decaf::nio::FloatBuffer, 1346
 - decaf::nio::IntBuffer, 1417
 - decaf::nio::LongBuffer, 1674
 - decaf::nio::ShortBuffer, 2338
- arrayOffset
 - decaf::internal::nio::ByteBuffer, 698
 - decaf::internal::nio::CharArrayBuffer, 810
 - decaf::internal::nio::DoubleArrayBuffer, 1243
 - decaf::internal::nio::FloatArrayBuffer, 1340
 - decaf::internal::nio::IntArrayBuffer, 1411
 - decaf::internal::nio::LongArrayBuffer, 1667
 - decaf::internal::nio::ShortArrayBuffer, 2331
 - decaf::nio::ByteBuffer, 738
 - decaf::nio::CharBuffer, 820
 - decaf::nio::DoubleBuffer, 1251
 - decaf::nio::FloatBuffer, 1347
 - decaf::nio::IntBuffer, 1418
 - decaf::nio::LongBuffer, 1675
 - decaf::nio::ShortBuffer, 2339
- arrival
 - activemq::commands::Message, 1749
- asCharBuffer
 - decaf::internal::nio::ByteBuffer, 698
 - decaf::nio::ByteBuffer, 738
- asDoubleBuffer
 - decaf::internal::nio::ByteBuffer, 699
 - decaf::nio::ByteBuffer, 738
- asFloatBuffer
 - decaf::internal::nio::ByteBuffer, 699
 - decaf::nio::ByteBuffer, 739
- asIntBuffer
 - decaf::internal::nio::ByteBuffer, 699
 - decaf::nio::ByteBuffer, 739
- asLongBuffer
 - decaf::internal::nio::ByteBuffer, 700
 - decaf::nio::ByteBuffer, 739

- asReadOnlyBuffer
 - decaf::internal::nio::ByteBuffer, 700
 - decaf::internal::nio::CharArrayBuffer, 810
 - decaf::internal::nio::DoubleArrayBuffer, 1243
 - decaf::internal::nio::FloatArrayBuffer, 1340
 - decaf::internal::nio::IntArrayBuffer, 1411
 - decaf::internal::nio::LongArrayBuffer, 1667
 - decaf::internal::nio::ShortArrayBuffer, 2331
 - decaf::nio::ByteBuffer, 740
 - decaf::nio::CharBuffer, 820
 - decaf::nio::DoubleBuffer, 1251
 - decaf::nio::FloatBuffer, 1347
 - decaf::nio::IntBuffer, 1418
 - decaf::nio::LongBuffer, 1675
 - decaf::nio::ShortBuffer, 2339
- asShortBuffer
 - decaf::internal::nio::ByteBuffer, 700
 - decaf::nio::ByteBuffer, 740
- AtomicBoolean
 - decaf::util::concurrent::atomic::AtomicBoolean, 486
- AtomicInteger
 - decaf::util::concurrent::atomic::AtomicInteger, 490
- AtomicRefCounter
 - decaf::lang::AtomicRefCounter, 494
- AtomicReference
 - decaf::util::concurrent::atomic::AtomicReference, 497
- AUTO_ACKNOWLEDGE
 - cms::Session, 2271
- available
 - decaf::internal::io::StandardInputStream, 2402
 - decaf::io::BlockingByteArrayInputStream, 566
 - decaf::io::BufferedInputStream, 632
 - decaf::io::ByteArrayInputStream, 716
 - decaf::io::FilterInputStream, 1315
 - decaf::io::InputStream, 1405
 - decaf::net::SocketInputStream, 2383
- await
 - decaf::util::concurrent::CountDownLatch, 1097
 - decaf::util::concurrent::locks::Condition, 932
- awaitNanos
 - decaf::util::concurrent::locks::Condition, 933
- awaitUninterruptibly
 - decaf::util::concurrent::locks::Condition, 934
- back
 - decaf::util::StlQueue, 2440
- BackupTransport
 - activemq::transport::failover::BackupTransport, 499
 - activemq::transport::failover::BackupTransportPool, 504
- BackupTransportPool
 - activemq::transport::failover::BackupTransportPool, 503
- BaseCommand
 - activemq::commands::BaseCommand, 506
- BaseCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller, 520
 - activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller, 527
 - activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller, 513
- before
 - decaf::util::Date, 1178
- beforeEnd
 - activemq::core::Synchronization, 2514
- beforeMarshal
 - activemq::commands::ActiveMQMapMessage, 255
 - activemq::commands::ActiveMQStreamMessage, 374
 - activemq::commands::BaseDataStructure, 556
 - activemq::commands::Message, 1739
 - activemq::commands::WireFormatInfo, 2700
 - activemq::wireformat::MarshalAware, 1711
- beforeMessageIsConsumed
 - activemq::core::ActiveMQConsumer, 220
- beforeUnmarshal
 - activemq::commands::BaseDataStructure, 556
 - activemq::wireformat::MarshalAware, 1711
- BEGIN
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- begin
 - activemq::core::ActiveMQTransactionContext, 480
- BIG_STRING_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- BINARY_MIME_TYPE
 - activemq::commands::ActiveMQBlobMessage, 148
- bind
 - decaf::net::ServerSocket, 2267
- BindException

- decaf::net::BindException, 561, 562
- bitCount
 - decaf::lang::Integer, 1429
 - decaf::lang::Long, 1653
- BlockingByteArrayInputStream
 - decaf::io::BlockingByteArrayInputStream, 565
- Boolean
 - decaf::lang::Boolean, 572
- BOOLEAN_TYPE
 - activemq::util::PrimitiveValueNode, 2071
- BooleanExpression
 - activemq::commands::BooleanExpression, 576
- BooleanStream
 - activemq::wireformat::openwire::utils::BooleanStream, 1196
- booleanValue
 - decaf::lang::Boolean, 572
- boolValue
 - activemq::util::PrimitiveValueNode::PrimitiveValueNode, 2065
- branchQualifier
 - activemq::commands::XATransactionId, 2733
- BrokenBarrierException
 - decaf::util::concurrent::BrokenBarrierException, 581, 582
- BrokerError
 - activemq::commands::BrokerError, 585
- BrokerException
 - activemq::exceptions::BrokerException, 588
- BrokerId
 - activemq::commands::BrokerId, 591
- brokerId
 - activemq::commands::BrokerInfo, 612
- BrokerIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller, 598
 - activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller, 602
 - activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller, 594
- BrokerInfo
 - activemq::commands::BrokerInfo, 607
- BrokerInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller, 618
 - activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller, 622
 - activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller, 614
- brokerInTime
 - activemq::commands::Message, 1749
- brokerMasterConnector
 - activemq::commands::ConnectionInfo, 1000
- brokerName
 - activemq::commands::BrokerInfo, 612
 - activemq::commands::DiscoveryEvent, 1214
- brokerOutTime
 - activemq::commands::Message, 1749
- brokerPath
 - activemq::commands::ConnectionInfo, 1000
 - activemq::commands::ConsumerInfo, 1067
 - activemq::commands::DestinationInfo, 1196
 - activemq::commands::Message, 1749
 - activemq::commands::ProducerInfo, 2124
- brokerSequenceId
 - activemq::commands::MessageId, 1845
- brokerUploadUrl
 - activemq::commands::BrokerInfo, 612
- brokerURL
 - activemq::commands::BrokerInfo, 612
- browser
 - activemq::commands::ConsumerInfo, 1067
- Buffer
 - decaf::nio::Buffer, 627
- buffer
 - decaf::io::DataOutputStream, 1129
- BufferedInputStream
 - decaf::io::BufferedInputStream, 632
- BufferedOutputStream
 - decaf::io::BufferedOutputStream, 636, 637
- BufferedSocket
 - decaf::net::BufferedSocket, 640
- BufferOverflowException
 - decaf::nio::BufferOverflowException, 656, 657
- BufferUnderflowException
 - decaf::nio::BufferUnderflowException, 659, 660
- BuildInfoMarshaller
 - activemq::transport::mock::ResponseBuilder, 2233
- activemq::transport::mock::ResponseBuilder, 2233
- activemq::wireformat::openwire::OpenWireResponseBuilder, 1986
- BuildMessageMarshaller
 - decaf::lang::Exception, 1269
- BuildResponseMarshaller
 - activemq::transport::mock::ResponseBuilder, 2233
- activemq::wireformat::openwire::OpenWireResponseBuilder, 1986

- Byte
 - decaf::lang::Byte, 663
- BYTE_ARRAY_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- BYTE_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- ByteArrayAdapter
 - decaf::internal::util::ByteArrayAdapter, 675–677
- ByteArrayBuffer
 - decaf::internal::nio::ByteBuffer, 696, 697
- ByteArrayInputStream
 - decaf::io::ByteArrayInputStream, 715
- ByteArrayOutputStream
 - decaf::io::ByteArrayOutputStream, 722
- ByteArrayPerspective
 - decaf::internal::nio::ByteArrayPerspective, 728–730
- byteArrayValue
 - activemq::util::PrimitiveValueNode::PrimitiveValueNode, 2065
- ByteBuffer
 - decaf::nio::ByteBuffer, 737
- BYTES
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- byteValue
 - activemq::util::PrimitiveValueNode::PrimitiveValueNode, 2065
 - decaf::lang::Byte, 664
 - decaf::lang::Character, 801
 - decaf::lang::Double, 1231
 - decaf::lang::Float, 1328
 - decaf::lang::Integer, 1429
 - decaf::lang::Long, 1653
 - decaf::lang::Number, 1952
 - decaf::lang::Short, 2321
- CachedConsumer
 - activemq::cmsutil::CachedConsumer, 772
- CachedProducer
 - activemq::cmsutil::CachedProducer, 776
- call
 - decaf::util::concurrent::Callable, 781
- cancel
 - decaf::util::concurrent::Future, 1373
- CancellationException
 - decaf::util::concurrent::CancellationException, 782, 783
- capacity
 - decaf::nio::Buffer, 627
- cause
 - decaf::lang::Exception, 1272
- ceil
 - decaf::lang::Math, 1719
- CertificateEncodingException
 - decaf::security::cert::CertificateEncodingException, 789, 790
- CertificateException
 - decaf::security::cert::CertificateException, 791, 792
- CertificateExpiredException
 - decaf::security::cert::CertificateExpiredException, 793, 794
- CertificateNotYetValidException
 - decaf::security::cert::CertificateNotYetValidException, 795, 796
- CertificateParsingException
 - decaf::security::cert::CertificateParsingException, 797, 798
- CHAR_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- Character
 - decaf::lang::Character, 801
- CharArrayBuffer
 - decaf::internal::nio::CharArrayBuffer, 808, 809
- charAt
 - decaf::lang::CharSequence, 831
- CharBuffer
 - decaf::nio::CharBuffer, 821
- CharBuffer
 - decaf::nio::CharBuffer, 818
- charValue
 - activemq::util::PrimitiveValueNode::PrimitiveValueNode, 2065
- checkConnectionFactory
 - activemq::cmsutil::CmsAccessor, 842
- checkDestinationResolver
 - activemq::cmsutil::CmsDestinationAccessor, 846
- checkListIsUnmarshalled
 - activemq::commands::ActiveMQStreamMessage, 374
- checkMapIsUnmarshalled
 - activemq::commands::ActiveMQMapMessage, 256
- checkReadOnlyBody
 - activemq::commands::ActiveMQMessageTemplate, 295
- checkReadOnlyProperties
 - activemq::commands::ActiveMQMessageTemplate, 295
- checkResult
 - decaf::net::TcpSocket, 2524
- checkShutdown
 - activemq::state::ConnectionState, 1018
 - activemq::state::SessionState, 2317

- activemq::state::TransactionState, 2605
- checkValidity
 - decaf::security::cert::X509Certificate, 2726
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 296
- 1963
- checkWriteOnlyBody
 - activemq::commands::ActiveMQBytesMessage, 164
 - activemq::commands::ActiveMQStreamMessage, 374
- ClassCastException
 - decaf::lang::exceptions::ClassCastException, 833, 834
- ClassName
 - activemq::commands::BrokerError::StackTraceElement, 2396
- cleanup
 - decaf::internal::AprPool, 484
- clear
 - activemq::core::ActiveMQSessionExecutor, 368
 - activemq::core::MessageDispatchChannel, 1804
 - activemq::util::ActiveMQProperties, 331
 - activemq::util::PrimitiveValueNode, 2074
 - activemq::wireformat::openwire::utils::BooleanStream, 579
 - cms::CMSProperties, 852
 - decaf::internal::util::ByteArrayAdapter, 678
 - decaf::nio::Buffer, 627
 - decaf::util::AbstractCollection, 124
 - decaf::util::AbstractQueue, 136
 - decaf::util::Collection, 872
 - decaf::util::concurrent::ConcurrentStlMap, 920
 - decaf::util::Map, 1688
 - decaf::util::Properties, 2140
 - decaf::util::StlList, 2421
 - decaf::util::StlMap, 2431
 - decaf::util::StlQueue, 2440
 - decaf::util::StlSet, 2447
- clearBody
 - activemq::commands::ActiveMQBytesMessage, 164
 - activemq::commands::ActiveMQMessageTemplate, 295
 - activemq::commands::ActiveMQStreamMessage, 374
 - cms::Message, 1755
- clearMessagesInProgress
 - activemq::core::ActiveMQConsumer, 220
 - activemq::core::ActiveMQSession, 354
- activemq::core::ActiveMQSessionExecutor, 368
- clearProperties
 - activemq::commands::ActiveMQMessageTemplate, 296
 - cms::Message, 1756
- CLIENT_ACKNOWLEDGE
 - cms::Session, 2271
 - clientId
 - activemq::commands::ConnectionInfo, 1000
 - activemq::commands::JournalTopicAck, 1509
 - activemq::commands::RemoveSubscriptionInfo, 2195
 - activemq::commands::SubscriptionInfo, 2493
- clientMaster
 - activemq::commands::ConnectionInfo, 1000
- clockSequence
 - decaf::util::UUID, 2686
- clone
 - activemq::commands::ActiveMQBlobMessage, 145
 - activemq::commands::ActiveMQBytesMessage, 164
 - activemq::commands::ActiveMQMapMessage, 256
 - activemq::commands::ActiveMQMessage, 277
 - activemq::commands::ActiveMQObjectMessage, 309
 - activemq::commands::ActiveMQQueue, 336
 - activemq::commands::ActiveMQStreamMessage, 374
 - activemq::commands::ActiveMQTempQueue, 414
 - activemq::commands::ActiveMQTempTopic, 431
 - activemq::commands::ActiveMQTextMessage, 448
 - activemq::commands::ActiveMQTopic, 464
 - activemq::exceptions::ActiveMQException, 251
 - activemq::exceptions::BrokerException, 588
 - activemq::util::ActiveMQProperties, 331
 - activemq::wireformat::stomp::StompFrame, 2455
 - cms::BytesMessage, 760
 - cms::CMSProperties, 852
 - cms::Destination, 1189

- cms::Message, 1756
- decaf::io::EOFException, 1265
- decaf::io::InterruptedIOException, 1462
- decaf::io::IOException, 1477
- decaf::io::UTFDataFormatException, 2683
- decaf::lang::Exception, 1269
- decaf::lang::exceptions::ClassCastException, 835
- decaf::lang::exceptions::IllegalArgumentException, 1393
- decaf::lang::exceptions::IllegalMonitorStateException, 1396
- decaf::lang::exceptions::IllegalStateException, 1400
- decaf::lang::exceptions::IndexOutOfBoundsException, 1403
- decaf::lang::exceptions::InterruptedException, 1459
- decaf::lang::exceptions::InvalidStateException, 1474
- decaf::lang::exceptions::NoSuchElementException, 1945
- decaf::lang::exceptions::NullPointerException, 1951
- decaf::lang::exceptions::NumberFormatException, 1957
- decaf::lang::exceptions::RuntimeException, 2259
- decaf::lang::exceptions::UnsupportedOperationException, 2635
- decaf::lang::Throwable, 2554
- decaf::net::BindException, 563
- decaf::net::ConnectException, 938
- decaf::net::HttpRetryException, 1390
- decaf::net::MalformedURLException, 1686
- decaf::net::NoRouteToHostException, 1939
- decaf::net::PortUnreachableException, 2037
- decaf::net::ProtocolException, 2150
- decaf::net::SocketException, 2378
- decaf::net::SocketTimeoutException, 2395
- decaf::net::UnknownHostException, 2629
- decaf::net::UnknownServiceException, 2632
- decaf::net::URISyntaxException, 2665
- decaf::nio::BufferOverflowException, 658
- decaf::nio::BufferUnderflowException, 661
- decaf::nio::InvalidMarkException, 1470
- decaf::nio::ReadOnlyBufferException, 2167
- decaf::security::cert::CertificateEncodingException, 790
- decaf::security::cert::CertificateException, 792
- decaf::security::cert::CertificateExpiredException, 794
- decaf::security::cert::CertificateNotYetValidException, 796
- decaf::security::cert::CertificateParsingException, 798
- decaf::security::GeneralSecurityException, 1379
- decaf::security::InvalidKeyException, 1467
- decaf::security::KeyException, 1572
- decaf::security::NoSuchAlgorithmException, 1942
- decaf::security::NoSuchProviderException, 1948
- decaf::security::SignatureException, 2364
- decaf::util::concurrent::BrokenBarrierException, 583
- decaf::util::concurrent::CancellationException, 784
- decaf::util::concurrent::ExecutionException, 1291
- decaf::util::concurrent::RejectedExecutionException, 2174
- decaf::util::concurrent::TimeoutException, 2559
- decaf::util::Properties, 2140
- cloneDataStructure
- activemq::commands::ActiveMQBlobMessage, 145
- activemq::commands::ActiveMQBytesMessage, 164
- activemq::commands::ActiveMQDestination, 229
- activemq::commands::ActiveMQMapMessage, 256
- activemq::commands::ActiveMQMessage, 278
- activemq::commands::ActiveMQObjectMessage, 309
- activemq::commands::ActiveMQQueue, 336
- activemq::commands::ActiveMQStreamMessage, 375
- activemq::commands::ActiveMQTempDestination, 398
- activemq::commands::ActiveMQTempQueue, 414
- activemq::commands::ActiveMQTempTopic, 431
- activemq::commands::ActiveMQTextMessage, 448
- activemq::commands::ActiveMQTopic, 464
- activemq::commands::BooleanExpression, 576

- activemq::commands::BrokerError, 585
- activemq::commands::BrokerId, 591
- activemq::commands::BrokerInfo, 607
- activemq::commands::ConnectionControl, 944
- activemq::commands::ConnectionError, 961
- activemq::commands::ConnectionId, 980
- activemq::commands::ConnectionInfo, 996
- activemq::commands::ConsumerControl, 1027
- activemq::commands::ConsumerId, 1044
- activemq::commands::ConsumerInfo, 1062
- activemq::commands::ControlCommand, 1082
- activemq::commands::DataArrayResponse, 1100
- activemq::commands::DataResponse, 1131
- activemq::commands::DataStructure, 1172
- activemq::commands::DestinationInfo, 1193
- activemq::commands::DiscoveryEvent, 1212
- activemq::commands::ExceptionResponse, 1275
- activemq::commands::FlushCommand, 1356
- activemq::commands::IntegerResponse, 1441
- activemq::commands::JournalQueueAck, 1490
- activemq::commands::JournalTopicAck, 1506
- activemq::commands::JournalTrace, 1523
- activemq::commands::JournalTransaction, 1538
- activemq::commands::KeepAliveInfo, 1554
- activemq::commands::LastPartialCommand, 1574
- activemq::commands::LocalTransactionId, 1599
- activemq::commands::Message, 1739
- activemq::commands::MessageAck, 1776
- activemq::commands::MessageDispatch, 1799
- activemq::commands::MessageDispatchNotification, 1822
- activemq::commands::MessageId, 1842
- activemq::commands::MessagePull, 1892
- activemq::commands::NetworkBridgeFilter, 1923
- activemq::commands::PartialCommand, 1994
- activemq::commands::ProducerAck, 2085
- activemq::commands::ProducerId, 2104
- activemq::commands::ProducerInfo, 2121
- activemq::commands::RemoveInfo, 2176
- activemq::commands::RemoveSubscriptionInfo, 2192
- activemq::commands::ReplayCommand, 2209
- activemq::commands::Response, 2230
- activemq::commands::SessionId, 2283
- activemq::commands::SessionInfo, 2299
- activemq::commands::ShutdownInfo, 2348
- activemq::commands::SubscriptionInfo, 2490
- activemq::commands::TransactionId, 2572
- activemq::commands::TransactionInfo, 2588
- activemq::commands::WireFormatInfo, 2700
- activemq::commands::XATransactionId, 2730
- close
 - activemq::cmsutil::CachedConsumer, 772
 - activemq::cmsutil::CachedProducer, 776
 - activemq::cmsutil::PooledSession, 2019
 - activemq::commands::ActiveMQTempDestination, 398
 - activemq::commands::ConnectionControl, 947
 - activemq::commands::ConsumerControl, 1030
 - activemq::core::ActiveMQConnection, 191
 - activemq::core::ActiveMQConsumer, 220
 - activemq::core::ActiveMQProducer, 325
 - activemq::core::ActiveMQSession, 354
 - activemq::core::ActiveMQSessionExecutor, 368
 - activemq::core::MessageDispatchChannel, 1804
 - activemq::transport::correlator::ResponseCorrelator, 2236
 - activemq::transport::failover::FailoverTransport, 1297
 - activemq::transport::IOTransport, 1480
 - activemq::transport::mock::MockTransport, 1910
 - activemq::transport::tcp::TcpTransport, 2531
 - activemq::transport::TransportFilter, 2616
 - activemq::wireformat::openwire::OpenWireFormatNegotiator, 1983
- cms::Closeable, 836
- cms::Connection, 940
- cms::Session, 2271

- decaf::internal::io::StandardErrorOutputStream, 2398
- decaf::internal::io::StandardInputStream, 2402
- decaf::internal::io::StandardOutputStream, 2408
- decaf::io::BlockingByteArrayInputStream, 566
- decaf::io::BufferedInputStream, 632
- decaf::io::BufferedOutputStream, 637
- decaf::io::ByteArrayInputStream, 716
- decaf::io::ByteArrayOutputStream, 722
- decaf::io::Closeable, 838
- decaf::io::FilterInputStream, 1315
- decaf::io::FilterOutputStream, 1322
- decaf::net::BufferedSocket, 640
- decaf::net::ServerSocket, 2267
- decaf::net::SocketInputStream, 2383
- decaf::net::SocketOutputStream, 2389
- decaf::net::TcpSocket, 2524
- decaf::util::logging::StreamHandler, 2471
- closed
 - decaf::io::FilterInputStream, 1319
 - decaf::io::FilterOutputStream, 1325
- CloseTransportsTask
 - activemq::transport::failover::CloseTransportsTask, 839
- cluster
 - activemq::commands::Message, 1749
- cms, 89
- cms/Config.h
 - CMS_API, 2897
- cms::BytesMessage, 757
 - ~BytesMessage, 760
 - clone, 760
 - getBodyBytes, 760
 - getBodyLength, 760
 - readBoolean, 760
 - readByte, 761
 - readBytes, 761, 762
 - readChar, 762
 - readDouble, 763
 - readFloat, 763
 - readInt, 763
 - readLong, 764
 - readShort, 764
 - readString, 764
 - readUnsignedShort, 765
 - readUTF, 765
 - reset, 765
 - setBodyBytes, 766
 - writeBoolean, 766
 - writeByte, 766
 - writeBytes, 766, 767
 - writeChar, 767
 - writeDouble, 767
 - writeFloat, 768
 - writeInt, 768
 - writeLong, 768
 - writeShort, 769
 - writeString, 769
 - writeUnsignedShort, 769
 - writeUTF, 770
- cms::Closeable, 836
 - ~Closeable, 836
 - close, 836
- cms::CMSException, 848
 - ~CMSException, 849
 - CMSException, 849
 - getCause, 849
 - getMessage, 849
 - getStackTrace, 849
 - getStackTraceString, 849
 - printStackTrace, 850
 - setMark, 850
- cms::CMSProperties, 851
 - ~CMSProperties, 852
 - clear, 852
 - clone, 852
 - copy, 852
 - getProperty, 852
 - hasProperty, 853
 - isEmpty, 853
 - remove, 853
 - setProperty, 853
 - toArray, 854
 - toString, 854
- cms::CMSSecurityException, 855
 - ~CMSSecurityException, 855
 - CMSSecurityException, 855
- cms::Connection, 939
 - ~Connection, 940
 - close, 940
 - createSession, 940, 941
 - getClientID, 941
 - getExceptionListener, 941
 - getMetaData, 941
 - setExceptionListener, 942
- cms::ConnectionFactory, 976
 - ~ConnectionFactory, 977
 - createCMSConnectionFactory, 977
 - createConnection, 977, 978
- cms::ConnectionMetaData, 1013
 - ~ConnectionMetaData, 1014
 - getCMSMajorVersion, 1014
 - getCMSMinorVersion, 1014
 - getCMSProviderName, 1014
 - getCMSVersion, 1014

- getCMSXPropertyNames, 1015
- getProviderMajorVersion, 1015
- getProviderMinorVersion, 1015
- getProviderVersion, 1016
- cms::DeliveryMode, 1186
 - ~DeliveryMode, 1186
 - NON_PERSISTENT, 1186
 - PERSISTENT, 1186
- cms::Destination, 1188
 - ~Destination, 1189
 - clone, 1189
 - copy, 1189
 - DestinationType, 1188
 - getCMSProperties, 1189
 - getDestinationType, 1189
 - QUEUE, 1188
 - TEMPORARY_QUEUE, 1188
 - TEMPORARY_TOPIC, 1188
 - TOPIC, 1188
- cms::ExceptionListener, 1273
 - ~ExceptionListener, 1273
 - onException, 1273
- cms::IllegalStateException, 1397
 - ~IllegalStateException, 1397
 - IllegalStateException, 1397
- cms::InvalidClientIdException, 1463
 - ~InvalidClientIdException, 1463
 - InvalidClientIdException, 1463
- cms::InvalidDestinationException, 1464
 - ~InvalidDestinationException, 1464
 - InvalidDestinationException, 1464
- cms::InvalidSelectorException, 1471
 - ~InvalidSelectorException, 1471
 - InvalidSelectorException, 1471
- cms::MapMessage, 1699
 - ~MapMessage, 1701
 - getBoolean, 1701
 - getByte, 1701
 - getBytes, 1702
 - getChar, 1702
 - getDouble, 1702
 - getFloat, 1702
 - getInt, 1703
 - getLong, 1703
 - getMapNames, 1703
 - getShort, 1704
 - getString, 1704
 - itemExists, 1704
 - setBoolean, 1705
 - setByte, 1705
 - setBytes, 1705
 - setChar, 1706
 - setDouble, 1706
 - setFloat, 1706
 - setInt, 1706
 - setLong, 1707
 - setShort, 1707
 - setString, 1707
- cms::Message, 1751
 - ~Message, 1755
 - acknowledge, 1755
 - clearBody, 1755
 - clearProperties, 1756
 - clone, 1756
 - getBooleanProperty, 1756
 - getByteProperty, 1757
 - getCMSCorrelationID, 1757
 - getCMSDeliveryMode, 1758
 - getCMSDestination, 1758
 - getCMSExpiration, 1759
 - getCMSMessageID, 1759
 - getCMSPriority, 1760
 - getCMSRedelivered, 1760
 - getCMSReplyTo, 1761
 - getCMSTimestamp, 1761
 - getCMSType, 1762
 - getDoubleProperty, 1762
 - getFloatProperty, 1763
 - getIntProperty, 1763
 - getLongProperty, 1764
 - getPropertyNames, 1764
 - getShortProperty, 1765
 - getStringProperty, 1765
 - propertyExists, 1765
 - setBooleanProperty, 1766
 - setByteProperty, 1766
 - setCMSCorrelationID, 1767
 - setCMSDeliveryMode, 1768
 - setCMSDestination, 1768
 - setCMSExpiration, 1768
 - setCMSMessageID, 1769
 - setCMSPriority, 1769
 - setCMSRedelivered, 1769
 - setCMSReplyTo, 1770
 - setCMSTimestamp, 1770
 - setCMSType, 1771
 - setDoubleProperty, 1772
 - setFloatProperty, 1772
 - setIntProperty, 1772
 - setLongProperty, 1773
 - setShortProperty, 1773
 - setStringProperty, 1774
- cms::MessageConsumer, 1793
 - ~MessageConsumer, 1794
 - getMessageListener, 1794
 - getMessageSelector, 1794
 - receive, 1794, 1795
 - receiveNoWait, 1795

- setMessageListener, 1795
- cms::MessageEOFException, 1839
 - ~MessageEOFException, 1839
 - MessageEOFException, 1839
- cms::MessageFormatException, 1840
 - ~MessageFormatException, 1840
 - MessageFormatException, 1840
- cms::MessageListener, 1858
 - ~MessageListener, 1858
 - onMessage, 1858
- cms::MessageNotReadableException, 1874
 - ~MessageNotReadableException, 1874
 - MessageNotReadableException, 1874
- cms::MessageNotWriteableException, 1875
 - ~MessageNotWriteableException, 1875
 - MessageNotWriteableException, 1875
- cms::MessageProducer, 1876
 - ~MessageProducer, 1877
 - getDeliveryMode, 1877
 - getDisableMessageID, 1877
 - getDisableMessageTimeStamp, 1878
 - getPriority, 1878
 - getTimeToLive, 1878
 - send, 1879, 1880
 - setDeliveryMode, 1880
 - setDisableMessageID, 1880
 - setDisableMessageTimeStamp, 1881
 - setPriority, 1881
 - setTimeToLive, 1881
- cms::ObjectMessage, 1958
 - ~ObjectMessage, 1958
- cms::Queue, 2155
 - ~Queue, 2155
 - getQueueName, 2155
- cms::QueueBrowser, 2156
 - ~QueueBrowser, 2156
 - getEnumeration, 2156
 - getMessageSelector, 2156
 - getQueue, 2157
- cms::Session, 2268
 - ~Session, 2271
 - AcknowledgeMode, 2271
 - AUTO_ACKNOWLEDGE, 2271
 - CLIENT_ACKNOWLEDGE, 2271
 - close, 2271
 - commit, 2272
 - createBrowser, 2272
 - createBytesMessage, 2273
 - createConsumer, 2273, 2274
 - createDurableConsumer, 2275
 - createMapMessage, 2275
 - createMessage, 2275
 - createProducer, 2276
 - createQueue, 2276
 - createStreamMessage, 2276
 - createTemporaryQueue, 2277
 - createTemporaryTopic, 2277
 - createTextMessage, 2277, 2278
 - createTopic, 2278
 - DUPS_OK_ACKNOWLEDGE, 2271
 - getAcknowledgeMode, 2278
 - INDIVIDUAL_ACKNOWLEDGE, 2271
 - isTransacted, 2279
 - recover, 2279
 - rollback, 2279
 - SESSION_TRANSACTED, 2271
 - unsubscribe, 2280
- cms::Startable, 2411
 - ~Startable, 2411
 - start, 2411
- cms::Stoppable, 2469
 - ~Stoppable, 2469
 - stop, 2469
- cms::StreamMessage, 2474
 - ~StreamMessage, 2476
 - readBoolean, 2476
 - readByte, 2476
 - readBytes, 2477
 - readChar, 2478
 - readDouble, 2478
 - readFloat, 2479
 - readInt, 2479
 - readLong, 2479
 - readShort, 2480
 - readString, 2480
 - readUnsignedShort, 2480
 - writeBoolean, 2481
 - writeByte, 2481
 - writeBytes, 2481, 2482
 - writeChar, 2482
 - writeDouble, 2482
 - writeFloat, 2483
 - writeInt, 2483
 - writeLong, 2483
 - writeShort, 2484
 - writeString, 2484
 - writeUnsignedShort, 2484
- cms::TemporaryQueue, 2536
 - ~TemporaryQueue, 2536
 - destroy, 2536
 - getQueueName, 2536
- cms::TemporaryTopic, 2538
 - ~TemporaryTopic, 2538
 - destroy, 2538
 - getTopicName, 2538
- cms::TextMessage, 2540
 - ~TextMessage, 2540
 - getText, 2540

- setText, 2541
- cms::Topic, 2569
 - ~Topic, 2569
 - getTopicName, 2569
- CMS_API
 - cms/Config.h, 2897
- CmsAccessor
 - activemq::cmsutil::CmsAccessor, 842
- CmsDestinationAccessor
 - activemq::cmsutil::CmsDestinationAccessor, 846
- CMSException
 - cms::CMSException, 849
- CMSSecurityException
 - cms::CMSSecurityException, 855
- CmsTemplate
 - activemq::cmsutil::CmsTemplate, 859
- command
 - activemq::commands::ControlCommand, 1084
- commandId
 - activemq::commands::PartialCommand, 1996
- COMMIT
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- commit
 - activemq::cmsutil::PooledSession, 2019
 - activemq::core::ActiveMQConsumer, 220
 - activemq::core::ActiveMQSession, 355
 - activemq::core::ActiveMQTransactionContext, 480
 - cms::Session, 2272
- compact
 - decaf::internal::nio::ByteBuffer, 701
 - decaf::internal::nio::CharArrayBuffer, 811
 - decaf::internal::nio::DoubleArrayBuffer, 1243
 - decaf::internal::nio::FloatArrayBuffer, 1340
 - decaf::internal::nio::IntArrayBuffer, 1411
 - decaf::internal::nio::LongArrayBuffer, 1667
 - decaf::internal::nio::ShortArrayBuffer, 2331
 - decaf::nio::ByteBuffer, 740
 - decaf::nio::CharBuffer, 821
 - decaf::nio::DoubleBuffer, 1251
 - decaf::nio::FloatBuffer, 1347
 - decaf::nio::IntBuffer, 1418
 - decaf::nio::LongBuffer, 1675
 - decaf::nio::ShortBuffer, 2339
- COMPARATOR
 - activemq::commands::BrokerId, 591
 - activemq::commands::ConnectionId, 980
 - activemq::commands::ConsumerId, 1044
 - activemq::commands::LocalTransactionId, 1599
 - activemq::commands::MessageId, 1842
 - activemq::commands::ProducerId, 2104
 - activemq::commands::SessionId, 2283
 - activemq::commands::TransactionId, 2571
 - activemq::commands::XATransactionId, 2730
- compare
 - decaf::lang::Double, 1231
 - decaf::lang::Float, 1328
 - decaf::lang::PointerComparator, 2016
 - decaf::util::Comparator, 900
- compareAndSet
 - decaf::util::concurrent::atomic::AtomicBoolean, 487
 - decaf::util::concurrent::atomic::AtomicInteger, 491
 - decaf::util::concurrent::atomic::AtomicReference, 497
- compareTo
 - activemq::commands::BrokerId, 591
 - activemq::commands::ConnectionId, 980
 - activemq::commands::ConsumerId, 1044
 - activemq::commands::LocalTransactionId, 1599
 - activemq::commands::MessageId, 1842
 - activemq::commands::ProducerId, 2104
 - activemq::commands::SessionId, 2283
 - activemq::commands::TransactionId, 2572
 - activemq::commands::XATransactionId, 2730
 - decaf::lang::Boolean, 572
 - decaf::lang::Byte, 664
 - decaf::lang::Character, 801
 - decaf::lang::Comparable, 897
 - decaf::lang::Double, 1232
 - decaf::lang::Float, 1329
 - decaf::lang::Integer, 1429
 - decaf::lang::Long, 1653
 - decaf::lang::Short, 2321
 - decaf::net::URI, 2640
 - decaf::nio::ByteBuffer, 741
 - decaf::nio::CharBuffer, 821
 - decaf::nio::DoubleBuffer, 1252
 - decaf::nio::FloatBuffer, 1348
 - decaf::nio::IntBuffer, 1419
 - decaf::nio::LongBuffer, 1676
 - decaf::nio::ShortBuffer, 2340
 - decaf::util::concurrent::TimeUnit, 2562
 - decaf::util::UUID, 2686
- COMPOSITE_SEPARATOR
 - activemq::commands::ActiveMQDestination, 236

- CompositeData
 - activemq::util::CompositeData, 903
- CompositeTaskRunner
 - activemq::threads::CompositeTaskRunner, 907
- compressed
 - activemq::commands::Message, 1749
- Concurrent.h
 - synchronized, 3291
 - WAIT_INFINITE, 3291
- ConcurrentStlMap
 - decaf::util::concurrent::ConcurrentStlMap, 919, 920
- configure
 - activemq::wireformat::openwire::marshal::v1::ConnectionFactory, 1715
 - activemq::wireformat::openwire::marshal::v2::ConnectionFactory, 1713
 - activemq::wireformat::openwire::marshal::v3::ConnectionFactory, 1714
- CONNECT
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- connect
 - decaf::net::BufferedSocket, 640
 - decaf::net::Socket, 2370
 - decaf::net::TcpSocket, 2524
- CONNECTED
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- ConnectException
 - decaf::net::ConnectException, 936, 937
- connection
 - activemq::commands::ActiveMQTempDestination, 400
- CONNECTION_ADVISORY_PREFIX
 - activemq::commands::ActiveMQDestination, 236
- CONNECTION_ALWAYS_SYNC_SEND
 - activemq::core::ActiveMQConstants, 216
- CONNECTION_CLOSE_TIMEOUT
 - activemq::core::ActiveMQConstants, 216
- CONNECTION_PRODUCER_WINDOW_SIZE
 - activemq::core::ActiveMQConstants, 216
- CONNECTION_SEND_TIMEOUT
 - activemq::core::ActiveMQConstants, 216
- CONNECTION_USE_ASYNC_SEND
 - activemq::core::ActiveMQConstants, 216
- ConnectionControl
 - activemq::commands::ConnectionControl, 944
- ConnectionControlMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller, 953
- activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller, 957
- activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller, 949
- ConnectionError
 - activemq::commands::ConnectionError, 961
- ConnectionErrorMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller, 969
 - activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller, 973
 - activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller, 965
- ConnectionFactory
 - activemq::commands::ConnectionId, 980
- ConnectionFactory
 - activemq::commands::BrokerInfo, 612
- ConnectionFactory
 - activemq::commands::ConnectionError, 963
- activemq::commands::ConnectionInfo, 1000
- activemq::commands::ConsumerId, 1046
- activemq::commands::DestinationInfo, 1196
- activemq::commands::LocalTransactionId, 1601
- activemq::commands::ProducerId, 2106
- activemq::commands::RemoveSubscriptionInfo, 2195
- activemq::commands::SessionId, 2285
- activemq::commands::TransactionInfo, 2590
- ConnectionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller, 988
 - activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller, 992
 - activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller, 984
- ConnectionInfo
 - activemq::commands::ConnectionInfo, 996
- ConnectionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller, 1006
 - activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller, 1010
 - activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller, 1002
- ConnectionState
 - activemq::state::ConnectionState, 1018
- ConnectionStateTracker
 - activemq::state::ConnectionStateTracker, 1022

- CONSUMER_ADVISORY_PREFIX
 - activemq::commands::ActiveMQDestination, 236
- CONSUMER_DISPATCHASYNC
 - activemq::core::ActiveMQConstants, 215
- CONSUMER_EXCLUSIVE
 - activemq::core::ActiveMQConstants, 215
- CONSUMER_NOLOCAL
 - activemq::core::ActiveMQConstants, 215
- CONSUMER_PREFETCHSIZE
 - activemq::core::ActiveMQConstants, 215
- CONSUMER_PRIORITY
 - activemq::core::ActiveMQConstants, 215
- CONSUMER_RETROACTIVE
 - activemq::core::ActiveMQConstants, 215
- CONSUMER_SELECTOR
 - activemq::core::ActiveMQConstants, 215
- ConsumerControl
 - activemq::commands::ConsumerControl, 1027
- ConsumerControlMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller, 1036
 - activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller, 1040
 - activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller, 1032
- ConsumerId
 - activemq::commands::ConsumerId, 1044
- consumerId
 - activemq::commands::ConsumerControl, 1030
 - activemq::commands::ConsumerInfo, 1067
 - activemq::commands::MessageAck, 1780
 - activemq::commands::MessageDispatch, 1802
 - activemq::commands::MessageDispatchNotification, 1826
 - activemq::commands::MessagePull, 1895
- ConsumerIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller, 1053
 - activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller, 1057
 - activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller, 1049
- ConsumerInfo
 - activemq::commands::ConsumerInfo, 1062
- ConsumerInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller, 1073
 - activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller, 1077
- activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller, 1069
- ConsumerState
 - activemq::state::ConsumerState, 1080
- contains
 - decaf::util::AbstractCollection, 125
 - decaf::util::Collection, 872
 - decaf::util::StlList, 2421
 - decaf::util::StlSet, 2447
- containsAll
 - decaf::util::AbstractCollection, 126
 - decaf::util::Collection, 873
- containsKey
 - decaf::util::concurrent::ConcurrentStlMap, 920
 - decaf::util::Map, 1689
 - decaf::util::StlMap, 2431
- containsValue
 - decaf::util::concurrent::ConcurrentStlMap, 921
 - decaf::util::Map, 1690
 - decaf::util::StlMap, 2431
- content
 - activemq::commands::Message, 1749
- ControlCommand
 - activemq::commands::ControlCommand, 1082
- ControlCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller, 1086
 - activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller, 1094
 - activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller, 1090
- convert
 - activemq::util::PrimitiveValueConverter, 2066
 - decaf::util::concurrent::TimeUnit, 2562
- convert ConsumerId
 - activemq::wireformat::stomp::StompHelper, 2460
- convert Destination
 - activemq::wireformat::stomp::StompHelper, 2460
- convert MessageId
 - activemq::wireformat::stomp::StompHelper, 2461
- convert ProducerId
 - activemq::wireformat::stomp::StompHelper, 2461, 2462
- convert ToCMSException
 - activemq::wireformat::stomp::StompHelper, 2462

- activemq::exceptions::ActiveMQException, 251
- convertTransactionId
 - activemq::wireformat::stomp::StompHelper, 2462, 2463
- copy
 - activemq::commands::ActiveMQQueue, 336
 - activemq::commands::ActiveMQTempQueue, 414
 - activemq::commands::ActiveMQTempTopic, 431
 - activemq::commands::ActiveMQTopic, 464
 - activemq::util::ActiveMQProperties, 331
 - activemq::wireformat::stomp::StompFrame, 2455
 - cms::CMSProperties, 852
 - cms::Destination, 1189
 - decaf::util::AbstractCollection, 126
 - decaf::util::concurrent::ConcurrentStlMap, 921
 - decaf::util::Map, 1690
 - decaf::util::Properties, 2140
 - decaf::util::StlList, 2421
 - decaf::util::StlMap, 2432
 - decaf::util::StlSet, 2448
- copyDataStructure
 - activemq::commands::ActiveMQBlobMessage, 145
 - activemq::commands::ActiveMQBytesMessage, 164
 - activemq::commands::ActiveMQDestination, 230
 - activemq::commands::ActiveMQMapMessage, 256
 - activemq::commands::ActiveMQMessage, 278
 - activemq::commands::ActiveMQObjectMessage, 309
 - activemq::commands::ActiveMQQueue, 336
 - activemq::commands::ActiveMQStreamMessage, 375
 - activemq::commands::ActiveMQTempDestination, 398
 - activemq::commands::ActiveMQTempQueue, 414
 - activemq::commands::ActiveMQTempTopic, 431
 - activemq::commands::ActiveMQTextMessage, 448
 - activemq::commands::ActiveMQTopic, 464
 - activemq::commands::BaseCommand, 506
 - activemq::commands::BaseDataStructure, 556
 - activemq::commands::BooleanExpression, 576
 - activemq::commands::BrokerError, 585
 - activemq::commands::BrokerId, 591
 - activemq::commands::BrokerInfo, 607
 - activemq::commands::ConnectionControl, 944
 - activemq::commands::ConnectionError, 961
 - activemq::commands::ConnectionId, 980
 - activemq::commands::ConnectionInfo, 996
 - activemq::commands::ConsumerControl, 1027
 - activemq::commands::ConsumerId, 1044
 - activemq::commands::ConsumerInfo, 1062
 - activemq::commands::ControlCommand, 1082
 - activemq::commands::DataArrayResponse, 1100
 - activemq::commands::DataResponse, 1131
 - activemq::commands::DataStructure, 1173
 - activemq::commands::DestinationInfo, 1193
 - activemq::commands::DiscoveryEvent, 1212
 - activemq::commands::ExceptionResponse, 1275
 - activemq::commands::FlushCommand, 1356
 - activemq::commands::IntegerResponse, 1441
 - activemq::commands::JournalQueueAck, 1490
 - activemq::commands::JournalTopicAck, 1506
 - activemq::commands::JournalTrace, 1523
 - activemq::commands::JournalTransaction, 1538
 - activemq::commands::KeepAliveInfo, 1554
 - activemq::commands::LastPartialCommand, 1574
 - activemq::commands::LocalTransactionId, 1599
 - activemq::commands::Message, 1740
 - activemq::commands::MessageAck, 1776
 - activemq::commands::MessageDispatch, 1799
 - activemq::commands::MessageDispatchNotification, 1822
 - activemq::commands::MessageId, 1842
 - activemq::commands::MessagePull, 1892

- activemq::commands::NetworkBridgeFilter, 1923
- activemq::commands::PartialCommand, 1994
- activemq::commands::ProducerAck, 2085
- activemq::commands::ProducerId, 2104
- activemq::commands::ProducerInfo, 2121
- activemq::commands::RemoveInfo, 2176
- activemq::commands::RemoveSubscriptionInfo, 2192
- activemq::commands::ReplayCommand, 2209
- activemq::commands::Response, 2230
- activemq::commands::SessionId, 2283
- activemq::commands::SessionInfo, 2299
- activemq::commands::ShutdownInfo, 2348
- activemq::commands::SubscriptionInfo, 2490
- activemq::commands::TransactionId, 2572
- activemq::commands::TransactionInfo, 2588
- activemq::commands::WireFormatInfo, 2700
- activemq::commands::XATransactionId, 2730
- correlationId
 - activemq::commands::Message, 1749
 - activemq::commands::MessagePull, 1895
 - activemq::commands::Response, 2232
- countDown
 - decaf::util::concurrent::CountDownLatch, 1098
- CountDownLatch
 - decaf::util::concurrent::CountDownLatch, 1097
- CounterType
 - decaf::lang::Pointer, 2011
- countTokens
 - decaf::util::StringTokenizer, 2487
- create
 - activemq::transport::failover::FailoverTransportFactory, 1307
 - activemq::transport::mock::MockTransportFactory, 1917
 - activemq::transport::tcp::TcpTransportFactory, 2534
 - activemq::transport::TransportFactory, 2612
 - decaf::net::URI, 2640
- createBrowser
 - activemq::cmsutil::PooledSession, 2020
 - activemq::core::ActiveMQSession, 355
 - cms::Session, 2272
- createByteBuffer
 - decaf::internal::nio::BufferFactory, 648
- createBytesMessage
 - activemq::cmsutil::PooledSession, 2020, 2021
 - activemq::core::ActiveMQSession, 356
 - cms::Session, 2273
- createCachedConsumer
 - activemq::cmsutil::PooledSession, 2021
- createCachedProducer
 - activemq::cmsutil::PooledSession, 2021
- createCharBuffer
 - decaf::internal::nio::BufferFactory, 649
- createCMSConnectionFactory
 - cms::ConnectionFactory, 977
- createComposite
 - activemq::transport::failover::FailoverTransportFactory, 1307
 - activemq::transport::mock::MockTransportFactory, 1917
 - activemq::transport::tcp::TcpTransportFactory, 2534
 - activemq::transport::TransportFactory, 2613
- createConnection
 - activemq::cmsutil::CmsAccessor, 842
 - activemq::core::ActiveMQConnectionFactory, 199, 200
 - cms::ConnectionFactory, 977, 978
- createConsumer
 - activemq::cmsutil::PooledSession, 2022, 2023
 - activemq::core::ActiveMQSession, 356, 357
 - cms::Session, 2273, 2274
- createDestination
 - activemq::commands::ActiveMQDestination, 230
- createDoubleBuffer
 - decaf::internal::nio::BufferFactory, 650
- createDurableConsumer
 - activemq::cmsutil::PooledSession, 2023
 - activemq::core::ActiveMQSession, 357
 - cms::Session, 2275
- createFloatBuffer
 - decaf::internal::nio::BufferFactory, 651
- createIntBuffer
 - decaf::internal::nio::BufferFactory, 652
- createLongBuffer
 - decaf::internal::nio::BufferFactory, 653
- createMapMessage
 - activemq::cmsutil::PooledSession, 2024
 - activemq::core::ActiveMQSession, 358
 - cms::Session, 2275
- createMessage
 - activemq::cmsutil::MessageCreator, 1797

- activemq::cmsutil::PooledSession, 2024
- activemq::core::ActiveMQSession, 358
- cms::Session, 2275
- createNegotiator
 - activemq::wireformat::openwire::OpenWireFormat, 1971
 - activemq::wireformat::stomp::StompWireFormat, 2465
 - activemq::wireformat::WireFormat, 2692
- createObject
 - activemq::wireformat::openwire::marshal::DataStructureMarshaller, 1146
 - activemq::wireformat::openwire::marshal::v1::ActiveMQBlockWireFormatMarshaller, 154
 - activemq::wireformat::openwire::marshal::v1::ActiveMQByteWireFormatMarshaller, 181
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMapWireFormatMarshaller, 270
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller, 285
 - activemq::wireformat::openwire::marshal::v1::ActiveMQObjectWireFormatMarshaller, 316
 - activemq::wireformat::openwire::marshal::v1::ActiveMQQueueWireFormatMarshaller, 344
 - activemq::wireformat::openwire::marshal::v1::ActiveMQStringWireFormatMarshaller, 390
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller, 423
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller, 440
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTextWireFormatMarshaller, 456
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller, 472
 - activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller, 598
 - activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller, 618
 - activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller, 953
 - activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller, 969
 - activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller, 988
 - activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller, 1006
 - activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller, 1036
 - activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller, 1053
 - activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller, 1073
 - activemq::wireformat::openwire::marshal::v1::ContentCommandMarshaller, 1086
 - activemq::wireformat::openwire::marshal::v1::DataArrayResponse, 1107
 - activemq::wireformat::openwire::marshal::v1::DataResponseM, 1138
 - activemq::wireformat::openwire::marshal::v1::DestinationInfoM, 1202
 - activemq::wireformat::openwire::marshal::v1::DiscoveryEventM, 1220
 - activemq::wireformat::openwire::marshal::v1::ExceptionRespon, 1282
 - activemq::wireformat::openwire::marshal::v1::FlushCommandL, 1359
 - activemq::wireformat::openwire::marshal::v1::IntegerResponse, 1448
 - activemq::wireformat::openwire::marshal::v1::JournalQueueAc, 1498
 - activemq::wireformat::openwire::marshal::v1::JournalTopicAck, 1519
 - activemq::wireformat::openwire::marshal::v1::JournalTraceMa, 1534
 - activemq::wireformat::openwire::marshal::v1::JournalTransact, 1550
 - activemq::wireformat::openwire::marshal::v1::KeepAliveInfoM, 1565
 - activemq::wireformat::openwire::marshal::v1::LastPartialComm, 1581
 - activemq::wireformat::openwire::marshal::v1::LocalTransaction, 1611
 - activemq::wireformat::openwire::marshal::v1::MessageAckMar, 1790
 - activemq::wireformat::openwire::marshal::v1::MessageDispatc, 1818
 - activemq::wireformat::openwire::marshal::v1::MessageDispatc, 1832
 - activemq::wireformat::openwire::marshal::v1::MessageIdMarsh, 1847
 - activemq::wireformat::openwire::marshal::v1::MessagePullMar, 1905
 - activemq::wireformat::openwire::marshal::v1::NetworkBridgeF, 1934
 - activemq::wireformat::openwire::marshal::v1::PartialCommand, 2006
 - activemq::wireformat::openwire::marshal::v1::ProducerAckMar, 2093
 - activemq::wireformat::openwire::marshal::v1::ProducerIdMars, 2117
 - activemq::wireformat::openwire::marshal::v1::ProducerInfoMa, 2134
 - activemq::wireformat::openwire::marshal::v1::RemoveInfoMars, 2184
 - activemq::wireformat::openwire::marshal::v1::RemoveSubscrip, 2205
 - activemq::wireformat::openwire::marshal::v1::ReplayCommand, 2221

activemq::wireformat::openwire::marshal::v1::ResponseMarshaller	1077
2250	
activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	1094
2287	
activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	1111
2303	
activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller	1142
2355	
activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller	1206
2495	
activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller	1224
2601	
activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller	1286
2716	
activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller	1367
2735	
activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMessageMarshaller	1444
158	
activemq::wireformat::openwire::marshal::v2::ActiveMQByteMessageMarshaller	1494
185	
activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller	1511
274	
activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller	1526
289	
activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller	1542
320	
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMessageMarshaller	1561
348	
activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller	1585
394	
activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller	1603
427	
activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller	1782
444	
activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller	1810
460	
activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller	1828
476	
activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller	1855
602	
activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller	1897
622	
activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller	1930
957	
activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller	1998
973	
activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller	2097
992	
activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller	2109
1010	
activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller	2126
1040	
activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller	2180
1057	

activemq::wireformat::openwire::marshal::v2::RemoteSubscriptionInfoMarshaller	2197	1032	activemq::wireformat::openwire::marshal::v3::ConsumerControlResponseMarshaller
activemq::wireformat::openwire::marshal::v2::ReplyCommandMarshaller	2213	1049	activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller
activemq::wireformat::openwire::marshal::v2::ResponseMarshaller	2240	1069	activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller
activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller	2295	1090	activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller
activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller	2307	1103	activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller
activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller	2351	1134	activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller
activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller	2503	1198	activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller
activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller	2593	1216	activemq::wireformat::openwire::marshal::v3::DiscoveryEventManager
activemq::wireformat::openwire::marshal::v2::WireFormatMarshaller	2712	1278	activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller
activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller	2743	1363	activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQBlockWireFormatMarshaller	150	1452	activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQByteWireFormatMarshaller	177	1502	activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQMapWireFormatMarshaller	266	1515	activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller	281	1530	activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQObjectWireFormatMarshaller	312	1546	activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQQueueWireFormatMarshaller	340	1557	activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQStreamMessageMarshaller	386	1577	activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller	419	1607	activemq::wireformat::openwire::marshal::v3::LocalTransactionMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller	436	1786	activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller	452	1814	activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller
activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller	468	1836	activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller
activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller	594	1851	activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller
activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller	614	1901	activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller
activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller	949	1926	activemq::wireformat::openwire::marshal::v3::NetworkBridgeFailureMarshaller
activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller	965	2002	activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller
activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller	984	2089	activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller
activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller	1002	2113	activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller

- activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller, 2026
 - 2130
 - activemq::core::ActiveMQSession, 359
- activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller, 2277, 2188
 - createTextMessage
- activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller, 2026
 - 2201
 - activemq::core::ActiveMQSession, 359, 360
- activemq::wireformat::openwire::marshal::v3::ReplyConsumerMarshaller, 2275, 2278
 - 2217
 - createTopic
- activemq::wireformat::openwire::marshal::v3::ResponseMarshaller, 2027
 - 2245
 - activemq::core::ActiveMQSession, 360
- activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller, 2278
 - 2291
 - createWireFormat
- activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller, 2311
 - 141
 - activemq::transport::AbstractTransportFactory,
- activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller, 2359
 - 1980
- activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller, 2499
 - 2468
 - activemq::wireformat::stomp::StompWireFormatFactory,
- activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller, 2597
 - 2695
 - activemq::wireformat::WireFormatFactory,
- activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller, 2708
 - createX509Principal
- activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller, 2739
 - decaf::security_provider::SecurityProvider,
- createProducer
 - activemq::cmsutil::PooledSession, 2024
 - activemq::core::ActiveMQSession, 358
 - cms::Session, 2276
- createQueryString
 - activemq::util::URISupport, 2660
- createQueue
 - activemq::cmsutil::PooledSession, 2025
 - activemq::core::ActiveMQSession, 358
 - cms::Session, 2276
- createSession
 - activemq::cmsutil::CmsAccessor, 842
 - activemq::core::ActiveMQConnection, 191
 - cms::Connection, 940, 941
- createShortBuffer
 - decaf::internal::nio::BufferFactory, 654
- createSocket
 - decaf::net::SocketFactory, 2380
- createStreamMessage
 - activemq::cmsutil::PooledSession, 2025
 - activemq::core::ActiveMQSession, 359
 - cms::Session, 2276
- createTemporaryName
 - activemq::commands::ActiveMQDestination, 230
- createTemporaryQueue
 - activemq::cmsutil::PooledSession, 2025
 - activemq::core::ActiveMQSession, 359
 - cms::Session, 2277
- createTemporaryTopic
 - activemq::core::ActiveMQSession, 359
- CUNSUMER_MAXPENDINGMSGLIMIT
 - activemq::core::ActiveMQConstants, 215
- currentTimeMillis
 - decaf::lang::System, 2515
- data
 - activemq::commands::DataArrayResponse, 1101
 - activemq::commands::DataResponse, 1132
 - activemq::commands::PartialCommand, 1996
- DataArrayResponse
 - activemq::commands::DataArrayResponse, 1100
- DataArrayResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller, 1107
 - activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller, 1111
 - activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller, 1103
- DataInputStream
 - decaf::io::DataInputStream, 1115
- DataOutputStream
 - decaf::io::DataOutputStream, 1124
- DataResponse
 - activemq::commands::DataResponse, 1131
- DataResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller, 1138

- activemq:wireformat:openwire:marshal:v2::DataResponse, 2402
- activemq:wireformat:openwire:marshal:v3::DataResponse, 2403
- dataStructure
 - activemq:commands::Message, 1749
- Date
 - decaf:util::Date, 1178
- DAYS
 - decaf:util::concurrent::TimeUnit, 2568
- Debug
 - decaf:util::logging, 119
- debug
 - decaf:util::logging::Logger, 1623
 - decaf:util::logging::SimpleLogger, 2368
- decaf, 92
- decaf/lang/exceptions/ExceptionDefines.h
 - DECAF_CATCH_EXCEPTION_-
CONVERT, 2848
 - DECAF_CATCH_NOTHROW, 2848
 - DECAF_CATCH_RETHROW, 2849
 - DECAF_CATCHALL_NOTHROW, 2849
 - DECAF_CATCHALL_THROW, 2849
- decaf/util/Config.h
 - DECAF_API, 2898
 - DECAF_UNUSED, 2898
- decaf:internal, 93
- decaf:internal::AprPool, 484
 - ~AprPool, 484
 - AprPool, 484
 - cleanup, 484
 - getAprPool, 484
 - getGlobalPool, 484
- decaf:internal::DecafRuntime, 1180
 - ~DecafRuntime, 1180
 - DecafRuntime, 1180
 - getGlobalPool, 1180
- decaf:internal:io, 94
- decaf:internal:io::StandardErrorOutputStream, 2397
 - ~StandardErrorOutputStream, 2398
 - close, 2398
 - flush, 2398
 - lock, 2398
 - notify, 2398
 - notifyAll, 2399
 - StandardErrorOutputStream, 2398
 - wait, 2399
 - write, 2399, 2400
- decaf:internal:io::StandardInputStream, 2401
 - ~StandardInputStream, 2402
 - available, 2402
 - close, 2402
 - lock, 2402
- decaf:internal:io::StandardOutputStream, 2407
 - ~StandardOutputStream, 2408
 - close, 2408
 - flush, 2408
 - lock, 2408
 - notify, 2408
 - notifyAll, 2408
 - StandardOutputStream, 2408
 - unlock, 2409
 - wait, 2409
 - write, 2409, 2410
- decaf:internal:net, 95
- decaf:internal:net::URIEncoderDecoder, 2647
 - ~URIEncoderDecoder, 2647
 - decode, 2647
 - encodeOthers, 2648
 - quoteIllegal, 2648
 - URIEncoderDecoder, 2647
 - validate, 2648
 - validateSimple, 2648
- decaf:internal:net::URIHelper, 2650
 - ~URIHelper, 2651
 - isValidDomainName, 2652
 - isValidHexChar, 2652
 - isValidHost, 2652
 - isValidIP4Word, 2652
 - isValidIP6Address, 2653
 - isValidIPv4Address, 2653
 - parseAuthority, 2653
 - parseURI, 2654
 - URIHelper, 2651
 - validateAuthority, 2654
 - validateFragment, 2654
 - validatePath, 2654
 - validateQuery, 2655
 - validateScheme, 2655
 - validateSsp, 2655
 - validateUserinfo, 2656
- decaf:internal:net::URIType, 2667
 - ~URIType, 2669
 - getAuthority, 2669
 - getFragment, 2669
 - getHost, 2669

- getPath, 2669
- getPort, 2669
- getQuery, 2670
- getScheme, 2670
- getSchemeSpecificPart, 2670
- getSource, 2670
- getUserInfo, 2670
- isAbsolute, 2670
- isOpaque, 2671
- isServerAuthority, 2671
- isValid, 2671
- setAbsolute, 2671
- setAuthority, 2671
- setFragment, 2671
- setHost, 2672
- setOpaque, 2672
- setPath, 2672
- setPort, 2672
- setQuery, 2672
- setScheme, 2672
- setSchemeSpecificPart, 2673
- setServerAuthority, 2673
- setSource, 2673
- setUserInfo, 2673
- setValid, 2673
- URIType, 2669
- decaf::internal::nio, 96
- decaf::internal::nio::BufferFactory, 646
 - ~BufferFactory, 648
 - createByteBuffer, 648
 - createCharBuffer, 649
 - createDoubleBuffer, 650
 - createFloatBuffer, 651
 - createIntBuffer, 652
 - createLongBuffer, 653
 - createShortBuffer, 654
- decaf::internal::nio::ByteBuffer, 692
 - ~ByteBuffer, 697
 - array, 698
 - arrayOffset, 698
 - asCharBuffer, 698
 - asDoubleBuffer, 699
 - asFloatBuffer, 699
 - asIntBuffer, 699
 - asLongBuffer, 700
 - asReadOnlyBuffer, 700
 - asShortBuffer, 700
 - ByteBuffer, 696, 697
 - compact, 701
 - duplicate, 701
 - get, 701, 702
 - getChar, 702
 - getDouble, 703
 - getFloat, 703, 704
 - getInt, 704
 - getLong, 705
 - getShort, 705, 706
 - hasArray, 706
 - isReadOnly, 706
 - put, 707
 - putChar, 707, 708
 - putDouble, 708, 709
 - putFloat, 709, 710
 - putInt, 710
 - putLong, 711
 - putShort, 712
 - setReadOnly, 713
 - slice, 713
- decaf::internal::nio::ByteArrayPerspective, 727
 - ~ByteArrayPerspective, 730
 - ByteArrayPerspective, 728–730
 - getReferences, 730
 - returnRef, 730
 - takeRef, 731
- decaf::internal::nio::CharArrayBuffer, 807
 - ~CharArrayBuffer, 809
 - _array, 814
 - array, 810
 - arrayOffset, 810
 - asReadOnlyBuffer, 810
 - CharArrayBuffer, 808, 809
 - compact, 811
 - duplicate, 811
 - get, 811, 812
 - hasArray, 812
 - isReadOnly, 812
 - offset, 814
 - put, 812, 813
 - readOnly, 814
 - setReadOnly, 813
 - slice, 813
 - subSequence, 814
- decaf::internal::nio::DoubleArrayBuffer, 1240
 - ~DoubleArrayBuffer, 1242
 - array, 1242
 - arrayOffset, 1243
 - asReadOnlyBuffer, 1243
 - compact, 1243
 - DoubleArrayBuffer, 1241, 1242
 - duplicate, 1244
 - get, 1244
 - hasArray, 1245
 - isReadOnly, 1245
 - put, 1245, 1246
 - setReadOnly, 1246
 - slice, 1246
- decaf::internal::nio::FloatArrayBuffer, 1337
 - ~FloatArrayBuffer, 1339

- array, 1339
- arrayOffset, 1340
- asReadOnlyBuffer, 1340
- compact, 1340
- duplicate, 1341
- FloatArrayBuffer, 1338, 1339
- get, 1341
- hasArray, 1342
- isReadOnly, 1342
- put, 1342
- setReadOnly, 1343
- slice, 1343
- decaf::internal::nio::IntArrayBuffer, 1408
 - ~IntArrayBuffer, 1410
 - array, 1410
 - arrayOffset, 1411
 - asReadOnlyBuffer, 1411
 - compact, 1411
 - duplicate, 1412
 - get, 1412
 - hasArray, 1413
 - IntArrayBuffer, 1409, 1410
 - isReadOnly, 1413
 - put, 1413
 - setReadOnly, 1414
 - slice, 1414
- decaf::internal::nio::LongArrayBuffer, 1664
 - ~LongArrayBuffer, 1666
 - array, 1666
 - arrayOffset, 1667
 - asReadOnlyBuffer, 1667
 - compact, 1667
 - duplicate, 1668
 - get, 1668
 - hasArray, 1669
 - isReadOnly, 1669
 - LongArrayBuffer, 1665, 1666
 - put, 1669, 1670
 - setReadOnly, 1670
 - slice, 1670
- decaf::internal::nio::ShortArrayBuffer, 2328
 - ~ShortArrayBuffer, 2330
 - array, 2330
 - arrayOffset, 2331
 - asReadOnlyBuffer, 2331
 - compact, 2331
 - duplicate, 2332
 - get, 2332
 - hasArray, 2333
 - isReadOnly, 2333
 - put, 2333, 2334
 - setReadOnly, 2334
 - ShortArrayBuffer, 2329, 2330
 - slice, 2334
- decaf::internal::util, 97
- decaf::internal::util::ByteArrayAdapter, 671
 - ~ByteArrayAdapter, 677
 - ByteArrayAdapter, 675–677
 - clear, 678
 - get, 678
 - getByteArray, 678
 - getCapacity, 678
 - getChar, 678
 - getCharArray, 679
 - getCharCapacity, 679
 - getDouble, 679
 - getDoubleArray, 679
 - getDoubleAt, 680
 - getDoubleCapacity, 680
 - getFloat, 680
 - getFloatArray, 681
 - getFloatAt, 681
 - getFloatCapacity, 681
 - getInt, 681
 - getIntArray, 682
 - getIntAt, 682
 - getIntCapacity, 682
 - getLong, 683
 - getLongArray, 683
 - getLongAt, 683
 - getLongCapacity, 684
 - getShort, 684
 - getShortArray, 684
 - getShortAt, 684
 - getShortCapacity, 685
 - operator[], 685
 - put, 685
 - putChar, 686
 - putDouble, 686
 - putDoubleAt, 687
 - putFloat, 687
 - putFloatAt, 687
 - putInt, 688
 - putIntAt, 688
 - putLong, 689
 - putLongAt, 689
 - putShort, 689
 - putShortAt, 690
 - read, 690
 - resize, 691
 - write, 691
- decaf::internal::util::HexStringParser, 1384
 - ~HexStringParser, 1384
 - HexStringParser, 1384
 - parse, 1384
 - parseDouble, 1384
 - parseFloat, 1385
- decaf::io, 98

- decaf::io::BlockingByteArrayInputStream, 564
 - ~BlockingByteArrayInputStream, 565
 - available, 566
 - BlockingByteArrayInputStream, 565
 - close, 566
 - lock, 566
 - mark, 566
 - markSupported, 566
 - notify, 567
 - notifyAll, 567
 - read, 567, 568
 - reset, 568
 - setByteArray, 568
 - skip, 568
 - unlock, 569
 - wait, 569
- decaf::io::BufferedInputStream, 631
 - ~BufferedInputStream, 632
 - available, 632
 - BufferedInputStream, 632
 - close, 632
 - mark, 633
 - markSupported, 633
 - read, 633, 634
 - reset, 634
 - skip, 634
- decaf::io::BufferedOutputStream, 636
 - ~BufferedOutputStream, 637
 - BufferedOutputStream, 636, 637
 - close, 637
 - flush, 637
 - write, 637, 638
- decaf::io::ByteArrayInputStream, 714
 - ~ByteArrayInputStream, 716
 - available, 716
 - ByteArrayInputStream, 715
 - close, 716
 - lock, 716
 - mark, 716
 - markSupported, 717
 - notify, 717
 - notifyAll, 717
 - read, 717, 718
 - reset, 718
 - setBuffer, 718
 - setByteArray, 718
 - skip, 719
 - unlock, 719
 - wait, 719, 720
- decaf::io::ByteArrayOutputStream, 721
 - ~ByteArrayOutputStream, 722
 - ByteArrayOutputStream, 722
 - close, 722
 - flush, 722
 - lock, 723
 - notify, 723
 - notifyAll, 723
 - reset, 723
 - setBuffer, 723
 - size, 724
 - toByteArray, 724
 - toString, 724
 - unlock, 724
 - wait, 724, 725
 - write, 725, 726
 - writeTo, 726
- decaf::io::Closeable, 838
 - ~Closeable, 838
 - close, 838
- decaf::io::DataInputStream, 1114
 - ~DataInputStream, 1116
 - DataInputStream, 1115
 - read, 1116
 - readBoolean, 1117
 - readByte, 1117
 - readChar, 1118
 - readDouble, 1118
 - readFloat, 1118
 - readFully, 1118, 1119
 - readInt, 1119
 - readLong, 1120
 - readShort, 1120
 - readString, 1120
 - readUnsignedByte, 1121
 - readUnsignedShort, 1121
 - readUTF, 1121
 - skip, 1122
- decaf::io::DataOutputStream, 1123
 - ~DataOutputStream, 1124
 - buffer, 1129
 - DataOutputStream, 1124
 - size, 1125
 - write, 1125
 - writeBoolean, 1126
 - writeByte, 1126
 - writeBytes, 1126
 - writeChar, 1126
 - writeChars, 1127
 - writeDouble, 1127
 - writeFloat, 1127
 - writeInt, 1128
 - writeLong, 1128
 - writeShort, 1128
 - writeUnsignedShort, 1128
 - writeUTF, 1129
 - written, 1129
- decaf::io::EOFException, 1263
 - ~EOFException, 1264

- clone, 1265
- EOFException, 1263, 1264
- decaf::io::FilterInputStream, 1313
 - ~FilterInputStream, 1314
 - available, 1315
 - close, 1315
 - closed, 1319
 - FilterInputStream, 1314
 - inputStream, 1319
 - isClosed, 1315
 - lock, 1315
 - mark, 1315
 - markSupported, 1316
 - mutex, 1319
 - notify, 1316
 - notifyAll, 1316
 - own, 1319
 - read, 1316, 1317
 - reset, 1317
 - skip, 1318
 - unlock, 1318
 - wait, 1319
- decaf::io::FilterOutputStream, 1320
 - ~FilterOutputStream, 1321
 - close, 1322
 - closed, 1325
 - FilterOutputStream, 1321
 - flush, 1322
 - isClosed, 1322
 - lock, 1322
 - mutex, 1325
 - notify, 1322
 - notifyAll, 1323
 - outputStream, 1325
 - own, 1325
 - unlock, 1323
 - wait, 1323
 - write, 1324
- decaf::io::InputStream, 1404
 - ~InputStream, 1405
 - available, 1405
 - mark, 1405
 - markSupported, 1405
 - read, 1405, 1406
 - reset, 1406
 - skip, 1407
- decaf::io::InterruptedIOException, 1460
 - ~InterruptedIOException, 1461
 - clone, 1462
 - InterruptedIOException, 1460, 1461
- decaf::io::IOException, 1475
 - ~IOException, 1476
 - clone, 1477
 - IOException, 1475, 1476
- decaf::io::OutputStream, 1990
 - ~OutputStream, 1990
 - flush, 1990
 - write, 1990, 1991
- decaf::io::Reader, 2163
 - ~Reader, 2163
 - getInputStream, 2163
 - read, 2163
 - readByte, 2163
 - setInputStream, 2164
- decaf::io::UTFDataFormatException, 2681
 - ~UTFDataFormatException, 2683
 - clone, 2683
 - UTFDataFormatException, 2681, 2682
- decaf::io::Writer, 2723
 - ~Writer, 2723
 - getOutputStream, 2723
 - setOutputStream, 2723
 - write, 2723
 - writeByte, 2724
- decaf::lang, 100
 - operator==, 101
- decaf::lang::Appendable, 482
 - ~Appendable, 482
 - append, 482, 483
- decaf::lang::AtomicRefCounter, 494
 - AtomicRefCounter, 494
 - release, 494
 - swap, 494
- decaf::lang::Boolean, 571
 - ~Boolean, 572
 - _FALSE, 575
 - _TRUE, 575
 - Boolean, 572
 - booleanValue, 572
 - compareTo, 572
 - equals, 573
 - operator<, 573
 - operator==, 574
 - parseBoolean, 574
 - toString, 574
 - valueOf, 575
- decaf::lang::Byte, 662
 - ~Byte, 664
 - Byte, 663
 - byteValue, 664
 - compareTo, 664
 - decode, 665
 - doubleValue, 665
 - equals, 665
 - floatValue, 665
 - intValue, 666
 - longValue, 666
 - MAX_VALUE, 670

- MIN_VALUE, 670
- operator<, 666
- operator==, 667
- parseByte, 667
- shortValue, 668
- SIZE, 670
- toString, 668
- valueOf, 668, 669
- decaf::lang::Character, 799
 - byteValue, 801
 - Character, 801
 - compareTo, 801
 - digit, 801
 - doubleValue, 802
 - equals, 802
 - floatValue, 802
 - intValue, 802
 - isDigit, 803
 - isISOControl, 803
 - isLetter, 803
 - isLetterOrDigit, 803
 - isLowerCase, 803
 - isUpperCase, 803
 - isWhitespace, 803
 - longValue, 803
 - MAX_RADIX, 805
 - MAX_VALUE, 805
 - MIN_RADIX, 805
 - MIN_VALUE, 806
 - operator<, 804
 - operator==, 804
 - shortValue, 805
 - SIZE, 806
 - toString, 805
 - valueOf, 805
- decaf::lang::CharSequence, 831
 - ~CharSequence, 831
 - charAt, 831
 - length, 832
 - subSequence, 832
 - toString, 832
- decaf::lang::Comparable, 897
 - ~Comparable, 897
 - compareTo, 897
 - equals, 898
 - operator<, 898
 - operator==, 898
- decaf::lang::Double, 1229
 - ~Double, 1231
 - byteValue, 1231
 - compare, 1231
 - compareTo, 1232
 - Double, 1231
 - doubleToLongBits, 1232
 - doubleToRawLongBits, 1233
 - doubleValue, 1233
 - equals, 1233, 1234
 - floatValue, 1234
 - intValue, 1234
 - isInfinite, 1234
 - isNaN, 1235
 - longBitsToDouble, 1235
 - longValue, 1235
 - MAX_VALUE, 1239
 - MIN_VALUE, 1239
 - NaN, 1239
 - NEGATIVE_INFINITY, 1239
 - operator<, 1235, 1236
 - operator==, 1236
 - parseDouble, 1236
 - POSITIVE_INFINITY, 1239
 - shortValue, 1237
 - SIZE, 1239
 - toHexString, 1237
 - toString, 1238
 - valueOf, 1238
- decaf::lang::DYNAMIC_CAST_TOKEN, 1259
- decaf::lang::Exception, 1266
 - ~Exception, 1268
 - buildMessage, 1269
 - cause, 1272
 - clone, 1269
 - Exception, 1267, 1268
 - getCause, 1269
 - getMessage, 1270
 - getStackTrace, 1270
 - getStackTraceString, 1270
 - initCause, 1270
 - message, 1272
 - operator=, 1270
 - printStackTrace, 1271
 - setMark, 1271
 - setMessage, 1271
 - setStackTrace, 1271
 - stackTrace, 1272
 - what, 1272
- decaf::lang::exceptions, 102
- decaf::lang::exceptions::ClassCastException, 833
 - ~ClassCastException, 834
 - ClassCastException, 833, 834
 - clone, 835
- decaf::lang::exceptions::IllegalArgumentException, 1391
 - ~IllegalArgumentException, 1392
 - clone, 1393
 - IllegalArgumentException, 1391, 1392

- decaf::lang::exceptions::IllegalMonitorStateException,
 - 1394
 - ~IllegalMonitorStateException, 1395
 - clone, 1396
 - IllegalMonitorStateException, 1394, 1395
- decaf::lang::exceptions::IllegalStateException,
 - 1398
 - ~IllegalStateException, 1399
 - clone, 1400
 - IllegalStateException, 1398, 1399
- decaf::lang::exceptions::IndexOutOfBoundsException,
 - 1401
 - ~IndexOutOfBoundsException, 1402
 - clone, 1403
 - IndexOutOfBoundsException, 1401, 1402
- decaf::lang::exceptions::InterruptedException,
 - 1457
 - ~InterruptedException, 1458
 - clone, 1459
 - InterruptedException, 1457, 1458
- decaf::lang::exceptions::InvalidStateException,
 - 1472
 - ~InvalidStateException, 1473
 - clone, 1474
 - InvalidStateException, 1472, 1473
- decaf::lang::exceptions::NoSuchElementException,
 - 1943
 - ~NoSuchElementException, 1944
 - clone, 1945
 - NoSuchElementException, 1943, 1944
- decaf::lang::exceptions::NullPointerException,
 - 1949
 - ~NullPointerException, 1950
 - clone, 1951
 - NullPointerException, 1949, 1950
- decaf::lang::exceptions::NumberFormatException,
 - 1955
 - ~NumberFormatException, 1957
 - clone, 1957
 - NumberFormatException, 1955, 1956
- decaf::lang::exceptions::RuntimeException,
 - 2257
 - ~RuntimeException, 2258
 - clone, 2259
 - RuntimeException, 2257, 2258
- decaf::lang::exceptions::UnsupportedOperationException,
 - 2633
 - ~UnsupportedOperationException, 2634
 - clone, 2635
 - UnsupportedOperationException, 2633, 2634
- decaf::lang::Float, 1326
 - ~Float, 1328
 - byteValue, 1328
 - compare, 1328
 - compareTo, 1329
 - doubleValue, 1329
 - equals, 1329, 1330
 - Float, 1328
 - floatToIntBits, 1330
 - floatToRawIntBits, 1330
 - floatValue, 1331
 - intBitsToFloat, 1331
 - intValue, 1331
 - isInfinite, 1331, 1332
 - isNaN, 1332
 - longValue, 1332
 - MAX_VALUE, 1336
 - MIN_VALUE, 1336
 - NaN, 1336
 - NEGATIVE_INFINITY, 1336
 - operator<, 1332, 1333
 - operator==, 1333
 - parseFloat, 1333
 - POSITIVE_INFINITY, 1336
 - shortValue, 1334
 - SIZE, 1336
 - toHexString, 1334
 - toString, 1334, 1335
 - valueOf, 1335
- decaf::lang::Integer, 1426
 - ~Integer, 1429
 - bitCount, 1429
 - byteValue, 1429
 - compareTo, 1429
 - decode, 1430
 - doubleValue, 1430
 - equals, 1430, 1431
 - floatValue, 1431
 - highestOneBit, 1431
 - Integer, 1428
 - intValue, 1431
 - longValue, 1431
 - lowestOneBit, 1432
 - MAX_VALUE, 1439
 - MIN_VALUE, 1439
 - numberOfLeadingZeros, 1432
 - numberOfTrailingZeros, 1432
 - operator<, 1433
 - operator==, 1433
 - parseInt, 1434
 - reverse, 1435
 - reverseBytes, 1435
 - rotateLeft, 1435
 - rotateRight, 1435
 - shortValue, 1436
 - signum, 1436
 - SIZE, 1439

- toBinaryString, 1436
- toHexString, 1437
- toOctalString, 1437
- toString, 1437, 1438
- valueOf, 1438, 1439
- decaf::lang::Iterable, 1485
 - ~Iterable, 1485
 - iterator, 1485
- decaf::lang::Long, 1650
 - ~Long, 1653
 - bitCount, 1653
 - byteValue, 1653
 - compareTo, 1653
 - decode, 1654
 - doubleValue, 1654
 - equals, 1654, 1655
 - floatValue, 1655
 - highestOneBit, 1655
 - intValue, 1655
 - Long, 1652
 - longValue, 1655
 - lowestOneBit, 1656
 - MAX_VALUE, 1663
 - MIN_VALUE, 1663
 - numberOfLeadingZeros, 1656
 - numberOfTrailingZeros, 1656
 - operator<, 1657
 - operator==, 1657
 - parseLong, 1658
 - reverse, 1658
 - reverseBytes, 1659
 - rotateLeft, 1659
 - rotateRight, 1659
 - shortValue, 1660
 - signum, 1660
 - SIZE, 1663
 - toBinaryString, 1660
 - toHexString, 1660
 - toOctalString, 1661
 - toString, 1661
 - valueOf, 1662
- decaf::lang::Math, 1716
 - ~Math, 1718
 - abs, 1718, 1719
 - ceil, 1719
 - E, 1730
 - floor, 1720
 - Math, 1718
 - max, 1720, 1721
 - min, 1722, 1723
 - PI, 1730
 - pow, 1724
 - random, 1724
 - round, 1725
 - signum, 1725, 1726
 - sqrt, 1727
 - toDegrees, 1730
 - toRadians, 1730
- decaf::lang::Number, 1952
 - ~Number, 1952
 - byteValue, 1952
 - doubleValue, 1953
 - floatValue, 1953
 - intValue, 1953
 - longValue, 1953
 - shortValue, 1954
- decaf::lang::Pointer, 2009
 - ~Pointer, 2012
 - CounterType, 2011
 - dynamicCast, 2012
 - get, 2012
 - operator*, 2013
 - operator->, 2013
 - operator=, 2014
 - operator==, 2014, 2015
 - Pointer, 2011, 2012
 - PointerType, 2011
 - ReferenceType, 2011
 - reset, 2014
 - staticCast, 2014
 - swap, 2014
- decaf::lang::PointerComparator, 2016
 - compare, 2016
 - operator(), 2016
- decaf::lang::Runnable, 2254
 - ~Runnable, 2254
 - run, 2254
- decaf::lang::Runtime, 2255
 - ~Runtime, 2255
 - getRuntime, 2255
 - initializeRuntime, 2255
 - shutdownRuntime, 2256
- decaf::lang::Short, 2319
 - ~Short, 2321
 - byteValue, 2321
 - compareTo, 2321
 - decode, 2322
 - doubleValue, 2322
 - equals, 2322
 - floatValue, 2322
 - intValue, 2323
 - longValue, 2323
 - MAX_VALUE, 2327
 - MIN_VALUE, 2327
 - operator<, 2323
 - operator==, 2324
 - parseShort, 2324
 - reverseBytes, 2325

- Short, 2320
- shortValue, 2325
- SIZE, 2327
- toString, 2325
- valueOf, 2326
- decaf::lang::STATIC_CAST_TOKEN, 2412
- decaf::lang::System, 2515
 - ~System, 2515
 - currentTimeMillis, 2515
 - getenv, 2515, 2516
 - nanoTime, 2516
 - setenv, 2516
 - System, 2515
 - unsetenv, 2517
- decaf::lang::Thread, 2542
 - ~Thread, 2543
 - getId, 2543
 - join, 2543
 - run, 2543
 - sleep, 2543
 - start, 2543
 - Thread, 2542
 - yield, 2543
- decaf::lang::Throwable, 2553
 - ~Throwable, 2554
 - clone, 2554
 - getCause, 2554
 - getMessage, 2555
 - getStackTrace, 2555
 - getStackTraceString, 2555
 - initCause, 2555
 - printStackTrace, 2556
 - setMark, 2556
 - Throwable, 2554
- decaf::net, 103
- decaf::net::BindException, 561
 - ~BindException, 562
 - BindException, 561, 562
 - clone, 563
- decaf::net::BufferedSocket, 639
 - ~BufferedSocket, 640
 - BufferedSocket, 640
 - close, 640
 - connect, 640
 - getInputStream, 641
 - getKeepAlive, 641
 - getOutputStream, 641
 - getReceiveBufferSize, 641
 - getReuseAddress, 642
 - getSendBufferSize, 642
 - getSoLinger, 642
 - getSoTimeout, 643
 - isConnected, 643
 - setKeepAlive, 643
 - setReceiveBufferSize, 643
 - setReuseAddress, 644
 - setSendBufferSize, 644
 - setSoLinger, 644
 - setSoTimeout, 645
- decaf::net::ConnectException, 936
 - ~ConnectException, 937
 - clone, 938
 - ConnectException, 936, 937
- decaf::net::HttpRetryException, 1388
 - ~HttpRetryException, 1389
 - clone, 1390
 - HttpRetryException, 1388, 1389
- decaf::net::MalformedURLException, 1684
 - ~MalformedURLException, 1685
 - clone, 1686
 - MalformedURLException, 1684, 1685
- decaf::net::NoRouteToHostException, 1937
 - ~NoRouteToHostException, 1938
 - clone, 1939
 - NoRouteToHostException, 1937, 1938
- decaf::net::PortUnreachableException, 2035
 - ~PortUnreachableException, 2036
 - clone, 2037
 - PortUnreachableException, 2035, 2036
- decaf::net::ProtocolException, 2148
 - ~ProtocolException, 2149
 - clone, 2150
 - ProtocolException, 2148, 2149
- decaf::net::ServerSocket, 2266
 - ~ServerSocket, 2266
 - accept, 2267
 - bind, 2267
 - close, 2267
 - isBound, 2267
 - ServerSocket, 2266
 - SocketAddress, 2266
 - SocketHandle, 2266
- decaf::net::Socket, 2369
 - ~Socket, 2370
 - connect, 2370
 - getInputStream, 2371
 - getKeepAlive, 2371
 - getOutputStream, 2371
 - getReceiveBufferSize, 2371
 - getReuseAddress, 2372
 - getSendBufferSize, 2372
 - getSoLinger, 2372
 - getSoTimeout, 2372
 - INVALID_SOCKET_HANDLE, 2375
 - isConnected, 2373
 - setKeepAlive, 2373
 - setReceiveBufferSize, 2373
 - setReuseAddress, 2374

- setSendBufferSize, 2374
- setSoLinger, 2374
- setSoTimeout, 2374
- SocketAddress, 2370
- SocketHandle, 2370
- decaf::net::SocketError, 2376
 - getErrorCode, 2376
 - getErrorString, 2376
- decaf::net::SocketException, 2377
 - ~SocketException, 2378
 - clone, 2378
 - SocketException, 2377, 2378
- decaf::net::SocketFactory, 2380
 - ~SocketFactory, 2380
 - createSocket, 2380
- decaf::net::SocketInputStream, 2382
 - ~SocketInputStream, 2383
 - available, 2383
 - close, 2383
 - lock, 2384
 - mark, 2384
 - markSupported, 2384
 - notify, 2384
 - notifyAll, 2384
 - read, 2385
 - reset, 2385
 - skip, 2386
 - SocketInputStream, 2383
 - unlock, 2386
 - wait, 2386, 2387
- decaf::net::SocketOutputStream, 2388
 - ~SocketOutputStream, 2389
 - close, 2389
 - flush, 2389
 - lock, 2389
 - notify, 2389
 - notifyAll, 2390
 - SocketOutputStream, 2389
 - unlock, 2390
 - wait, 2390
 - write, 2391
- decaf::net::SocketTimeoutException, 2393
 - ~SocketTimeoutException, 2394
 - clone, 2395
 - SocketTimeoutException, 2393, 2394
- decaf::net::TcpSocket, 2522
 - ~TcpSocket, 2524
 - checkResult, 2524
 - close, 2524
 - connect, 2524
 - getInputStream, 2525
 - getKeepAlive, 2525
 - getOutputStream, 2525
 - getReceiveBufferSize, 2525
 - getReuseAddress, 2526
 - getSendBufferSize, 2526
 - getSocketHandle, 2526
 - getSoLinger, 2526
 - getSoTimeout, 2526
 - getTcpNoDelay, 2527
 - isConnected, 2527
 - setKeepAlive, 2527
 - setReceiveBufferSize, 2527
 - setReuseAddress, 2528
 - setSendBufferSize, 2528
 - setSoLinger, 2528
 - setSoTimeout, 2528
 - setTcpNoDelay, 2529
 - TcpSocket, 2523
- decaf::net::UnknownHostException, 2627
 - ~UnknownHostException, 2628
 - clone, 2629
 - UnknownHostException, 2627, 2628
- decaf::net::UnknownServiceException, 2630
 - ~UnknownServiceException, 2631
 - clone, 2632
 - UnknownServiceException, 2630, 2631
- decaf::net::URI, 2636
 - ~URI, 2639
 - compareTo, 2640
 - create, 2640
 - equals, 2640
 - getAuthority, 2640
 - getFragment, 2640
 - getHost, 2640
 - getPath, 2641
 - getPort, 2641
 - getQuery, 2641
 - getRawAuthority, 2641
 - getRawFragment, 2641
 - getRawPath, 2641
 - getRawQuery, 2642
 - getRawSchemeSpecificPart, 2642
 - getRawUserInfo, 2642
 - getScheme, 2642
 - getSchemeSpecificPart, 2642
 - getUserInfo, 2642
 - isAbsolute, 2643
 - isOpaque, 2643
 - normalize, 2643
 - operator<, 2643
 - operator==, 2644
 - parseServerAuthority, 2644
 - relativize, 2644
 - resolve, 2645
 - toString, 2646
 - toURL, 2646
 - URI, 2638, 2639

- decaf::net::URISyntaxException, 2663
 - ~URISyntaxException, 2665
 - clone, 2665
 - getIndex, 2665
 - getInput, 2666
 - getReason, 2666
 - URISyntaxException, 2663–2665
- decaf::net::URL, 2675
 - ~URL, 2676
 - URL, 2676
- decaf::net::URLDecoder, 2677
 - ~URLDecoder, 2677
 - decode, 2677
- decaf::net::URLEncoder, 2678
 - ~URLEncoder, 2678
 - encode, 2678
- decaf::nio, 104
- decaf::nio::Buffer, 625
 - ~Buffer, 627
 - _capacity, 630
 - _limit, 630
 - _mark, 630
 - _markSet, 630
 - _position, 630
 - Buffer, 627
 - capacity, 627
 - clear, 627
 - flip, 628
 - hasRemaining, 628
 - isReadOnly, 628
 - limit, 628, 629
 - mark, 629
 - position, 629
 - remaining, 629
 - reset, 630
 - rewind, 630
- decaf::nio::BufferOverflowException, 656
 - ~BufferOverflowException, 657
 - BufferOverflowException, 656, 657
 - clone, 658
- decaf::nio::BufferUnderflowException, 659
 - ~BufferUnderflowException, 660
 - BufferUnderflowException, 659, 660
 - clone, 661
- decaf::nio::ByteBuffer, 732
 - ~ByteBuffer, 737
 - allocate, 737
 - array, 737
 - arrayOffset, 738
 - asCharBuffer, 738
 - asDoubleBuffer, 738
 - asFloatBuffer, 739
 - asIntBuffer, 739
 - asLongBuffer, 739
 - asReadOnlyBuffer, 740
 - asShortBuffer, 740
 - ByteBuffer, 737
 - compact, 740
 - compareTo, 741
 - duplicate, 741
 - equals, 741
 - get, 741, 742
 - getChar, 743
 - getDouble, 743, 744
 - getFloat, 744
 - getInt, 745
 - getLong, 745, 746
 - getShort, 746
 - hasArray, 747
 - isReadOnly, 747
 - operator<, 747
 - operator==, 747
 - put, 748, 749
 - putChar, 750
 - putDouble, 751
 - putFloat, 751, 752
 - putInt, 752, 753
 - putLong, 753
 - putShort, 754
 - slice, 755
 - toString, 755
 - wrap, 755
- decaf::nio::CharBuffer, 815
 - ~CharBuffer, 818
 - allocate, 818
 - append, 818, 819
 - array, 820
 - arrayOffset, 820
 - asReadOnlyBuffer, 820
 - charAt, 821
 - CharBuffer, 818
 - compact, 821
 - compareTo, 821
 - duplicate, 822
 - equals, 822
 - get, 822, 823
 - hasArray, 824
 - length, 824
 - operator<, 824
 - operator==, 824
 - put, 825–827
 - read, 828
 - slice, 828
 - subSequence, 828
 - toString, 829
 - wrap, 829
- decaf::nio::DoubleBuffer, 1248
 - ~DoubleBuffer, 1250

- allocate, 1250
- array, 1250
- arrayOffset, 1251
- asReadOnlyBuffer, 1251
- compact, 1251
- compareTo, 1252
- DoubleBuffer, 1250
- duplicate, 1252
- equals, 1252
- get, 1253, 1254
- hasArray, 1254
- operator<, 1254
- operator==, 1255
- put, 1255–1257
- slice, 1257
- toString, 1257
- wrap, 1257, 1258
- decaf::nio::FloatBuffer, 1344
 - ~FloatBuffer, 1346
 - allocate, 1346
 - array, 1346
 - arrayOffset, 1347
 - asReadOnlyBuffer, 1347
 - compact, 1347
 - compareTo, 1348
 - duplicate, 1348
 - equals, 1348
 - FloatBuffer, 1346
 - get, 1348–1350
 - hasArray, 1350
 - operator<, 1350
 - operator==, 1350
 - put, 1351, 1352
 - slice, 1353
 - toString, 1353
 - wrap, 1353, 1354
- decaf::nio::IntBuffer, 1415
 - ~IntBuffer, 1417
 - allocate, 1417
 - array, 1417
 - arrayOffset, 1418
 - asReadOnlyBuffer, 1418
 - compact, 1418
 - compareTo, 1419
 - duplicate, 1419
 - equals, 1419
 - get, 1419–1421
 - hasArray, 1421
 - IntBuffer, 1417
 - operator<, 1421
 - operator==, 1421
 - put, 1422, 1423
 - slice, 1424
 - toString, 1424
 - wrap, 1424, 1425
- decaf::nio::InvalidMarkException, 1468
 - ~InvalidMarkException, 1469
 - clone, 1470
 - InvalidMarkException, 1468, 1469
- decaf::nio::LongBuffer, 1672
 - ~LongBuffer, 1674
 - allocate, 1674
 - array, 1674
 - arrayOffset, 1675
 - asReadOnlyBuffer, 1675
 - compact, 1675
 - compareTo, 1676
 - duplicate, 1676
 - equals, 1676
 - get, 1677, 1678
 - hasArray, 1678
 - LongBuffer, 1674
 - operator<, 1678
 - operator==, 1679
 - put, 1679–1681
 - slice, 1681
 - toString, 1681
 - wrap, 1682
- decaf::nio::ReadOnlyBufferException, 2165
 - ~ReadOnlyBufferException, 2166
 - clone, 2167
 - ReadOnlyBufferException, 2165, 2166
- decaf::nio::ShortBuffer, 2336
 - ~ShortBuffer, 2338
 - allocate, 2338
 - array, 2338
 - arrayOffset, 2339
 - asReadOnlyBuffer, 2339
 - compact, 2339
 - compareTo, 2340
 - duplicate, 2340
 - equals, 2340
 - get, 2341, 2342
 - hasArray, 2342
 - operator<, 2342
 - operator==, 2343
 - put, 2343, 2344
 - ShortBuffer, 2338
 - slice, 2345
 - toString, 2345
 - wrap, 2345, 2346
- decaf::security, 105
- decaf::security::auth, 106
- decaf::security::auth::x500, 107
- decaf::security::auth::x500::X500Principal, 2725
 - ~X500Principal, 2725
 - getEncoded, 2725
 - getName, 2725

- hashCode, 2725
- decaf::security::cert, 108
- decaf::security::cert::Certificate, 785
 - ~Certificate, 786
 - equals, 786
 - getEncoded, 786
 - getPublicKey, 786
 - getType, 787
 - toString, 787
 - verify, 787
- decaf::security::cert::CertificateEncodingException, 789
 - ~CertificateEncodingException, 790
 - CertificateEncodingException, 789, 790
 - clone, 790
- decaf::security::cert::CertificateException, 791
 - ~CertificateException, 792
 - CertificateException, 791, 792
 - clone, 792
- decaf::security::cert::CertificateExpiredException, 793
 - ~CertificateExpiredException, 794
 - CertificateExpiredException, 793, 794
 - clone, 794
- decaf::security::cert::CertificateNotYetValidException, 795
 - ~CertificateNotYetValidException, 796
 - CertificateNotYetValidException, 795, 796
 - clone, 796
- decaf::security::cert::CertificateParsingException, 797
 - ~CertificateParsingException, 798
 - CertificateParsingException, 797, 798
 - clone, 798
- decaf::security::cert::X509Certificate, 2726
 - ~X509Certificate, 2726
 - checkValidity, 2726
 - getBasicConstraints, 2727
 - getIssuerUniqueID, 2727
 - getIssuerX500Principal, 2727
 - getKeyUsage, 2727
 - getNotAfter, 2727
 - getNotBefore, 2727
 - getSigAlgName, 2727
 - getSigAlgOID, 2727
 - getSigAlgParams, 2728
 - getSignature, 2728
 - getSubjectUniqueID, 2728
 - getSubjectX500Principal, 2728
 - getTBSCertificate, 2728
 - getVersion, 2728
- decaf::security::GeneralSecurityException, 1377
 - ~GeneralSecurityException, 1378
 - clone, 1379
 - GeneralSecurityException, 1377, 1378
- decaf::security::InvalidKeyException, 1465
 - ~InvalidKeyException, 1466
 - clone, 1467
 - InvalidKeyException, 1465, 1466
- decaf::security::Key, 1568
 - ~Key, 1569
 - getAlgorithm, 1569
 - getEncoded, 1569
 - getFormat, 1569
- decaf::security::KeyException, 1570
 - ~KeyException, 1571
 - clone, 1572
 - KeyException, 1570, 1571
- decaf::security::NoSuchAlgorithmException, 1940
 - ~NoSuchAlgorithmException, 1941
 - clone, 1942
 - NoSuchAlgorithmException, 1940, 1941
- decaf::security::NoSuchProviderException, 1946
 - ~NoSuchProviderException, 1947
 - clone, 1948
 - NoSuchProviderException, 1946, 1947
- decaf::security::Principal, 2082
 - ~Principal, 2082
 - equals, 2082
 - getName, 2082
- decaf::security::PublicKey, 2151
 - ~PublicKey, 2151
- decaf::security::SignatureException, 2362
 - ~SignatureException, 2363
 - clone, 2364
 - SignatureException, 2362, 2363
- decaf::security_provider, 109
- decaf::security_provider::SecurityProvider, 2260
 - ~SecurityProvider, 2260
 - createX500Principal, 2260
- decaf::security_provider::SecurityProviderMap, 2261
 - getInstance, 2261
 - getSecurityProviderNames, 2261
 - lookup, 2262
 - registerSecurityProvider, 2262
 - unregisterSecurityProvider, 2262
- decaf::security_provider::SecurityProviderRegistrar, 2263
 - ~SecurityProviderRegistrar, 2263
 - getProvider, 2264
 - SecurityProviderRegistrar, 2263
- decaf::security_provider::unix, 110
- decaf::security_provider::unix::openssl, 111
- decaf::security_provider::unix::openssl::OpenSSLX500Principal, 1959

- ~OpenSSLX500Principal, 1960
- equals, 1960
- getEncoded, 1960
- getName, 1960
- getX509Name, 1961
- OpenSSLX500Principal, 1959
- toString, 1961
- decaf::security_provider::unix::openssl::OpenSSLX509Certificate, 1962
 - ~OpenSSLX509Certificate, 1963
 - checkValidity, 1963
 - equals, 1963
 - getBasicConstraints, 1963
 - getEncoded, 1964
 - getIssuerUniqueID, 1964
 - getIssuerX500Principal, 1964
 - getKeyUsage, 1964
 - getNotAfter, 1964
 - getNotBefore, 1964
 - getPublicKey, 1964, 1965
 - getSigAlgName, 1965
 - getSigAlgOID, 1965
 - getSigAlgParams, 1965
 - getSignature, 1965
 - getSubjectUniqueID, 1965
 - getSubjectX500Principal, 1966
 - getTBSCertificate, 1966
 - getType, 1966
 - getVersion, 1966
 - toString, 1966
 - verify, 1966, 1967
- decaf::util, 112
- decaf::util::AbstractCollection, 121
 - ~AbstractCollection, 123
 - add, 123
 - addAll, 124
 - clear, 124
 - contains, 125
 - containsAll, 126
 - copy, 126
 - equals, 126
 - isEmpty, 126
 - lock, 127
 - mutex, 131
 - notify, 127
 - notifyAll, 127
 - operator=, 127
 - remove, 128
 - removeAll, 128
 - retainAll, 129
 - toArray, 130
 - unlock, 130
 - wait, 130
- decaf::util::AbstractList, 132
 - ~AbstractList, 132
- decaf::util::AbstractMap, 133
 - ~AbstractMap, 133
- decaf::util::AbstractQueue, 134
 - ~AbstractQueue, 135
 - AbstractQueue, 135
 - add, 135
 - addAll, 135
 - clear, 136
 - element, 136
 - remove, 136
- decaf::util::AbstractSequentialList, 138
 - ~AbstractSequentialList, 138
- decaf::util::AbstractSet, 139
 - ~AbstractSet, 139
 - removeAll, 139
- decaf::util::Collection, 869
 - ~Collection, 871
 - add, 871
 - addAll, 871
 - clear, 872
 - contains, 872
 - containsAll, 873
 - equals, 873
 - isEmpty, 874
 - remove, 874
 - removeAll, 875
 - retainAll, 875
 - size, 875
 - toArray, 876
- decaf::util::Comparator, 900
 - ~Comparator, 900
 - compare, 900
 - operator(), 901
- decaf::util::concurrent, 114
- decaf::util::concurrent::atomic, 116
- decaf::util::concurrent::atomic::AtomicBoolean, 486
 - ~AtomicBoolean, 486
 - AtomicBoolean, 486
 - compareAndSet, 487
 - get, 487
 - getAndSet, 487
 - set, 487
 - toString, 487
- decaf::util::concurrent::atomic::AtomicInteger, 489
 - ~AtomicInteger, 490
 - addAndGet, 490
 - AtomicInteger, 490
 - compareAndSet, 491
 - decrementAndGet, 491
 - doubleValue, 491
 - floatValue, 491

- get, 491
- getAndAdd, 492
- getAndDecrement, 492
- getAndIncrement, 492
- getAndSet, 492
- incrementAndGet, 492
- intValue, 493
- longValue, 493
- set, 493
- toString, 493
- decaf::util::concurrent::atomic::AtomicReference, 496
 - ~AtomicReference, 497
 - AtomicReference, 497
 - compareAndSet, 497
 - get, 497
 - getAndSet, 497
 - set, 497
 - toString, 498
- decaf::util::concurrent::BrokenBarrierException, 581
 - ~BrokenBarrierException, 582
 - BrokenBarrierException, 581, 582
 - clone, 583
- decaf::util::concurrent::Callable, 781
 - ~Callable, 781
 - call, 781
- decaf::util::concurrent::CancellationException, 782
 - ~CancellationException, 783
 - CancellationException, 782, 783
 - clone, 784
- decaf::util::concurrent::ConcurrentMap, 911
 - ~ConcurrentMap, 912
 - putIfAbsent, 912
 - remove, 912
 - replace, 913, 914
- decaf::util::concurrent::ConcurrentStlMap, 916
 - ~ConcurrentStlMap, 920
 - clear, 920
 - ConcurrentStlMap, 919, 920
 - containsKey, 920
 - containsValue, 921
 - copy, 921
 - equals, 922
 - get, 922
 - isEmpty, 923
 - keySet, 923
 - lock, 923
 - notify, 924
 - notifyAll, 924
 - put, 924
 - putAll, 925
 - putIfAbsent, 925
 - remove, 926
 - replace, 927
 - size, 928
 - unlock, 928
 - values, 928
 - wait, 929
- decaf::util::concurrent::CountDownLatch, 1097
 - ~CountDownLatch, 1097
 - await, 1097
 - countDown, 1098
 - CountDownLatch, 1097
 - getCount, 1098
- decaf::util::concurrent::Delayed, 1185
 - ~Delayed, 1185
 - getDelay, 1185
- decaf::util::concurrent::ExecutionException, 1289
 - ~ExecutionException, 1290
 - clone, 1291
 - ExecutionException, 1289, 1290
- decaf::util::concurrent::Executor, 1292
 - ~Executor, 1293
 - execute, 1293
- decaf::util::concurrent::Future, 1372
 - ~Future, 1373
 - cancel, 1373
 - get, 1373
 - isCancelled, 1374
 - isDone, 1374
- decaf::util::concurrent::Lock, 1614
 - ~Lock, 1614
 - isLocked, 1615
 - Lock, 1614
 - lock, 1615
 - unlock, 1615
- decaf::util::concurrent::locks, 117
- decaf::util::concurrent::locks::Condition, 930
 - ~Condition, 932
 - await, 932
 - awaitNanos, 933
 - awaitUninterruptibly, 934
 - signal, 934
 - signalAll, 935
- decaf::util::concurrent::locks::Lock, 1616
 - ~Lock, 1617
 - lock, 1617
 - lockInterruptibly, 1617
 - newCondition, 1618
 - tryLock, 1618, 1619
 - unlock, 1620
- decaf::util::concurrent::locks::ReadWriteLock, 2168
 - ~ReadWriteLock, 2169
 - readLock, 2169

- writeLock, 2169
- decaf::util::concurrent::Mutex, 1919
 - ~Mutex, 1919
 - lock, 1920
 - Mutex, 1919
 - notify, 1920
 - notifyAll, 1920
 - unlock, 1920
 - wait, 1921
- decaf::util::concurrent::PooledThread, 2030
 - ~PooledThread, 2030
 - getPooledThreadListener, 2031
 - isBusy, 2031
 - PooledThread, 2030
 - run, 2031
 - setPooledThreadListener, 2031
 - stop, 2031
- decaf::util::concurrent::PooledThreadListener, 2033
 - ~PooledThreadListener, 2033
 - onTaskCompleted, 2033
 - onTaskException, 2034
 - onTaskStarted, 2034
- decaf::util::concurrent::RejectedExecutionException, 2172
 - ~RejectedExecutionException, 2173
 - clone, 2174
 - RejectedExecutionException, 2172, 2173
- decaf::util::concurrent::Synchronizable, 2506
 - ~Synchronizable, 2506
 - lock, 2506
 - notify, 2507
 - notifyAll, 2508
 - unlock, 2510
 - wait, 2511, 2512
- decaf::util::concurrent::TaskListener, 2519
 - ~TaskListener, 2519
 - onTaskComplete, 2519
 - onTaskException, 2519
- decaf::util::concurrent::ThreadFactory, 2545
 - ~ThreadFactory, 2545
 - newThread, 2545
- decaf::util::concurrent::ThreadPool, 2547
 - ~ThreadPool, 2549
 - DEFAULT_MAX_BLOCK_SIZE, 2552
 - DEFAULT_MAX_POOL_SIZE, 2552
 - deQueueTask, 2549
 - getBacklog, 2549
 - getBlockSize, 2549
 - getFreeThreadCount, 2549
 - getInstance, 2550
 - getMaxThreads, 2550
 - getPoolSize, 2550
 - onTaskCompleted, 2550
 - onTaskException, 2550
 - onTaskStarted, 2551
 - queueTask, 2551
 - reserve, 2551
 - setBlockSize, 2551
 - setMaxThreads, 2551
 - Task, 2549
 - ThreadPool, 2549
- decaf::util::concurrent::TimeoutException, 2557
 - ~TimeoutException, 2558
 - clone, 2559
 - TimeoutException, 2557, 2558
- decaf::util::concurrent::TimeUnit, 2560
 - ~TimeUnit, 2562
 - compareTo, 2562
 - convert, 2562
 - DAYS, 2568
 - equals, 2563
 - HOURS, 2568
 - MICROSECONDS, 2568
 - MILLISECONDS, 2568
 - MINUTES, 2568
 - NANOSECONDS, 2568
 - operator<, 2563
 - operator==, 2563
 - SECONDS, 2568
 - sleep, 2563
 - timedWait, 2564
 - TimeUnit, 2562
 - toDays, 2564
 - toHours, 2565
 - toMicros, 2565
 - toMillis, 2565
 - toMinutes, 2566
 - toNanos, 2566
 - toSeconds, 2566
 - toString, 2567
 - valueOf, 2567
 - values, 2568
- decaf::util::Date, 1177
 - ~Date, 1178
 - after, 1178
 - before, 1178
 - Date, 1178
 - equals, 1178
 - getCurrentTimeMilliseconds, 1179
 - getTime, 1179
 - operator=, 1179
 - setTime, 1179
- decaf::util::Iterator, 1487
 - ~Iterator, 1487
 - hasNext, 1487
 - next, 1487
 - remove, 1488

- decaf::util::List, 1589
 - ~List, 1590
 - add, 1590
 - addAll, 1590
 - get, 1591
 - indexOf, 1591
 - lastIndexOf, 1592
 - listIterator, 1592, 1593
 - remove, 1593
 - set, 1594
- decaf::util::ListIterator, 1595
 - ~ListIterator, 1596
 - add, 1596
 - hasPrevious, 1596
 - nextIndex, 1596
 - previous, 1596
 - previousIndex, 1597
 - set, 1597
- decaf::util::logging, 118
 - Debug, 119
 - Error, 119
 - Fatal, 119
 - Info, 119
 - Level, 118
 - Markblock, 119
 - Null, 119
 - Off, 119
 - Throwing, 119
 - Warn, 119
- decaf::util::logging::Filter, 1312
 - ~Filter, 1312
 - isLoggable, 1312
- decaf::util::logging::Formatter, 1370
 - ~Formatter, 1370
 - format, 1370
 - formatMessage, 1370
 - getHead, 1371
 - getTail, 1371
- decaf::util::logging::Handler, 1380
 - ~Handler, 1381
 - flush, 1381
 - getFilter, 1381
 - getFormatter, 1381
 - getLevel, 1381
 - isLoggable, 1381
 - publish, 1382
 - setFilter, 1382
 - setFormatter, 1382
 - setLevel, 1382
- decaf::util::logging::Logger, 1621
 - ~Logger, 1623
 - addHandler, 1623
 - debug, 1623
 - entry, 1623
 - error, 1623
 - exit, 1624
 - fatal, 1624
 - getAnonymousLogger, 1624
 - getFilter, 1625
 - getLevel, 1625
 - getLogger, 1625
 - getName, 1625
 - getUseParentHandlers, 1625
 - info, 1626
 - isLoggable, 1626
 - log, 1626, 1627
 - Logger, 1622
 - removeHandler, 1627
 - setFilter, 1628
 - setLevel, 1628
 - setUseParentHandlers, 1628
 - warn, 1628
- decaf::util::logging::LoggerHierarchy, 1630
 - ~LoggerHierarchy, 1630
 - LoggerHierarchy, 1630
- decaf::util::logging::LogManager, 1638
 - ~LogManager, 1640
 - addPropertyChangeListener, 1640
 - destroy, 1640
 - getInstance, 1641
 - getLogger, 1641
 - getLoggerNames, 1641
 - getProperties, 1641
 - getProperty, 1641
 - LogManager, 1640
 - operator=, 1642
 - removePropertyChangeListener, 1642
 - returnInstance, 1642
 - setProperties, 1642
- decaf::util::logging::LogRecord, 1643
 - ~LogRecord, 1644
 - getLevel, 1644
 - getLoggerName, 1644
 - getMessage, 1644
 - getSourceFile, 1644
 - getSourceFunction, 1644
 - getSourceLine, 1645
 - getTimestamp, 1645
 - getTreadId, 1645
 - LogRecord, 1644
 - setLevel, 1645
 - setLoggerName, 1645
 - setMessage, 1645
 - setSourceFile, 1646
 - setSourceFunction, 1646
 - setSourceLine, 1646
 - setTimestamp, 1646
 - setTreadId, 1646

- decaf::util::logging::LogWriter, 1648
 - ~LogWriter, 1648
- destroy, 1648
- getInstance, 1648
- log, 1648, 1649
- LogWriter, 1648
- returnInstance, 1649
- decaf::util::logging::MarkBlockLogger, 1709
 - ~MarkBlockLogger, 1709
- MarkBlockLogger, 1709
- decaf::util::logging::PropertiesChangeListener, 2147
 - ~PropertiesChangeListener, 2147
- onPropertyChanged, 2147
- decaf::util::logging::SimpleFormatter, 2365
 - ~SimpleFormatter, 2365
- format, 2365
- formatMessage, 2365
- getHead, 2366
- getTail, 2366
- SimpleFormatter, 2365
- decaf::util::logging::SimpleLogger, 2367
 - ~SimpleLogger, 2367
- debug, 2368
- error, 2368
- fatal, 2368
- info, 2368
- log, 2368
- mark, 2368
- SimpleLogger, 2367
- warn, 2368
- decaf::util::logging::StreamHandler, 2470
 - ~StreamHandler, 2471
- close, 2471
- flush, 2471
- getFilter, 2471
- getFormatter, 2471
- getLevel, 2472
- getOutputStream, 2472
- isLoggable, 2472
- publish, 2472
- setFilter, 2472
- setFormatter, 2473
- setLevel, 2473
- StreamHandler, 2471
- decaf::util::Map, 1687
 - ~Map, 1688
- clear, 1688
- containsKey, 1689
- containsValue, 1690
- copy, 1690
- equals, 1691
- get, 1691, 1692
- isEmpty, 1693
- keySet, 1694
- Map, 1688
- put, 1694
- putAll, 1695
- remove, 1696
- size, 1697
- values, 1698
- decaf::util::Map::Entry, 1262
 - ~Entry, 1262
- Entry, 1262
- getKey, 1262
- getValue, 1262
- setValue, 1262
- decaf::util::Properties, 2138
 - ~Properties, 2140
- clear, 2140
- clone, 2140
- copy, 2140
- defaults, 2146
- equals, 2140
- getProperty, 2140, 2141
- hasProperty, 2141
- isEmpty, 2141
- load, 2141, 2143
- operator=, 2143
- Properties, 2140
- remove, 2144
- setProperty, 2144
- size, 2144
- store, 2144, 2145
- toArray, 2145
- toString, 2146
- decaf::util::Queue, 2152
 - ~Queue, 2153
- element, 2153
- getEmptyMarker, 2153
- offer, 2153
- peek, 2153
- poll, 2154
- remove, 2154
- decaf::util::Random, 2158
 - next, 2159
- nextBoolean, 2160
- nextBytes, 2160
- nextDouble, 2160
- nextFloat, 2160
- nextGaussian, 2160
- nextInt, 2161
- nextLong, 2161
- Random, 2159
- setSeed, 2162
- decaf::util::Set, 2318
 - ~Set, 2318
- decaf::util::StlList, 2414

- ~StlList, 2419
- add, 2419
- addAll, 2420
- clear, 2421
- contains, 2421
- copy, 2421
- equals, 2421
- get, 2422
- indexOf, 2422
- isEmpty, 2422
- iterator, 2423
- lastIndexOf, 2423
- listIterator, 2423, 2424
- remove, 2424, 2425
- set, 2425
- size, 2426
- StlList, 2418, 2419
- decaf::util::StlMap, 2427
 - ~StlMap, 2431
 - clear, 2431
 - containsKey, 2431
 - containsValue, 2431
 - copy, 2432
 - equals, 2432
 - get, 2432, 2433
 - isEmpty, 2433
 - keySet, 2433
 - lock, 2434
 - notify, 2434
 - notifyAll, 2434
 - put, 2434
 - putAll, 2435
 - remove, 2435
 - size, 2436
 - StlMap, 2430
 - unlock, 2436
 - values, 2436
 - wait, 2437
- decaf::util::StlQueue, 2438
 - ~StlQueue, 2440
 - back, 2440
 - clear, 2440
 - empty, 2440
 - enqueueFront, 2440
 - front, 2440, 2441
 - getSafeValue, 2441
 - iterator, 2441
 - lock, 2441
 - notify, 2441
 - notifyAll, 2442
 - pop, 2442
 - push, 2442
 - reverse, 2442
 - size, 2442
 - StlQueue, 2440
 - toArray, 2442
 - unlock, 2442
 - wait, 2443
- decaf::util::StlSet, 2444
 - ~StlSet, 2446
 - add, 2446
 - clear, 2447
 - contains, 2447
 - copy, 2448
 - equals, 2448
 - isEmpty, 2448
 - iterator, 2448
 - remove, 2449
 - size, 2449
 - StlSet, 2446
- decaf::util::StringTokenizer, 2486
 - ~StringTokenizer, 2487
 - countTokens, 2487
 - hasMoreTokens, 2487
 - nextToken, 2487
 - reset, 2488
 - StringTokenizer, 2486
 - toArray, 2488
- decaf::util::UUID, 2684
 - ~UUID, 2686
 - clockSequence, 2686
 - compareTo, 2686
 - equals, 2686
 - fromString, 2686
 - getLeastSignificantBits, 2687
 - getMostSignificantBits, 2687
 - nameUUIDFromBytes, 2687
 - node, 2687
 - operator<, 2688
 - operator==, 2688
 - randomUUID, 2688
 - timestamp, 2688
 - toString, 2689
 - UUID, 2685
 - variant, 2689
 - version, 2689
- DECAF_API
 - decaf/util/Config.h, 2898
- DECAF_CATCH_EXCEPTION_CONVERT
 - decaf/lang/exceptions/ExceptionDe-fines.h, 2848
- DECAF_CATCH_NOTHROW
 - decaf/lang/exceptions/ExceptionDe-fines.h, 2848
- DECAF_CATCH_RETHROW
 - decaf/lang/exceptions/ExceptionDe-fines.h, 2849
- DECAF_CATCHALL_NOTHROW

- decaf/lang/exceptions/ExceptionDefines.h, 2849
- DECAF_CATCHALL_THROW
 - decaf/lang/exceptions/ExceptionDefines.h, 2849
- DECAF_UNUSED
 - decaf/util/Config.h, 2898
- DecafRuntime
 - decaf::internal::DecafRuntime, 1180
- decode
 - decaf::internal::net::URLEncoderDecoder, 2647
 - decaf::lang::Byte, 665
 - decaf::lang::Integer, 1430
 - decaf::lang::Long, 1654
 - decaf::lang::Short, 2322
 - decaf::net::URLDecoder, 2677
- decreaseUsage
 - activemq::util::MemoryUsage, 1732
 - activemq::util::Usage, 2679
- decrementAndGet
 - decaf::util::concurrent::atomic::AtomicInteger, 491
- DedicatedTaskRunner
 - activemq::threads::DedicatedTaskRunner, 1181
- DEFAULT_MAX_BLOCK_SIZE
 - decaf::util::concurrent::ThreadPool, 2552
- DEFAULT_MAX_POOL_SIZE
 - decaf::util::concurrent::ThreadPool, 2552
- DEFAULT_MESSAGE_SIZE
 - activemq::commands::Message, 1749
- DEFAULT_ORDERED_TARGET
 - activemq::commands::ActiveMQDestination, 236
- DEFAULT_PRIORITY
 - activemq::cmsutil::CmsTemplate, 868
- DEFAULT_TIME_TO_LIVE
 - activemq::cmsutil::CmsTemplate, 868
- DEFAULT_VERSION
 - activemq::wireformat::openwire::OpenWireFormat, 1979
- defaults
 - decaf::util::Properties, 2146
- deliverAcks
 - activemq::core::ActiveMQConsumer, 220
 - activemq::core::ActiveMQSession, 360
- deliverySequenceId
 - activemq::commands::MessageDispatchNotification, 1826
- dequeue
 - activemq::core::ActiveMQConsumer, 220
 - activemq::core::MessageDispatchChannel, 1804
- dequeueNoWait
 - activemq::core::MessageDispatchChannel, 1804
- deQueueTask
 - decaf::util::concurrent::ThreadPool, 2549
- destination
 - activemq::cmsutil::CmsTemplate::ProducerExecutor, 2102
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2171
 - activemq::commands::ConsumerInfo, 1067
 - activemq::commands::DestinationInfo, 1196
 - activemq::commands::JournalQueueAck, 1491
 - activemq::commands::JournalTopicAck, 1509
 - activemq::commands::Message, 1749
 - activemq::commands::MessageAck, 1780
 - activemq::commands::MessageDispatch, 1802
 - activemq::commands::MessageDispatchNotification, 1826
 - activemq::commands::MessagePull, 1895
 - activemq::commands::ProducerInfo, 2124
 - activemq::commands::SubscriptionInfo, 2493
- DESTINATION_ADD_OPERATION
 - activemq::core::ActiveMQConstants, 215
- DESTINATION_REMOVE_OPERATION
 - activemq::core::ActiveMQConstants, 215
- DestinationActions
 - activemq::core::ActiveMQConstants, 215
- DestinationInfo
 - activemq::commands::DestinationInfo, 1193
- DestinationInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::DestinationInfo, 1202
 - activemq::wireformat::openwire::marshal::v2::DestinationInfo, 1206
 - activemq::wireformat::openwire::marshal::v3::DestinationInfo, 1198
- DestinationOption
 - activemq::core::ActiveMQConstants, 215
- DestinationType
 - cms::Destination, 1188
- destOptionMap
 - activemq::core::ActiveMQConstants::StaticInitializer, 2413
- destOptions
 - activemq::core::ActiveMQConstants::StaticInitializer, 2413
- destroy

- activemq::cmsutil::CmsAccessor, 843
- activemq::cmsutil::CmsDestinationAccessor, 846
- activemq::cmsutil::CmsTemplate, 859
- activemq::cmsutil::DestinationResolver, 1209
- activemq::cmsutil::DynamicDestinationResolver, 1260
- activemq::cmsutil::ResourceLifecycleManager, 2227
- activemq::commands::ActiveMQTempQueue, 415
- activemq::commands::ActiveMQTempTopic, 432
- cms::TemporaryQueue, 2536
- cms::TemporaryTopic, 2538
- decaf::util::logging::LogManager, 1640
- decaf::util::logging::LogWriter, 1648
- destroyDestination
 - activemq::core::ActiveMQConnection, 192
- destroyMarshallers
 - activemq::wireformat::openwire::OpenWireFormat, 1971
- digit
 - decaf::lang::Character, 801
- DISCONNECT
 - activemq::wireformat::stomp::StompCommand, 2452
- DiscoveryEvent
 - activemq::commands::DiscoveryEvent, 1212
- DiscoveryEventMarshaller
 - activemq::wireformat::openwire::marshal::v1::DiscoveryEventMarshaller, 1220
 - activemq::wireformat::openwire::marshal::v2::DiscoveryEventMarshaller, 1224
 - activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller, 1216
- dispatch
 - activemq::core::ActiveMQConsumer, 221
 - activemq::core::ActiveMQSession, 360
 - activemq::core::Dispatcher, 1228
- dispatchAsync
 - activemq::commands::ConsumerInfo, 1067
 - activemq::commands::ProducerInfo, 2124
- DispatchData
 - activemq::core::DispatchData, 1227
- disposeOf
 - activemq::core::ActiveMQConnection, 193
 - activemq::core::ActiveMQSession, 361
- doClose
 - activemq::core::ActiveMQConsumer, 221
- doCreateComposite
 - activemq::transport::failover::FailoverTransportFactory, 1307
 - activemq::transport::mock::MockTransportFactory, 1917
 - activemq::transport::tcp::TcpTransportFactory, 2534
- doInCms
 - activemq::cmsutil::CmsTemplate::ProducerExecutor, 2101
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2170
 - activemq::cmsutil::CmsTemplate::SendExecutor, 2265
 - activemq::cmsutil::ProducerCallback, 2100
 - activemq::cmsutil::SessionCallback, 2281
- doStartTransaction
 - activemq::core::ActiveMQSession, 361
- Double
 - decaf::lang::Double, 1231
- DOUBLE_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- DoubleArrayBuffer
 - decaf::internal::nio::DoubleArrayBuffer, 1241, 1242
- DoubleBuffer
 - decaf::nio::DoubleBuffer, 1250
- doubleToLongBits
 - decaf::lang::Double, 1232
- doubleToRawLongBits
 - decaf::lang::Double, 1233
- doubleValue
 - activemq::util::PrimitiveValueNode::PrimitiveValue, 2065
 - decaf::lang::Byte, 665
 - decaf::lang::Character, 802
 - decaf::lang::Double, 1233
 - decaf::lang::Integer, 1430
 - decaf::lang::Long, 1654
 - decaf::lang::Number, 1953
 - decaf::lang::Short, 2322
 - decaf::util::concurrent::atomic::AtomicInteger, 491
- doUnmarshal
 - activemq::wireformat::openwire::OpenWireFormat, 1971
- droppable
 - activemq::commands::Message, 1749
- duplexConnection
 - activemq::commands::BrokerInfo, 612
- duplicate
 - decaf::internal::nio::ByteBuffer, 701
 - decaf::internal::nio::CharArrayBuffer, 811

- decaf::internal::nio::DoubleArrayBuffer, 1244
- decaf::internal::nio::FloatArrayBuffer, 1341
- decaf::internal::nio::IntArrayBuffer, 1412
- decaf::internal::nio::LongArrayBuffer, 1668
- decaf::internal::nio::ShortArrayBuffer, 2332
- decaf::nio::ByteBuffer, 741
- decaf::nio::CharBuffer, 822
- decaf::nio::DoubleBuffer, 1252
- decaf::nio::FloatBuffer, 1348
- decaf::nio::IntBuffer, 1419
- decaf::nio::LongBuffer, 1676
- decaf::nio::ShortBuffer, 2340
- DUPS_OK_ACKNOWLEDGE
 - cms::Session, 2271
- dynamicCast
 - decaf::lang::Pointer, 2012
- E
 - decaf::lang::Math, 1730
- element
 - decaf::util::AbstractQueue, 136
 - decaf::util::Queue, 2153
- empty
 - decaf::util::StlQueue, 2440
- encode
 - decaf::net::URLEncoder, 2678
- encodeOthers
 - decaf::internal::net::URLEncoderDecoder, 2648
- enqueue
 - activemq::core::MessageDispatchChannel, 1805
- enqueueFirst
 - activemq::core::MessageDispatchChannel, 1805
- enqueueFront
 - decaf::util::StlQueue, 2440
- enqueueUsage
 - activemq::util::MemoryUsage, 1732
 - activemq::util::Usage, 2679
- Entry
 - decaf::util::Map::Entry, 1262
- entry
 - decaf::util::logging::Logger, 1623
- EOFException
 - decaf::io::EOFException, 1263, 1264
- equals
 - activemq::commands::ActiveMQBlobMessage, 146
 - activemq::commands::ActiveMQBytesMessage, 165
 - activemq::commands::ActiveMQDestination, 230
 - activemq::commands::ActiveMQMapMessage, 256
 - activemq::commands::ActiveMQMessage, 278
 - activemq::commands::ActiveMQObjectMessage, 309
 - activemq::commands::ActiveMQQueue, 336
 - activemq::commands::ActiveMQStreamMessage, 375
 - activemq::commands::ActiveMQTempDestination, 398
 - activemq::commands::ActiveMQTempQueue, 415
 - activemq::commands::ActiveMQTempTopic, 432
 - activemq::commands::ActiveMQTextMessage, 448
 - activemq::commands::ActiveMQTopic, 464
 - activemq::commands::BaseCommand, 506
 - activemq::commands::BaseDataStructure, 557
 - activemq::commands::BooleanExpression, 577
 - activemq::commands::BrokerId, 591
 - activemq::commands::BrokerInfo, 607
 - activemq::commands::ConnectionControl, 944
 - activemq::commands::ConnectionError, 961
 - activemq::commands::ConnectionId, 980, 981
 - activemq::commands::ConnectionInfo, 997
 - activemq::commands::ConsumerControl, 1027
 - activemq::commands::ConsumerId, 1045
 - activemq::commands::ConsumerInfo, 1062
 - activemq::commands::ControlCommand, 1082
 - activemq::commands::DataArrayResponse, 1100
 - activemq::commands::DataResponse, 1131
 - activemq::commands::DataStructure, 1173
 - activemq::commands::DestinationInfo, 1193
 - activemq::commands::DiscoveryEvent, 1212
 - activemq::commands::ExceptionResponse, 1275
 - activemq::commands::FlushCommand, 1356

- activemq::commands::IntegerResponse, 1441
- activemq::commands::JournalQueueAck, 1490
- activemq::commands::JournalTopicAck, 1506
- activemq::commands::JournalTrace, 1523
- activemq::commands::JournalTransaction, 1538
- activemq::commands::KeepAliveInfo, 1554
- activemq::commands::LastPartialCommand, 1574
- activemq::commands::LocalTransactionId, 1599, 1600
- activemq::commands::Message, 1740
- activemq::commands::MessageAck, 1776
- activemq::commands::MessageDispatch, 1799
- activemq::commands::MessageDispatchNotification, 1822
- activemq::commands::MessageId, 1842
- activemq::commands::MessagePull, 1892
- activemq::commands::NetworkBridgeFilter, 1923
- activemq::commands::PartialCommand, 1994
- activemq::commands::ProducerAck, 2085
- activemq::commands::ProducerId, 2105
- activemq::commands::ProducerInfo, 2121
- activemq::commands::RemoveInfo, 2176
- activemq::commands::RemoveSubscriptionInfo, 2192
- activemq::commands::ReplayCommand, 2209
- activemq::commands::Response, 2230
- activemq::commands::SessionId, 2284
- activemq::commands::SessionInfo, 2299
- activemq::commands::ShutdownInfo, 2348
- activemq::commands::SubscriptionInfo, 2490
- activemq::commands::TransactionId, 2572
- activemq::commands::TransactionInfo, 2588
- activemq::commands::WireFormatInfo, 2700
- activemq::commands::XATransactionId, 2731
- decaf::lang::Boolean, 573
- decaf::lang::Byte, 665
- decaf::lang::Character, 802
- decaf::lang::Comparable, 898
- decaf::lang::Double, 1233, 1234
- decaf::lang::Float, 1329, 1330
- decaf::lang::Integer, 1430, 1431
- decaf::lang::Long, 1654, 1655
- decaf::lang::Short, 2322
- decaf::net::URI, 2640
- decaf::nio::ByteBuffer, 741
- decaf::nio::CharBuffer, 822
- decaf::nio::DoubleBuffer, 1252
- decaf::nio::FloatBuffer, 1348
- decaf::nio::IntBuffer, 1419
- decaf::nio::LongBuffer, 1676
- decaf::nio::ShortBuffer, 2340
- decaf::security::cert::Certificate, 786
- decaf::security::Principal, 2082
- decaf::security_-
 - provider::unix::openssl::OpenSSLX500Principal, 1960
- decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1963
- decaf::util::AbstractCollection, 126
- decaf::util::Collection, 873
- decaf::util::concurrent::ConcurrentStlMap, 922
- decaf::util::concurrent::TimeUnit, 2563
- decaf::util::Date, 1178
- decaf::util::Map, 1691
- decaf::util::Properties, 2140
- decaf::util::StlList, 2421
- decaf::util::StlMap, 2432
- decaf::util::StlSet, 2448
- decaf::util::UUID, 2686
- Error
 - decaf::util::logging, 119
- error
 - decaf::util::logging::Logger, 1623
 - decaf::util::logging::SimpleLogger, 2368
- ERROR_CMD
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- Exception
 - decaf::lang::Exception, 1267, 1268
- exception
 - activemq::commands::ConnectionError, 963
 - activemq::commands::ExceptionResponse, 1276
- ExceptionResponse
 - activemq::commands::ExceptionResponse, 1275
- ExceptionResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::ExceptionResponse, 1282
 - activemq::wireformat::openwire::marshal::v2::ExceptionResponse, 1286

- activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller, 1278
- exclusive
 - activemq::commands::ActiveMQDestination, 236
 - activemq::commands::ConsumerInfo, 1067
- execute
 - activemq::cmsutil::CmsTemplate, 859, 860
 - activemq::core::ActiveMQSessionExecutor, 368
 - decaf::util::concurrent::Executor, 1293
- executeFirst
 - activemq::core::ActiveMQSessionExecutor, 368
- ExecutionException
 - decaf::util::concurrent::ExecutionException, 1289, 1290
- exit
 - activemq::commands::ConnectionControl, 947
 - decaf::util::logging::Logger, 1624
- expiration
 - activemq::commands::Message, 1749
- FailoverTransport
 - activemq::transport::failover::FailoverTransport, 1296
- FailoverTransportListener
 - activemq::transport::failover::FailoverTransportListener, 1305
 - activemq::transport::failover::FailoverTransportListener, 1310
- Fatal
 - decaf::util::logging, 119
- fatal
 - decaf::util::logging::Logger, 1624
 - decaf::util::logging::SimpleLogger, 2368
- faultTolerant
 - activemq::commands::ConnectionControl, 947
- faultTolerantConfiguration
 - activemq::commands::BrokerInfo, 612
- FileName
 - activemq::commands::BrokerError::StackTraceElement, 2396
- FilterInputStream
 - decaf::io::FilterInputStream, 1314
- FilterOutputStream
 - decaf::io::FilterOutputStream, 1321
- findFactory
 - activemq::transport::TransportRegistry, 2625
 - activemq::wireformat::WireFormatRegistry, 2721
- fire
 - activemq::core::ActiveMQConnection, 193
 - activemq::core::ActiveMQSession, 361
 - activemq::transport::TransportFilter, 2616
- fireCommand
 - activemq::transport::mock::MockTransport, 1910
- fireException
 - activemq::transport::mock::MockTransport, 1910
- firstMessageId
 - activemq::commands::MessageAck, 1780
- firstNakNumber
 - activemq::commands::ReplayCommand, 2211
- flip
 - decaf::nio::Buffer, 628
- Float
 - decaf::lang::Float, 1328
- FLOAT_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- FloatArrayBuffer
 - decaf::internal::nio::FloatArrayBuffer, 1338, 1339
- FloatBuffer
 - decaf::nio::FloatBuffer, 1346
- floatToIntBits
 - decaf::lang::Float, 1330
- floatToRawIntBits
 - decaf::lang::Float, 1330
- floatToShort
 - activemq::util::PrimitiveValueNode::PrimitiveValue, 2065
- decaf::lang::Byte, 665
- decaf::lang::Character, 802
- decaf::lang::Double, 1234
- decaf::lang::Float, 1331
- decaf::lang::Integer, 1431
- decaf::lang::Long, 1655
- decaf::lang::Number, 1953
- decaf::lang::Short, 2322
- decaf::util::concurrent::atomic::AtomicInteger, 491
- decaf::lang::Math, 1720
- flush
 - activemq::commands::ConsumerControl, 1030
 - decaf::internal::io::StandardErrorOutputStream, 2398
 - decaf::internal::io::StandardOutputStream, 2408
 - decaf::io::BufferedOutputStream, 637
 - decaf::io::ByteArrayOutputStream, 722

- decaf::io::FilterOutputStream, 1322
- decaf::io::OutputStream, 1990
- decaf::net::SocketOutputStream, 2389
- decaf::util::logging::Handler, 1381
- decaf::util::logging::StreamHandler, 2471
- FlushCommand
 - activemq::commands::FlushCommand, 1356
- FlushCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller, 1359
 - activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller, 1367
 - activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller, 1363
- format
 - decaf::util::logging::Formatter, 1370
 - decaf::util::logging::SimpleFormatter, 2365
- formatId
 - activemq::commands::XATransactionId, 2733
- formatMessage
 - decaf::util::logging::Formatter, 1370
 - decaf::util::logging::SimpleFormatter, 2365
- fromStream
 - activemq::wireformat::stomp::StompFrame, 2455
- fromString
 - decaf::util::UUID, 2686
- front
 - decaf::util::StlQueue, 2440, 2441
- FutureResponse
 - activemq::transport::correlator::FutureResponse, 1375
- GeneralSecurityException
 - decaf::security::GeneralSecurityException, 1377, 1378
- get
 - decaf::internal::nio::ByteBuffer, 701, 702
 - decaf::internal::nio::CharArrayBuffer, 811, 812
 - decaf::internal::nio::DoubleArrayBuffer, 1244
 - decaf::internal::nio::FloatArrayBuffer, 1341
 - decaf::internal::nio::IntArrayBuffer, 1412
 - decaf::internal::nio::LongArrayBuffer, 1668
 - decaf::internal::nio::ShortArrayBuffer, 2332
 - decaf::internal::util::ByteArrayAdapter, 678
 - decaf::lang::Pointer, 2012
 - decaf::nio::ByteBuffer, 741, 742
 - decaf::nio::CharBuffer, 822, 823
 - decaf::nio::DoubleBuffer, 1253, 1254
 - decaf::nio::FloatBuffer, 1348–1350
 - decaf::nio::IntBuffer, 1419–1421
 - decaf::nio::LongBuffer, 1677, 1678
 - decaf::nio::ShortBuffer, 2341, 2342
 - decaf::util::concurrent::atomic::AtomicBoolean, 487
 - decaf::util::concurrent::atomic::AtomicInteger, 491
 - decaf::util::concurrent::atomic::AtomicReference, 497
 - decaf::util::concurrent::ConcurrentStlMap, 922
 - decaf::util::concurrent::Future, 1373
 - decaf::util::List, 1591
 - decaf::util::Map, 1691, 1692
 - decaf::util::StlList, 2422
 - decaf::util::StlMap, 2432, 2433
- getAckHandler
 - activemq::commands::Message, 1740
- getAckMode
 - activemq::commands::SessionInfo, 2299
- getAcknowledgeMode
 - activemq::cmsutil::PooledSession, 2027
 - activemq::core::ActiveMQSession, 362
 - cms::Session, 2278
- getAckType
 - activemq::commands::MessageAck, 1777
- getAdditionalPredicate
 - activemq::commands::ConsumerInfo, 1063
- getAlgorithm
 - decaf::security::Key, 1569
- getAndAdd
 - decaf::util::concurrent::atomic::AtomicInteger, 492
- getAndDecrement
 - decaf::util::concurrent::atomic::AtomicInteger, 492
- getAndIncrement
 - decaf::util::concurrent::atomic::AtomicInteger, 492
- getAndSet
 - decaf::util::concurrent::atomic::AtomicBoolean, 487
 - decaf::util::concurrent::atomic::AtomicInteger, 492
 - decaf::util::concurrent::atomic::AtomicReference, 497
- getAnonymousLogger
 - decaf::util::logging::Logger, 1624
- getAprPool
 - decaf::internal::AprPool, 484
- getArrival

- activemq::commands::Message, 1740
- getAuthority
 - decaf::internal::net::URIType, 2669
 - decaf::net::URI, 2640
- getBacklog
 - decaf::util::concurrent::ThreadPool, 2549
- getBackOffMultiplier
 - activemq::transport::failover::FailoverTransport, 1297
- getBackup
 - activemq::transport::failover::BackupTransportPool, 503
- getBackupPoolSize
 - activemq::transport::failover::BackupTransportPool, 503
 - activemq::transport::failover::FailoverTransport, 1298
- getBasicConstraints
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1963
- getBlockSize
 - decaf::util::concurrent::ThreadPool, 2549
- getBody
 - activemq::wireformat::stomp::StompFrame, 2456
- getBodyBytes
 - activemq::commands::ActiveMQBytesMessage, 165
 - cms::BytesMessage, 760
- getBodyLength
 - activemq::commands::ActiveMQBytesMessage, 165
 - activemq::wireformat::stomp::StompFrame, 2456
 - cms::BytesMessage, 760
- getBool
 - activemq::util::PrimitiveList, 2041
 - activemq::util::PrimitiveMap, 2052
 - activemq::util::PrimitiveValueNode, 2074
- getBoolean
 - activemq::commands::ActiveMQMapMessage, 257
 - cms::MapMessage, 1701
- getBooleanProperty
 - activemq::commands::ActiveMQMessageTemplate, 296
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1885
 - cms::Message, 1756
- getBranchQualifier
 - activemq::commands::XATransactionId, 2731
- getBrokerId
 - activemq::commands::BrokerInfo, 607, 608
- getBrokerInTime
 - activemq::commands::Message, 1741
- getBrokerName
 - activemq::commands::BrokerInfo, 608
 - activemq::commands::DiscoveryEvent, 1212, 1213
- getBrokerOutTime
 - activemq::commands::Message, 1741
- getBrokerPath
 - activemq::commands::ConnectionInfo, 997
 - activemq::commands::ConsumerInfo, 1063
 - activemq::commands::DestinationInfo, 1194
 - activemq::commands::Message, 1741
 - activemq::commands::ProducerInfo, 2122
- getBrokerSequenceId
 - activemq::commands::MessageId, 1843
- getBrokerUploadUrl
 - activemq::commands::BrokerInfo, 608
- getBrokerURL
 - activemq::commands::BrokerInfo, 608
 - activemq::core::ActiveMQConnectionFactory, 201
- getBytes
 - activemq::commands::ActiveMQMapMessage, 257
 - activemq::util::PrimitiveList, 2041
 - activemq::util::PrimitiveMap, 2052
 - activemq::util::PrimitiveValueNode, 2075
 - cms::MapMessage, 1701
- getByteArray
 - activemq::util::PrimitiveList, 2041
 - activemq::util::PrimitiveMap, 2052
 - activemq::util::PrimitiveValueNode, 2075
 - decaf::internal::util::ByteArrayAdapter, 678
- getByteProperty
 - activemq::commands::ActiveMQMessageTemplate, 296
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1885
 - cms::Message, 1757
- getBytes
 - activemq::commands::ActiveMQMapMessage, 257
 - cms::MapMessage, 1702
 - activemq::core::ActiveMQConnectionFactory, 201
 - activemq::commands::WireFormatInfo, 2700
 - activemq::wireformat::openwire::OpenWireFormat, 1972
- getCapacity

- decaf::internal::util::ByteArrayAdapter, 678
- getCause
 - activemq::commands::BrokerError, 585
 - cms::CMSException, 849
 - decaf::lang::Exception, 1269
 - decaf::lang::Throwable, 2554
- getChar
 - activemq::commands::ActiveMQMapMessage, 258
 - activemq::util::PrimitiveList, 2042
 - activemq::util::PrimitiveMap, 2053
 - activemq::util::PrimitiveValueNode, 2075
 - cms::MapMessage, 1702
 - decaf::internal::nio::ByteBuffer, 702
 - decaf::internal::util::ByteArrayAdapter, 678
 - decaf::nio::ByteBuffer, 743
- getCharArray
 - decaf::internal::util::ByteArrayAdapter, 679
- getCharCapacity
 - decaf::internal::util::ByteArrayAdapter, 679
- getClientID
 - activemq::core::ActiveMQConnection, 193
 - cms::Connection, 941
- getClientId
 - activemq::commands::ActiveMQDestination, 231
 - activemq::commands::ConnectionInfo, 997
 - activemq::commands::JournalTopicAck, 1507
 - activemq::commands::RemoveSubscriptionInfo, 2193
 - activemq::commands::SubscriptionInfo, 2491
 - activemq::core::ActiveMQConnectionSupport, 209
- getCloseTimeout
 - activemq::core::ActiveMQConnectionSupport, 209
- getCluster
 - activemq::commands::Message, 1741
- getCMSCorrelationID
 - activemq::commands::ActiveMQMessageTemplate, 296
 - cms::Message, 1757
- getCMSDeliveryMode
 - activemq::commands::ActiveMQMessageTemplate, 297
 - cms::Message, 1758
- getCMSDestination
 - activemq::commands::ActiveMQDestination, 231
 - activemq::commands::ActiveMQMessageTemplate, 297
 - activemq::commands::ActiveMQQueue, 337
 - activemq::commands::ActiveMQTempQueue, 415
 - activemq::commands::ActiveMQTempTopic, 432
 - activemq::commands::ActiveMQTopic, 465
 - cms::Message, 1758
- getCMSExpiration
 - activemq::commands::ActiveMQMessageTemplate, 297
 - cms::Message, 1759
- getCMSMajorVersion
 - activemq::core::ActiveMQConnectionMetaData, 204
 - cms::ConnectionMetaData, 1014
- getCMSMessageID
 - activemq::commands::ActiveMQMessageTemplate, 297
 - cms::Message, 1759
- getCMSMinorVersion
 - activemq::core::ActiveMQConnectionMetaData, 204
 - cms::ConnectionMetaData, 1014
- getCMSPriority
 - activemq::commands::ActiveMQMessageTemplate, 298
 - cms::Message, 1760
- getCMSProperties
 - activemq::commands::ActiveMQQueue, 337
 - activemq::commands::ActiveMQTempQueue, 415
 - activemq::commands::ActiveMQTempTopic, 432
 - activemq::commands::ActiveMQTopic, 465
 - cms::Destination, 1189
- getCMSProviderName
 - activemq::core::ActiveMQConnectionMetaData, 204
 - cms::ConnectionMetaData, 1014
- getCMSRedelivered
 - activemq::commands::ActiveMQMessageTemplate, 298
 - cms::Message, 1760
- getCMSReplyTo
 - activemq::commands::ActiveMQMessageTemplate, 298
 - cms::Message, 1761
- getCMSTimeStamp
 - activemq::commands::ActiveMQMessageTemplate, 297
 - cms::Message, 1759

- activemq::commands::ActiveMQMessageTemplate, 299
- cms::Message, 1761
- getCMSType
 - activemq::commands::ActiveMQMessageTemplate, 299
 - cms::Message, 1762
- getCMSVersion
 - activemq::core::ActiveMQConnectionMetaData, 205
 - cms::ConnectionMetaData, 1014
- getCMSXPathPropertyNames
 - activemq::core::ActiveMQConnectionMetaData, 205
 - cms::ConnectionMetaData, 1015
- getCommand
 - activemq::commands::ControlCommand, 1082, 1083
 - activemq::wireformat::stomp::StompFrame, 2456
- getCommandId
 - activemq::commands::BaseCommand, 507
 - activemq::commands::Command, 878
 - activemq::commands::PartialCommand, 1994
- getCommands
 - activemq::state::TransactionState, 2605
- getComponents
 - activemq::util::CompositeData, 903
- getConnection
 - activemq::core::ActiveMQSession, 362
- getConnectionFactory
 - activemq::cmsutil::CmsAccessor, 843
- getConnectionId
 - activemq::commands::BrokerInfo, 608
 - activemq::commands::ConnectionError, 961, 962
 - activemq::commands::ConnectionInfo, 997
 - activemq::commands::ConsumerId, 1045
 - activemq::commands::DestinationInfo, 1194
 - activemq::commands::LocalTransactionId, 1600
 - activemq::commands::ProducerId, 2105
 - activemq::commands::RemoveSubscriptionInfo, 2193
 - activemq::commands::SessionId, 2284
 - activemq::commands::TransactionInfo, 2588, 2589
 - activemq::core::ActiveMQConnection, 193
- getConnectionInfo
 - activemq::core::ActiveMQConnection, 194
- getConsumerId
 - activemq::commands::ActiveMQMessageTemplate, 299
 - activemq::commands::ConsumerControl, 1028
 - activemq::commands::ConsumerInfo, 1063
 - activemq::commands::MessageAck, 1777
 - activemq::commands::MessageDispatch, 1800
 - activemq::commands::MessageDispatchNotification, 1823
 - activemq::commands::MessagePull, 1893
 - activemq::core::ActiveMQConsumer, 221
 - activemq::core::DispatchData, 1227
- getConsumerInfo
 - activemq::core::ActiveMQConsumer, 221
- getConsumerState
 - activemq::state::SessionState, 2317
- getConsumerStates
 - activemq::state::SessionState, 2317
- getContent
 - activemq::commands::Message, 1741
- getCorrelationId
 - activemq::commands::Message, 1741
 - activemq::commands::MessagePull, 1893
 - activemq::commands::Response, 2231
- getCount
 - decaf::util::concurrent::CountDownLatch, 1098
- getCurrentTimeMilliseconds
 - decaf::util::Date, 1179
- getData
 - activemq::commands::DataArrayResponse, 1100, 1101
 - activemq::commands::DataResponse, 1131, 1132
 - activemq::commands::PartialCommand, 1995
- getDataStructure
 - activemq::commands::Message, 1741
- getDataStructureType
 - activemq::commands::ActiveMQBlobMessage, 146
 - activemq::commands::ActiveMQBytesMessage, 165
 - activemq::commands::ActiveMQDestination, 231
 - activemq::commands::ActiveMQMapMessage, 258
 - activemq::commands::ActiveMQMessage, 278
 - activemq::commands::ActiveMQObjectMessage, 310
 - activemq::commands::ActiveMQQueue, 337
 - activemq::commands::ActiveMQStreamMessage, 375

- activemq::commands::ActiveMQTempDestination, 399
- activemq::commands::ActiveMQTempQueue, 416
- activemq::commands::ActiveMQTempTopic, 433
- activemq::commands::ActiveMQTextMessage, 449
- activemq::commands::ActiveMQTopic, 465
- activemq::commands::BrokerError, 586
- activemq::commands::BrokerId, 591
- activemq::commands::BrokerInfo, 608
- activemq::commands::ConnectionControl, 945
- activemq::commands::ConnectionError, 962
- activemq::commands::ConnectionId, 981
- activemq::commands::ConnectionInfo, 997
- activemq::commands::ConsumerControl, 1028
- activemq::commands::ConsumerId, 1045
- activemq::commands::ConsumerInfo, 1063
- activemq::commands::ControlCommand, 1083
- activemq::commands::DataArrayResponse, 1101
- activemq::commands::DataResponse, 1132
- activemq::commands::DataStructure, 1174
- activemq::commands::DestinationInfo, 1194
- activemq::commands::DiscoveryEvent, 1213
- activemq::commands::ExceptionResponse, 1275
- activemq::commands::FlushCommand, 1356
- activemq::commands::IntegerResponse, 1441
- activemq::commands::JournalQueueAck, 1490
- activemq::commands::JournalTopicAck, 1507
- activemq::commands::JournalTrace, 1523
- activemq::commands::JournalTransaction, 1538
- activemq::commands::KeepAliveInfo, 1554
- activemq::commands::LastPartialCommand, 1574
- activemq::commands::LocalTransactionId, 1600
- activemq::commands::Message, 1741
- activemq::commands::MessageAck, 1777
- activemq::commands::MessageDispatch, 1800
- activemq::commands::MessageDispatchNotification, 1823
- activemq::commands::MessageId, 1843
- activemq::commands::MessagePull, 1893
- activemq::commands::NetworkBridgeFilter, 1923
- activemq::commands::PartialCommand, 1995
- activemq::commands::ProducerAck, 2085
- activemq::commands::ProducerId, 2105
- activemq::commands::ProducerInfo, 2122
- activemq::commands::RemoveInfo, 2176
- activemq::commands::RemoveSubscriptionInfo, 2193
- activemq::commands::ReplayCommand, 2209
- activemq::commands::Response, 2231
- activemq::commands::SessionId, 2284
- activemq::commands::SessionInfo, 2300
- activemq::commands::ShutdownInfo, 2348
- activemq::commands::SubscriptionInfo, 2491
- activemq::commands::TransactionId, 2573
- activemq::commands::TransactionInfo, 2589
- activemq::commands::WireFormatInfo, 2701
- activemq::commands::XATransactionId, 2731
- activemq::wireformat::openwire::marshal::DataStreamMarshal, 1149
- activemq::wireformat::openwire::marshal::v1::ActiveMQBlobM, 154
- activemq::wireformat::openwire::marshal::v1::ActiveMQBytesL, 181
- activemq::wireformat::openwire::marshal::v1::ActiveMQMapM, 270
- activemq::wireformat::openwire::marshal::v1::ActiveMQMessa, 285
- activemq::wireformat::openwire::marshal::v1::ActiveMQObject, 316
- activemq::wireformat::openwire::marshal::v1::ActiveMQQueue, 344
- activemq::wireformat::openwire::marshal::v1::ActiveMQStream, 390
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempC, 423
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempT, 440
- activemq::wireformat::openwire::marshal::v1::ActiveMQTextM, 456
- activemq::wireformat::openwire::marshal::v1::ActiveMQTopicL, 472

activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller	598	activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller	1847
activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller	618	activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller	1905
activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller	953	activemq::wireformat::openwire::marshal::v1::NetworkBridgeFormat	1934
activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller	969	activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller	2006
activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller	988	activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller	2093
activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller	1006	activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller	2117
activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller	1036	activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller	2134
activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller	1053	activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller	2184
activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller	1073	activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionMarshaller	2205
activemq::wireformat::openwire::marshal::v1::ContainerCommandMarshaller	1086	activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller	2221
activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller	1107	activemq::wireformat::openwire::marshal::v1::ResponseMarshaller	2250
activemq::wireformat::openwire::marshal::v1::DataResponseV2Marshaller	1138	activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	2287
activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller	1202	activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller	2303
activemq::wireformat::openwire::marshal::v1::DiscoveryInfoMarshaller	1220	activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller	2355
activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller	1282	activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller	2495
activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller	1359	activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller	2601
activemq::wireformat::openwire::marshal::v1::IntegrationResponseMarshaller	1448	activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller	2716
activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller	1498	activemq::wireformat::openwire::marshal::v1::XATransactionInfoMarshaller	2735
activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller	1519	activemq::wireformat::openwire::marshal::v2::ActiveMQBlobMarshaller	158
activemq::wireformat::openwire::marshal::v1::JournalTransactionInfoMarshaller	1534	activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMarshaller	185
activemq::wireformat::openwire::marshal::v1::JournalTransactionInfoV2Marshaller	1550	activemq::wireformat::openwire::marshal::v2::ActiveMQMapMarshaller	274
activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller	1565	activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller	289
activemq::wireformat::openwire::marshal::v1::LastReceivedCommandMarshaller	1581	activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMarshaller	320
activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller	1611	activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller	348
activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller	1790	activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMarshaller	394
activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller	1818	activemq::wireformat::openwire::marshal::v2::ActiveMQTempMarshaller	427
activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller	1832	activemq::wireformat::openwire::marshal::v2::ActiveMQTempMarshaller	444

activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller	1810
460	
activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMessageMarshaller	1828
476	
activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller	1855
602	
activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller	1897
622	
activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller	1930
957	
activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller	1998
973	
activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller	2097
992	
activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller	2109
1010	
activemq::wireformat::openwire::marshal::v2::ConsumerGroupMarshaller	2126
1040	
activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller	2180
1057	
activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller	2197
1077	
activemq::wireformat::openwire::marshal::v2::ContactGroupMarshaller	2213
1094	
activemq::wireformat::openwire::marshal::v2::DataActiveResponseMarshaller	2240
1111	
activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller	2295
1142	
activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller	2307
1206	
activemq::wireformat::openwire::marshal::v2::DiscardInfoMarshaller	2351
1224	
activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller	2503
1286	
activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller	2593
1367	
activemq::wireformat::openwire::marshal::v2::IntegrationResponseMarshaller	2712
1444	
activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller	2743
1494	
activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller	150
1511	
activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller	177
1526	
activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller	266
1542	
activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller	281
1561	
activemq::wireformat::openwire::marshal::v2::LastReceivedCommandMarshaller	312
1585	
activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller	340
1603	
activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller	386
1782	

activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller,	1607	activemq::core::LocalTransaction
419		
activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller,	1786	activemq::core::MessageAckMarsh
436		
activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller,	1814	activemq::core::MessageDispatch
452		
activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMessageMarshaller,	1836	activemq::core::MessageDispatch
468		
activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller,	1851	activemq::core::MessageIdMarsh
594		
activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller,	1901	activemq::core::MessagePullMar
614		
activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller,	1926	activemq::core::NetworkBridgeF
949		
activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller,	2002	activemq::core::PartialCommand
965		
activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller,	2089	activemq::core::ProducerAckMar
984		
activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller,	2113	activemq::core::ProducerIdMar
1002		
activemq::wireformat::openwire::marshal::v3::ConsumerGroupWithMarshaller,	2130	activemq::core::ProducerInfoMa
1032		
activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller,	2188	activemq::core::RemoveInfoMar
1049		
activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller,	2201	activemq::core::RemoveSubscrip
1069		
activemq::wireformat::openwire::marshal::v3::ContactCommandMarshaller,	2217	activemq::core::ReplayCommand
1090		
activemq::wireformat::openwire::marshal::v3::DataActiveResponseMarshaller,	2245	activemq::core::ResponseMarsha
1103		
activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller,	2291	activemq::core::SessionIdMarsha
1134		
activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller,	2311	activemq::core::SessionInfoMar
1198		
activemq::wireformat::openwire::marshal::v3::DiscardResponseMarshaller,	2359	activemq::core::ShutdownInfoMa
1216		
activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller,	2499	activemq::core::SubscriptionInfo
1278		
activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller,	2597	activemq::core::TransactionInfo
1363		
activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller,	2708	activemq::core::WireFormatInfo
1452		
activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller,	2739	activemq::core::XATransactionI
1502		
activemq::wireformat::openwire::marshal::v3::JmsDestinationMarshaller,		
1515	activemq::cmsutil::CmsTemplate,	860, 861
activemq::wireformat::openwire::marshal::v3::JmsDestinationMarshallerName		
1530	activemq::cmsutil::CmsTemplate,	861
activemq::wireformat::openwire::marshal::v3::JmsHeaderTransactionMarshaller,		
1546	decaf::util::concurrent::Delayed,	1185
activemq::wireformat::openwire::marshal::v3::KeepAliveJmsMarshaller,		
1557	activemq::cmsutil::CachedProducer,	776
activemq::wireformat::openwire::marshal::v3::LastBatchedCommandMarshaller,		
1577	activemq::core::ActiveMQProducer,	325

- cms::MessageProducer, 1877
- getDeliverySequenceId
 - activemq::commands::MessageDispatchNotification, 1823
- getDestination
 - activemq::cmsutil::CmsTemplate::ProducerExecutor, 2101
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2171
 - activemq::cmsutil::CmsTemplate::ResolveProducerExecutor, 2224
 - activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor, 2225
- activemq::commands::ConsumerInfo, 1063, 1064
- activemq::commands::DestinationInfo, 1194, 1195
- activemq::commands::JournalQueueAck, 1491
- activemq::commands::JournalTopicAck, 1507, 1508
- activemq::commands::Message, 1742
- activemq::commands::MessageAck, 1777, 1778
- activemq::commands::MessageDispatch, 1800, 1801
- activemq::commands::MessageDispatchNotification, 1824
- activemq::commands::MessagePull, 1893, 1894
- activemq::commands::ProducerInfo, 2122, 2123
- activemq::commands::SubscriptionInfo, 2491, 2492
- getDestinationResolver
 - activemq::cmsutil::CmsDestinationAccessor, 846
- getDestinationType
 - activemq::commands::ActiveMQDestination, 232
 - activemq::commands::ActiveMQQueue, 337
 - activemq::commands::ActiveMQTempQueue, 416
 - activemq::commands::ActiveMQTempTopic, 433
 - activemq::commands::ActiveMQTopic, 465
 - cms::Destination, 1189
- getDisableMessageID
 - activemq::cmsutil::CachedProducer, 776
 - activemq::core::ActiveMQProducer, 325
 - cms::MessageProducer, 1877
- getDisableMessageTimeStamp
 - activemq::cmsutil::CachedProducer, 777
- activemq::core::ActiveMQProducer, 325
- cms::MessageProducer, 1878
- getDouble
 - activemq::commands::ActiveMQMapMessage, 258
- activemq::util::PrimitiveList, 2042
- activemq::util::PrimitiveMap, 2053
- activemq::util::PrimitiveValueNode, 2075
- cms::MapMessage, 1702
- decaf::internal::nio::ByteBuffer, 703
- decaf::internal::util::ByteArrayAdapter, 679
- decaf::nio::ByteBuffer, 743, 744
- getDoubleArray
 - decaf::internal::util::ByteArrayAdapter, 679
- getDoubleAt
 - decaf::internal::util::ByteArrayAdapter, 680
- getDoubleCapacity
 - decaf::internal::util::ByteArrayAdapter, 680
- getDoubleProperty
 - activemq::commands::ActiveMQMessageTemplate, 299
 - activemq::wireformat::openwire::utils::MessagePropertyInterpreter, 1885
- cms::Message, 1762
- getEmptyMarker
 - decaf::util::Queue, 2153
- getEncoded
 - decaf::security::auth::x500::X500Principal, 2725
 - decaf::security::cert::Certificate, 786
 - decaf::security::Key, 1569
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX500Principal, 1960
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1964
- getEnumeration
 - cms::QueueBrowser, 2156
- getenv
 - decaf::lang::System, 2515, 2516
- getErrorCode
 - decaf::net::SocketError, 2376
- getErrorString
 - decaf::net::SocketError, 2376
- getException
 - activemq::commands::ConnectionError, 962
 - activemq::commands::ExceptionResponse, 1276

- getExceptionClass
 - activemq::commands::BrokerError, 586
- getExceptionListener
 - activemq::core::ActiveMQConnection, 194
 - activemq::core::ActiveMQSession, 362
 - cms::Connection, 941
- getExpiration
 - activemq::commands::Message, 1742
- getFilter
 - decaf::util::logging::Handler, 1381
 - decaf::util::logging::Logger, 1625
 - decaf::util::logging::StreamHandler, 2471
- getFirstMessageId
 - activemq::commands::MessageAck, 1778
- getFirstNakNumber
 - activemq::commands::ReplayCommand, 2210
- getFloat
 - activemq::commands::ActiveMQMapMessage, 258
 - activemq::util::PrimitiveList, 2043
 - activemq::util::PrimitiveMap, 2053
 - activemq::util::PrimitiveValueNode, 2076
 - cms::MapMessage, 1702
 - decaf::internal::nio::ByteBuffer, 703, 704
 - decaf::internal::util::ByteArrayAdapter, 680
 - decaf::nio::ByteBuffer, 744
- getFloatArray
 - decaf::internal::util::ByteArrayAdapter, 681
- getFloatAt
 - decaf::internal::util::ByteArrayAdapter, 681
- getFloatCapacity
 - decaf::internal::util::ByteArrayAdapter, 681
- getFloatProperty
 - activemq::commands::ActiveMQMessageTemplate, 299
 - activemq::wireformat::openwire::utils::MessageProperty, 1886
 - cms::Message, 1763
- getFormat
 - decaf::security::Key, 1569
- getFormatId
 - activemq::commands::XATransactionId, 2731
- getFormatter
 - decaf::util::logging::Handler, 1381
 - decaf::util::logging::StreamHandler, 2471
- getFragment
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2669
 - decaf::net::URI, 2640
- getFreeThreadCount
 - decaf::util::concurrent::ThreadPool, 2549
- getGlobalPool
 - decaf::internal::AprPool, 484
 - decaf::internal::DecafRuntime, 1180
- getGlobalTransactionId
 - activemq::commands::XATransactionId, 2732
- getGroupID
 - activemq::commands::Message, 1742
- getGroupSequence
 - activemq::commands::Message, 1742
- getHead
 - decaf::util::logging::Formatter, 1371
 - decaf::util::logging::SimpleFormatter, 2366
- getHost
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2669
 - decaf::net::URI, 2640
- getId
 - activemq::state::TransactionState, 2605
 - decaf::lang::Thread, 2543
- getIndex
 - decaf::net::URISyntaxException, 2665
- getInfo
 - activemq::state::ConnectionState, 1018
 - activemq::state::ConsumerState, 1080
 - activemq::state::ProducerState, 2137
 - activemq::state::SessionState, 2317
- getInitialReconnectDelay
 - activemq::transport::failover::FailoverTransport, 1298
- getInput
 - decaf::net::URISyntaxException, 2666
- getInputStream
 - decaf::io::Reader, 2163
 - decaf::net::BufferedSocket, 641
 - decaf::net::Socket, 2371
 - decaf::net::TcpSocket, 2525
- getInterceptor
 - activemq::transport::mock::MockTransport, 1910
 - activemq::transport::TransportRegistry, 2625
 - activemq::wireformat::WireFormatRegistry, 2721
 - decaf::security_ -
 - provider::SecurityProviderMap, 2261
 - decaf::util::concurrent::ThreadPool, 2550
 - decaf::util::logging::LogManager, 1641
 - decaf::util::logging::LogWriter, 1648
- getInt

- activemq::commands::ActiveMQMapMessagegetLeastSignificantBits
 - 259
- activemq::util::PrimitiveList, 2043
- activemq::util::PrimitiveMap, 2054
- activemq::util::PrimitiveValueNode, 2076
- cms::MapMessage, 1703
- decaf::internal::nio::ByteBuffer, 704
- decaf::internal::util::ByteArrayAdapter,
 - 681
- decaf::nio::ByteBuffer, 745
- getIntArray
 - decaf::internal::util::ByteArrayAdapter, 682
- getIntAt
 - decaf::internal::util::ByteArrayAdapter, 682
- getIntCapacity
 - decaf::internal::util::ByteArrayAdapter, 682
- getIntProperty
 - activemq::commands::ActiveMQMessageTemplate, 300
 - activemq::wireformat::openwire::utils::MessageProperty, 1886
 - cms::Message, 1763
- getIssuerUniqueID
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security__-
 - provider::unix::openssl::OpenSSLX509Certificate, 1964
- getIssuerX500Principal
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security__-
 - provider::unix::openssl::OpenSSLX509Certificate, 1964
- getKeepAlive
 - decaf::net::BufferedSocket, 641
 - decaf::net::Socket, 2371
 - decaf::net::TcpSocket, 2525
- getKey
 - decaf::util::Map::Entry, 1262
- getKeyUsage
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security__-
 - provider::unix::openssl::OpenSSLX509Certificate, 1964
- getLastMessageId
 - activemq::commands::MessageAck, 1778
- getLastNakNumber
 - activemq::commands::ReplayCommand, 2210
- getLastSequenceId
 - activemq::util::LongSequenceGenerator, 1683
- decaf::util::UUID, 2687
- getLevel
 - decaf::util::logging::Handler, 1381
 - decaf::util::logging::Logger, 1625
 - decaf::util::logging::LogRecord, 1644
 - decaf::util::logging::StreamHandler, 2472
- getLimit
 - activemq::util::MemoryUsage, 1732
- getList
 - activemq::commands::ActiveMQStreamMessage, 375, 376
 - activemq::util::PrimitiveValueNode, 2076
- getLogger
 - decaf::util::logging::Logger, 1625
 - decaf::util::logging::LogManager, 1641
- getLoggerName
 - decaf::util::logging::LogRecord, 1644
- getLoggerNames
 - decaf::util::logging::LogManager, 1641
- getLong
 - activemq::commands::ActiveMQMapMessage, 259
 - activemq::util::PrimitiveList, 2043
 - activemq::util::PrimitiveMap, 2054
 - activemq::util::PrimitiveValueNode, 2076
 - cms::MapMessage, 1703
 - decaf::internal::nio::ByteBuffer, 705
 - decaf::internal::util::ByteArrayAdapter, 683
 - decaf::nio::ByteBuffer, 745, 746
- getLongArray
 - decaf::internal::util::ByteArrayAdapter, 683
- getLongAt
 - decaf::internal::util::ByteArrayAdapter, 683
- getLongCapacity
 - decaf::internal::util::ByteArrayAdapter, 684
- getLongProperty
 - activemq::commands::ActiveMQMessageTemplate, 300
 - activemq::wireformat::openwire::utils::MessageProperty, 1886
 - cms::Message, 1764
- getMagic
 - activemq::commands::WireFormatInfo, 2701
- getMap
 - activemq::commands::ActiveMQMapMessage, 259
 - activemq::util::PrimitiveValueNode, 2077
- getMapNames

- activemq::commands::ActiveMQMapMessage, 259
- cms::MapMessage, 1703
- getMarshaledForm
 - activemq::commands::BaseDataStructure, 557
 - activemq::wireformat::MarshalAware, 1711
- getMarshaledProperties
 - activemq::commands::Message, 1742
 - activemq::commands::WireFormatInfo, 2701
- getMaxCacheSize
 - activemq::state::ConnectionStateTracker, 1022
 - activemq::transport::failover::FailoverTransport, 1298
- getMaximumPendingMessageLimit
 - activemq::commands::ConsumerInfo, 1064
- getMaximumRedeliveries
 - activemq::core::ActiveMQTransactionContext, 480
- getMaxInactivityDuration
 - activemq::commands::WireFormatInfo, 2701
 - activemq::wireformat::openwire::OpenWireFormat, 1972
- getMaxInactivityDurationInitalDelay
 - activemq::commands::WireFormatInfo, 2701
- getMaxInactivityDurationInitialDelay
 - activemq::wireformat::openwire::OpenWireFormat, 1972
- getMaxReconnectAttempts
 - activemq::transport::failover::FailoverTransport, 1298
- getMaxReconnectDelay
 - activemq::transport::failover::FailoverTransport, 1298
- getMaxThreads
 - decaf::util::concurrent::ThreadPool, 2550
- getMessage
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2171
 - activemq::commands::BrokerError, 586
 - activemq::commands::JournalTrace, 1523, 1524
 - activemq::commands::MessageDispatch, 1801
 - activemq::core::DispatchData, 1227
 - cms::CMSException, 849
 - decaf::lang::Exception, 1270
 - decaf::lang::Throwable, 2555
 - decaf::util::logging::LogRecord, 1644
- getMessageAck
 - activemq::commands::ActiveMQMapMessage, 259
 - activemq::commands::JournalQueueAck, 1491
 - getMessageCount
 - activemq::commands::MessageAck, 1778
 - getMessageId
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::Message, 1742
 - activemq::commands::MessageDispatchNotification, 1824
 - activemq::commands::MessagePull, 1894
 - getMessageListener
 - activemq::cmsutil::CachedConsumer, 772
 - activemq::core::ActiveMQConsumer, 221
 - cms::MessageConsumer, 1794
 - getMessageProperties
 - activemq::commands::Message, 1742
 - getMessageSelector
 - activemq::cmsutil::CachedConsumer, 772
 - activemq::core::ActiveMQConsumer, 222
 - cms::MessageConsumer, 1794
 - cms::QueueBrowser, 2156
 - getMessageSequenceId
 - activemq::commands::JournalTopicAck, 1508
 - getMetaData
 - activemq::core::ActiveMQConnection, 194
 - cms::Connection, 941
 - getMimeType
 - activemq::commands::ActiveMQBlobMessage, 146
 - getMostSignificantBits
 - decaf::util::UUID, 2687
 - getName
 - activemq::commands::ActiveMQBlobMessage, 146
 - decaf::security::auth::x500::X500Principal, 2725
 - decaf::security::Principal, 2082
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX500Principal, 1960
 - decaf::util::logging::Logger, 1625
 - getNetworkBrokerId
 - activemq::commands::NetworkBridgeFilter, 1924
 - getNetworkProperties
 - activemq::commands::BrokerInfo, 608, 609
 - getNetworkTTL
 - activemq::commands::NetworkBridgeFilter, 1924
 - getNextSequenceId
 - activemq::util::LongSequenceGenerator, 1683

- getNextSessionId
 - activemq::core::ActiveMQConnectionSupport::getPassword, 209
- getNextTempDestinationId
 - activemq::core::ActiveMQConnectionSupport, 209
- getNotAfter
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1964
- getNotBefore
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1964
- getNumReceivedMessageBeforeFail
 - activemq::transport::mock::MockTransport, 1911
- getNumReceivedMessages
 - activemq::transport::mock::MockTransport, 1911
- getNumSentMessageBeforeFail
 - activemq::transport::mock::MockTransport, 1911
- getNumSentMessages
 - activemq::transport::mock::MockTransport, 1911
- getObjectId
 - activemq::commands::RemoveInfo, 2177
- getOperationType
 - activemq::commands::DestinationInfo, 1195
- getOptions
 - activemq::commands::ActiveMQDestination, 232
- getOrderedTarget
 - activemq::commands::ActiveMQDestination, 232
- getOriginalDestination
 - activemq::commands::Message, 1743
- getOriginalTransactionId
 - activemq::commands::Message, 1743
- getOutputStream
 - decaf::io::Writer, 2723
 - decaf::net::BufferedSocket, 641
 - decaf::net::Socket, 2371
 - decaf::net::TcpSocket, 2525
 - decaf::util::logging::StreamHandler, 2472
- getParameters
 - activemq::util::CompositeData, 903
- getParentId
 - activemq::commands::ConsumerId, 1045
 - activemq::commands::ProducerId, 2105
- activemq::commands::SessionId, 2284
- activemq::commands::ConnectionInfo, 997, 998
- activemq::core::ActiveMQConnectionFactory, 201
- activemq::core::ActiveMQConnectionSupport, 209
- getPath
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2669
 - decaf::net::URI, 2641
- getPeerBrokerInfos
 - activemq::commands::BrokerInfo, 609
- getPhysicalName
 - activemq::commands::ActiveMQDestination, 232
- getPooledThreadListener
 - decaf::util::concurrent::PooledThread, 2031
- getPoolSize
 - decaf::util::concurrent::ThreadPool, 2550
- getPort
 - decaf::internal::net::URIType, 2669
 - decaf::net::URI, 2641
- getPreferedWireFormatInfo
 - activemq::wireformat::openwire::OpenWireFormat, 1972
- getPrefetch
 - activemq::commands::ConsumerControl, 1028
- getPrefetchSize
 - activemq::commands::ConsumerInfo, 1064
- getPreparedResult
 - activemq::state::TransactionState, 2605
- getPriority
 - activemq::cmsutil::CachedProducer, 777
 - activemq::cmsutil::CmsTemplate, 861
 - activemq::commands::ConsumerInfo, 1064
 - activemq::commands::Message, 1743
 - activemq::core::ActiveMQProducer, 325
 - cms::MessageProducer, 1878
- getProducerId
 - activemq::commands::Message, 1743
 - activemq::commands::MessageId, 1843, 1844
 - activemq::commands::ProducerAck, 2086
 - activemq::commands::ProducerInfo, 2123
 - activemq::core::ActiveMQProducer, 326
- getProducerInfo
 - activemq::core::ActiveMQProducer, 326
- getProducerSequenceId
 - activemq::commands::MessageId, 1844
- getProducerState
 - activemq::state::SessionState, 2317

- getProducerStates
 - activemq::state::SessionState, 2317
- getProducerWindowSize
 - activemq::core::ActiveMQConnectionSupport, 210
- getProperties
 - activemq::commands::WireFormatInfo, 2702
 - activemq::core::ActiveMQConnectionSupport, 210
 - activemq::util::ActiveMQProperties, 331, 332
 - activemq::wireformat::stomp::StompFrame, 2456
 - decaf::util::logging::LogManager, 1641
- getProperty
 - activemq::util::ActiveMQProperties, 332
 - activemq::wireformat::stomp::StompFrame, 2457
 - cms::CMSProperties, 852
 - decaf::util::logging::LogManager, 1641
 - decaf::util::Properties, 2140, 2141
- getPropertyNames
 - activemq::commands::ActiveMQMessageTemplate, 300
 - cms::Message, 1764
- getProvider
 - decaf::security_ -
 - provider::SecurityProviderRegistrar, 2264
- getProviderMajorVersion
 - activemq::core::ActiveMQConnectionMetaData, 205
 - cms::ConnectionMetaData, 1015
- getProviderMinorVersion
 - activemq::core::ActiveMQConnectionMetaData, 205
 - cms::ConnectionMetaData, 1015
- getProviderVersion
 - activemq::core::ActiveMQConnectionMetaData, 206
 - cms::ConnectionMetaData, 1016
- getPublicKey
 - decaf::security::cert::Certificate, 786
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1964, 1965
- getQuery
 - decaf::internal::net::URIType, 2670
 - decaf::net::URI, 2641
- getQueue
 - cms::QueueBrowser, 2157
- getQueueName
 - activemq::commands::ActiveMQQueue, 338
 - activemq::commands::ActiveMQTempQueue, 416
 - cms::Queue, 2155
 - cms::TemporaryQueue, 2536
- getRawAuthority
 - decaf::net::URI, 2641
- getRawFragment
 - decaf::net::URI, 2641
- getRawPath
 - decaf::net::URI, 2641
- getRawQuery
 - decaf::net::URI, 2642
- getRawSchemeSpecificPart
 - decaf::net::URI, 2642
- getRawUserInfo
 - decaf::net::URI, 2642
- getReason
 - decaf::net::URISyntaxException, 2666
- getReceiveBufferSize
 - decaf::net::BufferedSocket, 641
 - decaf::net::Socket, 2371
 - decaf::net::TcpSocket, 2525
- getReceiveTimeout
 - activemq::cmsutil::CmsTemplate, 861
- getReconnectDelay
 - activemq::transport::failover::FailoverTransport, 1298
- getRedeliveryCounter
 - activemq::commands::Message, 1743
 - activemq::commands::MessageDispatch, 1801
- getRedeliveryDelay
 - activemq::core::ActiveMQTransactionContext, 481
- getReferences
 - decaf::internal::nio::ByteArrayPerspective, 730
- getRemoteAddress
 - activemq::transport::failover::FailoverTransport, 1298
 - activemq::transport::IOTransport, 1480
 - activemq::transport::mock::MockTransport, 1911
 - activemq::transport::Transport, 2607
 - activemq::transport::TransportFilter, 2616
- getRemoteBlobUrl
 - activemq::commands::ActiveMQBlobMessage, 146
- getReplyTo
 - activemq::commands::Message, 1743
- getResourceLifecycleManager
 - activemq::cmsutil::CmsAccessor, 843

- activemq::cmsutil::SessionPool, 2315
- getResponse
 - activemq::transport::correlator::FutureResponse, 1375, 1376
- getResult
 - activemq::commands::IntegerResponse, 1442
- getReuseAddress
 - decaf::net::BufferedSocket, 642
 - decaf::net::Socket, 2372
 - decaf::net::TcpSocket, 2526
- getRuntime
 - decaf::lang::Runtime, 2255
- getSafeValue
 - decaf::util::StlQueue, 2441
- getScheme
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2670
 - decaf::net::URI, 2642
- getSchemeSpecificPart
 - decaf::internal::net::URIType, 2670
 - decaf::net::URI, 2642
- getSecurityProviderNames
 - decaf::security_ -
 - provider::SecurityProviderMap, 2261
- getSelector
 - activemq::commands::ConsumerInfo, 1064
 - activemq::commands::SubscriptionInfo, 2492
- getSendBufferSize
 - decaf::net::BufferedSocket, 642
 - decaf::net::Socket, 2372
 - decaf::net::TcpSocket, 2526
- getSendTimeout
 - activemq::core::ActiveMQConnectionSupport, 210
 - activemq::core::ActiveMQProducer, 326
- getServiceName
 - activemq::commands::DiscoveryEvent, 1213
- getSession
 - activemq::cmsutil::PooledSession, 2027
- getSessionAcknowledgeMode
 - activemq::cmsutil::CmsAccessor, 843
- getSessionId
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::ProducerId, 2106
 - activemq::commands::SessionInfo, 2300
 - activemq::core::ActiveMQSession, 362
- getSessionInfo
 - activemq::core::ActiveMQSession, 362
- getSessionState
 - activemq::state::ConnectionState, 1018
- getSessionStates
 - activemq::state::ConnectionState, 1018
- getShort
 - activemq::commands::ActiveMQMapMessage, 260
 - activemq::util::PrimitiveList, 2044
 - activemq::util::PrimitiveMap, 2055
 - activemq::util::PrimitiveValueNode, 2077
 - cms::MapMessage, 1704
 - decaf::internal::nio::ByteBuffer, 705, 706
 - decaf::internal::util::ByteArrayAdapter, 684
 - decaf::nio::ByteBuffer, 746
- getShortArray
 - decaf::internal::util::ByteArrayAdapter, 684
- getShortAt
 - decaf::internal::util::ByteArrayAdapter, 684
- getShortCapacity
 - decaf::internal::util::ByteArrayAdapter, 685
- getShortProperty
 - activemq::commands::ActiveMQMessageTemplate, 301
 - activemq::wireformat::openwire::utils::MessagePropertyInterce, 1887
 - cms::Message, 1765
- getSigAlgName
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1965
- getSigAlgOID
 - decaf::security::cert::X509Certificate, 2727
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1965
- getSigAlgParams
 - decaf::security::cert::X509Certificate, 2728
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1965
- getSignature
 - decaf::security::cert::X509Certificate, 2728
 - decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 1965
- getSize
 - activemq::commands::Message, 1743
 - activemq::commands::ProducerAck, 2086
- getSocketHandle
 - decaf::net::TcpSocket, 2526
- getSoLinger

- decaf::net::BufferedSocket, 642
- decaf::net::Socket, 2372
- decaf::net::TcpSocket, 2526
- getSoTimeout
 - decaf::net::BufferedSocket, 643
 - decaf::net::Socket, 2372
 - decaf::net::TcpSocket, 2526
- getSource
 - decaf::internal::net::URIType, 2670
- getSourceFile
 - decaf::util::logging::LogRecord, 1644
- getSourceFunction
 - decaf::util::logging::LogRecord, 1644
- getSourceLine
 - decaf::util::logging::LogRecord, 1645
- getStackTrace
 - cms::CMSException, 849
 - decaf::lang::Exception, 1270
 - decaf::lang::Throwable, 2555
- getStackTraceElements
 - activemq::commands::BrokerError, 586
- getStackTraceString
 - cms::CMSException, 849
 - decaf::lang::Exception, 1270
 - decaf::lang::Throwable, 2555
- getString
 - activemq::commands::ActiveMQMapMessage, 260
 - activemq::util::PrimitiveList, 2044
 - activemq::util::PrimitiveMap, 2055
 - activemq::util::PrimitiveValueNode, 2077
 - cms::MapMessage, 1704
- getStringProperty
 - activemq::commands::ActiveMQMessageTemplate, 301
 - activemq::wireformat::openwire::utils::MessageProperty, 1887
 - cms::Message, 1765
- getSubscriptionName
 - activemq::commands::RemoveSubscriptionInfo, 2193, 2194
 - activemq::commands::SubscriptionInfo, 2492
- getSubjectUniqueID
 - decaf::security::cert::X509Certificate, 2728
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1965
- getSubjectX500Principal
 - decaf::security::cert::X509Certificate, 2728
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1966
- getSubscribedDestination
 - activemq::commands::SubscriptionInfo, 2492
- getSubscriptionName
 - activemq::commands::ConsumerInfo, 1064
- getSubscriptionName
 - activemq::commands::JournalTopicAck, 1508
- getTail
 - decaf::util::logging::Formatter, 1371
 - decaf::util::logging::SimpleFormatter, 2366
- getTargetConsumerId
 - activemq::commands::Message, 1743, 1744
- getTBSCertificate
 - decaf::security::cert::X509Certificate, 2728
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1966
- getTcpNoDelay
 - decaf::net::TcpSocket, 2527
- getTempDesinations
 - activemq::state::ConnectionState, 1018
- getText
 - activemq::commands::ActiveMQTextMessage, 449
 - cms::TextMessage, 2540
- getTime
 - decaf::util::Date, 1179
- getTimeout
 - activemq::commands::DestinationInfo, 1195
 - activemq::commands::MessagePull, 1894
 - activemq::transport::failover::FailoverTransport, 1298
- getTimeStamp
 - activemq::commands::Message, 1744
- getInterLogging
 - decaf::util::logging::LogRecord, 1645
- getTimeToLive
 - activemq::cmsutil::CachedProducer, 777
 - activemq::cmsutil::CmsTemplate, 861
 - activemq::core::ActiveMQProducer, 326
 - cms::MessageProducer, 1878
- getTopicName
 - activemq::commands::ActiveMQTempTopic, 433
 - activemq::commands::ActiveMQTopic, 466
 - cms::TemporaryTopic, 2538
- getTopicName
 - cms::Topic, 2569
- getTransactionId
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::JournalTransaction, 1539
 - activemq::commands::Message, 1744
 - activemq::commands::MessageAck, 1778

- activemq::commands::TransactionInfo, 2589
- activemq::core::ActiveMQTransactionContext, 481
- getTransactionState
 - activemq::state::ConnectionState, 1018
- getTransactionStates
 - activemq::state::ConnectionState, 1018
- getTransport
 - activemq::core::ActiveMQConnectionSupport, 210
 - activemq::transport::failover::BackupTransport, 499
- getTransportListener
 - activemq::transport::failover::FailoverTransport, 1298
 - activemq::transport::IOTransport, 1480
 - activemq::transport::mock::MockTransport, 1911
 - activemq::transport::Transport, 2607
 - activemq::transport::TransportFilter, 2617
- getTransportNames
 - activemq::transport::TransportRegistry, 2625
- getThreadId
 - decaf::util::logging::LogRecord, 1645
- getType
 - activemq::commands::JournalTransaction, 1539
 - activemq::commands::Message, 1744
 - activemq::commands::TransactionInfo, 2589
 - activemq::util::PrimitiveValueNode, 2077
 - decaf::security::cert::Certificate, 787
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1966
- getUnconsumedMessages
 - activemq::core::ActiveMQSessionExecutor, 369
- getURI
 - activemq::transport::failover::URIPool, 2658
- getUri
 - activemq::transport::failover::BackupTransport, 500
- getUsage
 - activemq::util::MemoryUsage, 1732
- getUseParentHandlers
 - decaf::util::logging::Logger, 1625
- getUserID
 - activemq::commands::Message, 1744
- getUserInfo
 - decaf::internal::net::URIType, 2670
- decaf::net::URI, 2642
- getUserName
 - activemq::commands::ConnectionInfo, 998
- getUsername
 - activemq::core::ActiveMQConnectionFactory, 201
 - activemq::core::ActiveMQConnectionSupport, 210
- getValue
 - activemq::commands::BrokerId, 592
 - activemq::commands::ConnectionId, 981
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::LocalTransactionId, 1600
 - activemq::commands::ProducerId, 2106
 - activemq::commands::SessionId, 2284
 - activemq::util::PrimitiveValueNode, 2078
 - decaf::util::Map::Entry, 1262
- getVersion
 - activemq::commands::WireFormatInfo, 2702
 - activemq::wireformat::openwire::OpenWireFormat, 1973
 - activemq::wireformat::stomp::StompWireFormat, 2465
 - activemq::wireformat::WireFormat, 2692
 - decaf::security::cert::X509Certificate, 2728
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1966
- getWasPrepared
 - activemq::commands::JournalTransaction, 1539
- getWindowSize
 - activemq::commands::ProducerInfo, 2123
- getWireFormatNames
 - activemq::wireformat::WireFormatRegistry, 2721
- getX509Name
 - decaf::security_-
 - provider::unix::openssl::OpenSSLX500Principal, 1961
- globalTransactionId
 - activemq::commands::XATransactionId, 2733
- groupID
 - activemq::commands::Message, 1749
- groupSequence
 - activemq::commands::Message, 1749
- handleTransportFailure
 - activemq::transport::failover::FailoverTransport, 1298
- hasArray

- decaf::internal::nio::ByteBuffer, 706
- decaf::internal::nio::CharArrayBuffer, 812
- decaf::internal::nio::DoubleArrayBuffer, 1245
- decaf::internal::nio::FloatArrayBuffer, 1342
- decaf::internal::nio::IntArrayBuffer, 1413
- decaf::internal::nio::LongArrayBuffer, 1669
- decaf::internal::nio::ShortArrayBuffer, 2333
- decaf::nio::ByteBuffer, 747
- decaf::nio::CharBuffer, 824
- decaf::nio::DoubleBuffer, 1254
- decaf::nio::FloatBuffer, 1350
- decaf::nio::IntBuffer, 1421
- decaf::nio::LongBuffer, 1678
- decaf::nio::ShortBuffer, 2342
- hashCode
 - decaf::security::auth::x500::X500Principal, 2725
- hasMoreTokens
 - decaf::util::StringTokenizer, 2487
- hasNegotiator
 - activemq::wireformat::openwire::OpenWireFormat, 1973
 - activemq::wireformat::stomp::StompWireFormat, 2465
 - activemq::wireformat::WireFormat, 2692
- hasNext
 - decaf::util::Iterator, 1487
- hasPrevious
 - decaf::util::ListIterator, 1596
- hasProperty
 - activemq::util::ActiveMQProperties, 332
 - activemq::wireformat::stomp::StompFrame, 2457
 - cms::CMSProperties, 853
 - decaf::util::Properties, 2141
- hasRemaining
 - decaf::nio::Buffer, 628
- hasUnconsumedMessages
 - activemq::core::ActiveMQSessionExecutor, 369
- HEADER_ACK
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_CLIENT_ID
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_CONSUMERPRIORITY
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_CONTENTLENGTH
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_CORRELATIONID
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_DESTINATION
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_DISPATCH_ASYNC
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_EXCLUSIVE
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_EXPIRES
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_ID
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_JMSPRIORITY
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_LOGIN
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_MAXPENDINGMSGLIMIT
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_MESSAGE
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_MESSAGEID
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_NOLOCAL
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_OLDSUBSCRIPTIONNAME
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_PASSWORD
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_PERSISTENT
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_PREFETCHSIZE
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_RECEIPT_REQUIRED
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- HEADER_RECEIPTID
 - activemq::wireformat::stomp::StompCommandConstants, 2452

HEADER_REDELIVERED	decaf::util::concurrent::TimeUnit, 2568
activemq::wireformat::stomp::StompCommandConstants, 2452	decaf::net::HttpRetryException, 1388, 1389
HEADER_REDELIVERYCOUNT	1389
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQBLOBBMESSAGE
HEADER_REPLYTO	activemq::commands::ActiveMQBlobMessage, 148
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQBYTESMESSAGE
HEADER_REQUESTID	activemq::commands::ActiveMQBytesMessage, 175
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQDESTINATION
HEADER_RESPONSEID	activemq::commands::ActiveMQDestination, 237
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQMAPMESSAGE
HEADER_RETROACTIVE	activemq::commands::ActiveMQMapMessage, 264
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQMESSAGE
HEADER_SELECTOR	activemq::commands::ActiveMQMessage, 279
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQOBJECTMESSAGE
HEADER_SESSIONID	activemq::commands::ActiveMQObjectMessage, 310
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQQUEUE
HEADER_SUBSCRIPTION	activemq::commands::ActiveMQQueue, 338
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQSTREAMMESSAGE
HEADER_SUBSCRIPTIONNAME	activemq::commands::ActiveMQStreamMessage, 384
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQTEMPDESTINATION
HEADER_TIMESTAMP	activemq::commands::ActiveMQTempDestination, 490
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQTEMPQUEUE
HEADER_TRANSACTIONID	activemq::commands::ActiveMQTempQueue, 417
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQTEMPTOPIC
HEADER_TRANSFORMATION	activemq::commands::ActiveMQTempTopic, 434
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQTEXTMESSAGE
HEADER_TRANSFORMATION_ERROR	activemq::commands::ActiveMQTextMessage, 450
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_ACTIVEMQTOPIC
HEADER_TYPE	activemq::commands::ActiveMQTopic, 466
activemq::wireformat::stomp::StompCommandConstants, 2452	ID_BROKERID
HexStringParser	activemq::commands::BrokerId, 592
decaf::internal::util::HexStringParser, 1384	ID_BROKERINFO
HexTable	activemq::commands::BrokerInfo, 612
activemq::wireformat::openwire::utils::HexTable, 1386	ID_CONNECTIONCONTROL
highestOneBit	activemq::commands::ConnectionControl, 947
decaf::lang::Integer, 1431	ID_CONNECTIONERROR
decaf::lang::Long, 1655	activemq::commands::ConnectionError, 963
HOURS	ID_CONNECTIONID

- activemq::commands::ConnectionId, 982
- ID_ CONNECTIONINFO
 - activemq::commands::ConnectionInfo, 1000
- ID_ CONSUMERCONTROL
 - activemq::commands::ConsumerControl, 1030
- ID_ CONSUMERID
 - activemq::commands::ConsumerId, 1046
- ID_ CONSUMERINFO
 - activemq::commands::ConsumerInfo, 1067
- ID_ CONTROLCOMMAND
 - activemq::commands::ControlCommand, 1084
- ID_ DATAARRAYRESPONSE
 - activemq::commands::DataArrayResponse, 1101
- ID_ DATARESPONSE
 - activemq::commands::DataResponse, 1132
- ID_ DESTINATIONINFO
 - activemq::commands::DestinationInfo, 1196
- ID_ DISCOVERYEVENT
 - activemq::commands::DiscoveryEvent, 1214
- ID_ EXCEPTIONRESPONSE
 - activemq::commands::ExceptionResponse, 1276
- ID_ FLUSHCOMMAND
 - activemq::commands::FlushCommand, 1357
- ID_ INTEGERRESPONSE
 - activemq::commands::IntegerResponse, 1442
- ID_ JOURNALQUEUEACK
 - activemq::commands::JournalQueueAck, 1491
- ID_ JOURNALTOPICACK
 - activemq::commands::JournalTopicAck, 1509
- ID_ JOURNALTRACE
 - activemq::commands::JournalTrace, 1524
- ID_ JOURNALTRANSACTION
 - activemq::commands::JournalTransaction, 1540
- ID_ KEEPALIVEINFO
 - activemq::commands::KeepAliveInfo, 1555
- ID_ LASTPARTIALCOMMAND
 - activemq::commands::LastPartialCommand, 1575
- ID_ LOCALTRANSACTIONID
 - activemq::commands::LocalTransactionId, 1601
- ID_ MESSAGE
 - activemq::commands::Message, 1749
- ID_ MESSAGEACK
 - activemq::commands::MessageAck, 1780
- ID_ MESSAGEDISPATCH
 - activemq::commands::MessageDispatch, 1802
- ID_ MESSAGEDISPATCHNOTIFICATION
 - activemq::commands::MessageDispatchNotification, 1826
- ID_ MESSAGEID
 - activemq::commands::MessageId, 1845
- ID_ MESSAGEPULL
 - activemq::commands::MessagePull, 1895
- ID_ NETWORKBRIDGEFILTER
 - activemq::commands::NetworkBridgeFilter, 1924
- ID_ PARTIALCOMMAND
 - activemq::commands::PartialCommand, 1996
- ID_ PRODUCERACK
 - activemq::commands::ProducerAck, 2087
- ID_ PRODUCERID
 - activemq::commands::ProducerId, 2106
- ID_ PRODUCERINFO
 - activemq::commands::ProducerInfo, 2124
- ID_ REMOVEINFO
 - activemq::commands::RemoveInfo, 2178
- ID_ REMOVESUBSCRIPTIONINFO
 - activemq::commands::RemoveSubscriptionInfo, 2195
- ID_ REPLAYCOMMAND
 - activemq::commands::ReplayCommand, 2211
- ID_ RESPONSE
 - activemq::commands::Response, 2232
- ID_ SESSIONID
 - activemq::commands::SessionId, 2285
- ID_ SESSIONINFO
 - activemq::commands::SessionInfo, 2301
- ID_ SHUTDOWNINFO
 - activemq::commands::ShutdownInfo, 2349
- ID_ SUBSCRIPTIONINFO
 - activemq::commands::SubscriptionInfo, 2493
- ID_ TRANSACTIONID
 - activemq::commands::TransactionId, 2574
- ID_ TRANSACTIONINFO
 - activemq::commands::TransactionInfo, 2590
- ID_ WIREFORMATINFO
 - activemq::commands::WireFormatInfo, 2706
- ID_ XATRANSACTIONID

- activemq::commands::XATransactionId, 2733
- IllegalArgumentException
 - decaf::lang::exceptions::IllegalArgumentException, 1391, 1392
- IllegalMonitorStateException
 - decaf::lang::exceptions::IllegalMonitorStateException, 1394, 1395
- IllegalStateException
 - cms::IllegalStateException, 1397
 - decaf::lang::exceptions::IllegalStateException, 1398, 1399
- increaseUsage
 - activemq::util::MemoryUsage, 1733
 - activemq::util::Usage, 2680
- incrementAndGet
 - decaf::util::concurrent::atomic::AtomicInteger, 492
- indexOf
 - decaf::util::List, 1591
 - decaf::util::StlList, 2422
- IndexOutOfBoundsException
 - decaf::lang::exceptions::IndexOutOfBoundsException, 1401, 1402
- INDIVIDUAL_ACKNOWLEDGE
 - cms::Session, 2271
- Info
 - decaf::util::logging, 119
- info
 - decaf::util::logging::Logger, 1626
 - decaf::util::logging::SimpleLogger, 2368
- init
 - activemq::cmsutil::CmsAccessor, 844
 - activemq::cmsutil::CmsDestinationAccessor, 846
 - activemq::cmsutil::CmsTemplate, 861
 - activemq::cmsutil::DestinationResolver, 1209
 - activemq::cmsutil::DynamicDestinationResolver, 1260
- initCause
 - decaf::lang::Exception, 1270
 - decaf::lang::Throwable, 2555
- initializeLibrary
 - activemq::library::ActiveMQCPP, 225, 226
- initializeRuntime
 - decaf::lang::Runtime, 2255
- inputStream
 - decaf::io::FilterInputStream, 1319
- IntArrayBuffer
 - decaf::internal::nio::IntArrayBuffer, 1409, 1410
- intBitsToFloat
 - decaf::lang::Float, 1331
- IntBuffer
 - decaf::nio::IntBuffer, 1417
- Integer
 - decaf::lang::Integer, 1428
 - INTEGER_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- IntegerResponse
 - activemq::commands::IntegerResponse, 1441
- IntegerResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::IntegerResponse, 1448
 - activemq::wireformat::openwire::marshal::v2::IntegerResponse, 1444
 - activemq::wireformat::openwire::marshal::v3::IntegerResponse, 1452
- InternalCommandListener
 - activemq::transport::mock::InternalCommandListener, 1455
- InterruptedException
 - decaf::lang::exceptions::InterruptedException, 1457, 1458
- InterruptedIOException
 - decaf::io::InterruptedIOException, 1460, 1461
- intValue
 - activemq::util::PrimitiveValueNode::PrimitiveValue, 2065
 - decaf::lang::Byte, 666
 - decaf::lang::Character, 802
 - decaf::lang::Double, 1234
 - decaf::lang::Float, 1331
 - decaf::lang::Integer, 1431
 - decaf::lang::Long, 1655
 - decaf::lang::Number, 1953
 - decaf::lang::Short, 2323
 - decaf::util::concurrent::atomic::AtomicInteger, 493
- INVALID_SOCKET_HANDLE
 - decaf::net::Socket, 2375
- InvalidClientIdException
 - cms::InvalidClientIdException, 1463
- InvalidDestinationException
 - cms::InvalidDestinationException, 1464
- InvalidKeyException
 - decaf::security::InvalidKeyException, 1465, 1466
- InvalidMarkException
 - decaf::nio::InvalidMarkException, 1468, 1469
- InvalidSelectorException
 - cms::InvalidSelectorException, 1471
- InvalidStateException

- decaf::lang::exceptions::InvalidStateException, 1472, 1473
- IOException
 - decaf::io::IOException, 1475, 1476
- IOTransport
 - activemq::transport::IOTransport, 1479
- isAbsolute
 - decaf::internal::net::URIType, 2670
 - decaf::net::URI, 2643
- isAdvisory
 - activemq::commands::ActiveMQDestination, 232
- isAlwaysSyncSend
 - activemq::core::ActiveMQConnectionSupportsComposite, 211
- isAutoAcknowledge
 - activemq::core::ActiveMQSession, 363
- isBackup
 - activemq::transport::failover::FailoverTransport, 1299
- isBound
 - decaf::net::ServerSocket, 2267
- isBrokerInfo
 - activemq::commands::BaseCommand, 507
 - activemq::commands::BrokerInfo, 609
 - activemq::commands::Command, 878
- isBrokerMasterConnector
 - activemq::commands::ConnectionInfo, 998
- isBrowser
 - activemq::commands::ConsumerInfo, 1064
- isBusy
 - decaf::util::concurrent::PooledThread, 2031
- isCacheEnabled
 - activemq::commands::WireFormatInfo, 2702
 - activemq::wireformat::openwire::OpenWireFormat, 1973
- isCancelled
 - decaf::util::concurrent::Future, 1374
- isClientAcknowledge
 - activemq::core::ActiveMQSession, 363
- isClientMaster
 - activemq::commands::ConnectionInfo, 998
- isClose
 - activemq::commands::ConnectionControl, 945
 - activemq::commands::ConsumerControl, 1029
- isClosed
 - activemq::core::ActiveMQConnection, 194
 - activemq::core::ActiveMQConsumer, 222
 - activemq::core::ActiveMQProducer, 326
 - activemq::core::MessageDispatchChannel, 1805
- activemq::transport::failover::BackupTransport, 500
- activemq::transport::failover::FailoverTransport, 1299
- activemq::transport::IOTransport, 1480
- activemq::transport::mock::MockTransport, 1911
- activemq::transport::tcp::TcpTransport, 2531
- activemq::transport::Transport, 2607
- activemq::transport::TransportFilter, 2617
- decaf::io::FilterInputStream, 1315
- decaf::io::FilterOutputStream, 1322
- activemq::commands::ActiveMQDestination, 233
- isCompressed
 - activemq::commands::Message, 1744
- isConnected
 - activemq::transport::failover::FailoverTransport, 1299
 - activemq::transport::IOTransport, 1480
 - activemq::transport::mock::MockTransport, 1911
 - activemq::transport::tcp::TcpTransport, 2531
 - activemq::transport::Transport, 2607
 - activemq::transport::TransportFilter, 2617
- decaf::net::BufferedSocket, 643
- decaf::net::Socket, 2373
- decaf::net::TcpSocket, 2527
- isConnectionAdvisory
 - activemq::commands::ActiveMQDestination, 233
- isConnectionInfo
 - activemq::commands::BaseCommand, 507
 - activemq::commands::Command, 878
 - activemq::commands::ConnectionInfo, 998
- isConsumerAdvisory
 - activemq::commands::ActiveMQDestination, 233
- isConsumerInfo
 - activemq::commands::BaseCommand, 508
 - activemq::commands::Command, 878
 - activemq::commands::ConsumerInfo, 1064
- isDeletedByBroker
 - activemq::commands::ActiveMQBlobMessage, 147
- isDigit
 - decaf::lang::Character, 803
- isDispatchAsync
 - activemq::commands::ConsumerInfo, 1064
 - activemq::commands::ProducerInfo, 2123
- isDone

- decaf::util::concurrent::Future, 1374
- isDroppable
 - activemq::commands::Message, 1744
- isDuplexConnection
 - activemq::commands::BrokerInfo, 609
- isDupsOkAcknowledge
 - activemq::core::ActiveMQSession, 363
- isEmpty
 - activemq::core::ActiveMQSessionExecutor, 369
 - activemq::core::MessageDispatchChannel, 1805
 - activemq::util::ActiveMQProperties, 332
- cms::CMSProperties, 853
- decaf::util::AbstractCollection, 126
- decaf::util::Collection, 874
- decaf::util::concurrent::ConcurrentStlMap, 923
- decaf::util::Map, 1693
- decaf::util::Properties, 2141
- decaf::util::StlList, 2422
- decaf::util::StlMap, 2433
- decaf::util::StlSet, 2448
- isEnabled
 - activemq::transport::failover::BackupTransport, 503
- isExclusive
 - activemq::commands::ActiveMQDestination, 233
 - activemq::commands::ConsumerInfo, 1065
- isExit
 - activemq::commands::ConnectionControl, 946
- isExpired
 - activemq::commands::Message, 1744
- isExplicitQosEnabled
 - activemq::cmsutil::CmsTemplate, 862
- isFailOnReceiveMessage
 - activemq::transport::mock::MockTransport, 1912
- isFailOnSendMessage
 - activemq::transport::mock::MockTransport, 1912
- isFaultTolerant
 - activemq::commands::ConnectionControl, 946
 - activemq::transport::failover::FailoverTransport, 1299
 - activemq::transport::IOTransport, 1481
 - activemq::transport::mock::MockTransport, 1912
 - activemq::transport::tcp::TcpTransport, 2531
 - activemq::transport::Transport, 2608
 - activemq::transport::TransportFilter, 2617
- isFaultTolerantConfiguration
 - activemq::commands::BrokerInfo, 610
- isFlush
 - activemq::commands::ConsumerControl, 1029
- isFull
 - activemq::util::MemoryUsage, 1733
 - activemq::util::Usage, 2680
- isInfinite
 - decaf::lang::Double, 1234
 - decaf::lang::Float, 1331, 1332
- isInitialized
 - activemq::transport::failover::FailoverTransport, 1299
- isInTransaction
 - activemq::core::ActiveMQTransactionContext, 481
- isISOControl
 - decaf::lang::Character, 803
- isKeepAliveInfo
 - activemq::commands::BaseCommand, 508
 - activemq::commands::Command, 878
 - activemq::commands::KeepAliveInfo, 1555
- isLetterOrDigit
 - decaf::lang::Character, 803
- isLocked
 - decaf::util::concurrent::Lock, 1615
- isLoggable
 - decaf::util::logging::Filter, 1312
 - decaf::util::logging::Handler, 1381
 - decaf::util::logging::Logger, 1626
 - decaf::util::logging::StreamHandler, 2472
- isLowerCase
 - decaf::lang::Character, 803
- isManageable
 - activemq::commands::ConnectionInfo, 998
- isMarshalAware
 - activemq::commands::ActiveMQMapMessage, 260
 - activemq::commands::ActiveMQStreamMessage, 376
 - activemq::commands::BaseDataStructure, 557
 - activemq::commands::Message, 1744
 - activemq::commands::WireFormatInfo, 2702
 - activemq::wireformat::MarshalAware, 1711
- isMasterBroker
 - activemq::commands::BrokerInfo, 610
- isMessage
 - activemq::commands::BaseCommand, 508

- activemq::commands::Command, 878
- activemq::commands::Message, 1745
- isMessageAck
 - activemq::commands::BaseCommand, 508
 - activemq::commands::Command, 878
 - activemq::commands::MessageAck, 1778
- isMessageDispatch
 - activemq::commands::BaseCommand, 508
 - activemq::commands::Command, 879
 - activemq::commands::MessageDispatch, 1801
- isMessageDispatchNotification
 - activemq::commands::BaseCommand, 508
 - activemq::commands::Command, 879
 - activemq::commands::MessageDispatchNotification, 1824
- isMessageIdEnabled
 - activemq::cmsutil::CmsTemplate, 862
- isMessageTimestampEnabled
 - activemq::cmsutil::CmsTemplate, 862
- isNaN
 - decaf::lang::Double, 1235
 - decaf::lang::Float, 1332
- isNetworkConnection
 - activemq::commands::BrokerInfo, 610
- isNetworkSubscription
 - activemq::commands::ConsumerInfo, 1065
- isNoLocal
 - activemq::cmsutil::CmsTemplate, 862
 - activemq::commands::ConsumerInfo, 1065
- isNoRangeAcks
 - activemq::commands::ConsumerInfo, 1065
- isOpaque
 - decaf::internal::net::URIType, 2671
 - decaf::net::URI, 2643
- isOptimizedAcknowledge
 - activemq::commands::ConsumerInfo, 1065
- isOrdered
 - activemq::commands::ActiveMQDestination, 233
- isPending
 - activemq::threads::CompositeTask, 904
 - activemq::transport::failover::BackupTransport, 503
 - activemq::transport::failover::CloseTransportsTask, 839
 - activemq::transport::failover::FailoverTransport, 1300
- isPersistent
 - activemq::commands::Message, 1745
- isPrepared
 - activemq::state::TransactionState, 2605
- isProducerAck
 - activemq::commands::BaseCommand, 508
- activemq::commands::Command, 879
- activemq::commands::ProducerAck, 2086
- isProducerAdvisory
 - activemq::commands::ActiveMQDestination, 233
- isProducerInfo
 - activemq::commands::BaseCommand, 509
 - activemq::commands::Command, 879
 - activemq::commands::ProducerInfo, 2123
- isPubSubDomain
 - activemq::cmsutil::CmsDestinationAccessor, 846
- isQueue
 - activemq::commands::ActiveMQDestination, 234
- isRandomize
 - activemq::transport::failover::FailoverTransport, 1300
 - activemq::transport::failover::URIPool, 2658
- isReadOnly
 - decaf::internal::nio::ByteBuffer, 706
 - decaf::internal::nio::CharArrayBuffer, 812
 - decaf::internal::nio::DoubleArrayBuffer, 1245
 - decaf::internal::nio::FloatArrayBuffer, 1342
 - decaf::internal::nio::IntArrayBuffer, 1413
 - decaf::internal::nio::LongArrayBuffer, 1669
 - decaf::internal::nio::ShortArrayBuffer, 2333
 - decaf::nio::Buffer, 628
 - decaf::nio::ByteBuffer, 747
- isReadOnlyBody
 - activemq::commands::Message, 1745
- isReadOnlyProperties
 - activemq::commands::Message, 1745
- isRecievedByDFBridge
 - activemq::commands::Message, 1745
- isRemoveInfo
 - activemq::commands::BaseCommand, 509
 - activemq::commands::Command, 879
 - activemq::commands::RemoveInfo, 2177
- isRemoveSubscriptionInfo
 - activemq::commands::BaseCommand, 509
 - activemq::commands::Command, 879
 - activemq::commands::RemoveSubscriptionInfo, 2194
- isResponse
 - activemq::commands::BaseCommand, 509
 - activemq::commands::Command, 879
 - activemq::commands::Response, 2231
- isResponseRequired
 - activemq::commands::BaseCommand, 509
 - activemq::commands::Command, 879

- isRestoreConsumers
 - activemq::state::ConnectionStateTracker, 1022
- isRestoreProducers
 - activemq::state::ConnectionStateTracker, 1022
- isRestoreSessions
 - activemq::state::ConnectionStateTracker, 1022
- isRestoreTransaction
 - activemq::state::ConnectionStateTracker, 1022
- isResume
 - activemq::commands::ConnectionControl, 946
- isRetroactive
 - activemq::commands::ConsumerInfo, 1065
- isRunning
 - activemq::core::ActiveMQSessionExecutor, 369
 - activemq::core::MessageDispatchChannel, 1805
- isServerAuthority
 - decaf::internal::net::URIType, 2671
- isShutdownInfo
 - activemq::commands::BaseCommand, 509
 - activemq::commands::Command, 880
 - activemq::commands::ShutdownInfo, 2349
- isSizePrefixDisabled
 - activemq::commands::WireFormatInfo, 2703
 - activemq::wireformat::openwire::OpenWireFormat, 1973
- isSlaveBroker
 - activemq::commands::BrokerInfo, 610
- isStackTraceEnabled
 - activemq::commands::WireFormatInfo, 2703
 - activemq::wireformat::openwire::OpenWireFormat, 1973
- isStart
 - activemq::commands::ConsumerControl, 1029
- isStarted
 - activemq::core::ActiveMQConnection, 195
 - activemq::core::ActiveMQSession, 363
- isStop
 - activemq::commands::ConsumerControl, 1029
- isSuspend
 - activemq::commands::ConnectionControl, 946
- issynchronizationRegistered
 - activemq::core::ActiveMQConsumer, 222
- isTcpNoDelayEnabled
 - activemq::commands::WireFormatInfo, 2703
 - activemq::wireformat::openwire::OpenWireFormat, 1974
- isTemporary
 - activemq::commands::ActiveMQDestination, 234
- isTightEncodingEnabled
 - activemq::commands::WireFormatInfo, 2703
 - activemq::wireformat::openwire::OpenWireFormat, 1974
- isTopic
 - activemq::commands::ActiveMQDestination, 234
- isTrackMessages
 - activemq::state::ConnectionStateTracker, 1022
 - activemq::transport::failover::FailoverTransport, 1300
- isTrackTransactions
 - activemq::state::ConnectionStateTracker, 1022
- isTransacted
 - activemq::cmsutil::PooledSession, 2028
 - activemq::core::ActiveMQSession, 363
 - cms::Session, 2279
- isTransactionInfo
 - activemq::commands::BaseCommand, 509
 - activemq::commands::Command, 880
 - activemq::commands::TransactionInfo, 2589
- isUpperCase
 - decaf::lang::Character, 803
- isUseAsyncSend
 - activemq::core::ActiveMQConnectionSupport, 211
- isUseExponentialBackOff
 - activemq::transport::failover::FailoverTransport, 1300
- isValid
 - activemq::commands::WireFormatInfo, 2703
 - decaf::internal::net::URIType, 2671
- isValidDomainName
 - decaf::internal::net::URIHelper, 2652
- isValidHexChar
 - decaf::internal::net::URIHelper, 2652
- isValidHost
 - decaf::internal::net::URIHelper, 2652
- isValidIP4Word
 - decaf::internal::net::URIHelper, 2652
- isValidIP6Address

decaf::internal::net::URIHelper, 2653	activemq::wireformat::openwire::marshal::v1::JournalTopicAck
isValidIPv4Address	1519
decaf::internal::net::URIHelper, 2653	activemq::wireformat::openwire::marshal::v2::JournalTopicAck
isWaitingForResponse	1511
activemq::state::Tracked, 2570	activemq::wireformat::openwire::marshal::v3::JournalTopicAck
isWhitespace	1515
decaf::lang::Character, 803	JournalTrace
isWildcard	activemq::commands::JournalTrace, 1523
activemq::commands::ActiveMQDestination, 234	activemq::wireformat::openwire::marshal::v1::JournalTraceMa
isWireFormatInfo	1534
activemq::commands::BaseCommand, 510	activemq::wireformat::openwire::marshal::v2::JournalTraceMa
activemq::commands::Command, 880	1526
activemq::commands::WireFormatInfo, 2703	activemq::wireformat::openwire::marshal::v3::JournalTraceMa
	1530
itemExists	JournalTransaction
activemq::commands::ActiveMQMapMessage, 261	activemq::commands::JournalTransaction, 1538
cms::MapMessage, 1704	JournalTransactionMarshaller
iterate	activemq::wireformat::openwire::marshal::v1::JournalTransact
activemq::core::ActiveMQConsumer, 222	1550
activemq::core::ActiveMQSessionExecutor, 369	activemq::wireformat::openwire::marshal::v2::JournalTransact
	1542
activemq::threads::CompositeTaskRunner, 907	activemq::wireformat::openwire::marshal::v3::JournalTransact
	1546
activemq::threads::Task, 2518	
activemq::transport::failover::BackupTransport, 504	KeepAliveInfo
	activemq::commands::KeepAliveInfo, 1554
activemq::transport::failover::CloseTransport, 839	KeepAliveInfoMarshaller
	activemq::wireformat::openwire::marshal::v1::KeepAliveInfoM
activemq::transport::failover::FailoverTransport, 1300	1565
	activemq::wireformat::openwire::marshal::v2::KeepAliveInfoM
	1561
iterator	activemq::wireformat::openwire::marshal::v3::KeepAliveInfoM
decaf::lang::Iterable, 1485	1557
decaf::util::StlList, 2423	
decaf::util::StlQueue, 2441	KeyException
decaf::util::StlSet, 2448	decaf::security::KeyException, 1570, 1571
	keySet
join	decaf::util::concurrent::ConcurrentStlMap, 923
decaf::lang::Thread, 2543	
JournalQueueAck	decaf::util::Map, 1694
activemq::commands::JournalQueueAck, 1490	decaf::util::StlMap, 2433
JournalQueueAckMarshaller	
activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller, 1498	lastIndexOf
activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller, 1494	decaf::util::StlList, 2423
activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller, 1502	decaf::util::StlList, 2423
	activemq::commands::MessageAck, 1780
JournalTopicAck	activemq::commands::ReplayCommand, 2211
activemq::commands::JournalTopicAck, 1506	LastPartialCommand
JournalTopicAckMarshaller	activemq::commands::LastPartialCommand, 1574

- LastPartialCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller, 1581
 - activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller, 1585
 - activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller, 1577
- length
 - decaf::lang::CharSequence, 832
 - decaf::nio::CharBuffer, 824
- Level
 - decaf::util::logging, 118
- limit
 - decaf::nio::Buffer, 628, 629
- LineNumber
 - activemq::commands::BrokerError::StackTraceElement, 2396
- LIST_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- listener
 - activemq::transport::TransportFilter, 2621
- listIterator
 - decaf::util::List, 1592, 1593
 - decaf::util::StlList, 2423, 2424
- listValue
 - activemq::util::PrimitiveValueNode::PrimitiveValue, 2065
- load
 - decaf::util::Properties, 2141, 2143
- LocalTransactionId
 - activemq::commands::LocalTransactionId, 1599
- LocalTransactionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller, 1611
 - activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller, 1603
 - activemq::wireformat::openwire::marshal::v3::LocalTransactionIdMarshaller, 1607
- Lock
 - decaf::util::concurrent::Lock, 1614
- lock
 - activemq::core::MessageDispatchChannel, 1805
 - decaf::internal::io::StandardErrorOutputStream, 2398
 - decaf::internal::io::StandardInputStream, 2402
 - decaf::internal::io::StandardOutputStream, 2408
 - decaf::io::BlockingByteArrayInputStream, 566
 - decaf::io::ByteArrayInputStream, 716
 - decaf::io::ByteArrayOutputStream, 723
 - decaf::io::FilterInputStream, 1315
 - decaf::io::FilterOutputStream, 1322
 - decaf::net::SocketInputStream, 2384
 - decaf::net::SocketOutputStream, 2389
 - decaf::util::AbstractCollection, 127
 - decaf::util::ConcurrentHashMap, 923
 - decaf::util::concurrent::Lock, 1615
 - decaf::util::concurrent::locks::Lock, 1617
 - decaf::util::concurrent::Mutex, 1920
 - decaf::util::concurrent::Synchronizable, 2506
 - decaf::util::StlMap, 2434
 - decaf::util::StlQueue, 2441
- lockInterruptibly
 - decaf::util::concurrent::locks::Lock, 1617
- log
 - decaf::util::logging::Logger, 1626, 1627
 - decaf::util::logging::LogWriter, 1648, 1649
 - decaf::util::logging::SimpleLogger, 2368
- LOGDECAF_DEBUG
 - LoggerDefines.h, 3323
- LOGDECAF_DEBUG_1
 - LoggerDefines.h, 3323
- LOGDECAF_DECLARE
 - LoggerDefines.h, 3323
- LOGDECAF_DECLARE_LOCAL
 - LoggerDefines.h, 3324
- LOGDECAF_ERROR
 - LoggerDefines.h, 3324
- LOGDECAF_FATAL
 - LoggerDefines.h, 3324
- LOGDECAF_INFO
 - LoggerDefines.h, 3324
- LOGDECAF_INITIALIZE
 - LoggerDefines.h, 3324
- LOGDECAF_WARN
 - LoggerDefines.h, 3324
- Logger
 - decaf::util::logging::Logger, 1622
- LoggerDefines.h
 - LOGDECAF_DEBUG, 3323
 - LOGDECAF_DEBUG_1, 3323
 - LOGDECAF_DECLARE, 3323
 - LOGDECAF_DECLARE_LOCAL, 3324
 - LOGDECAF_ERROR, 3324
 - LOGDECAF_FATAL, 3324
 - LOGDECAF_INFO, 3324
 - LOGDECAF_INITIALIZE, 3324
 - LOGDECAF_WARN, 3324
- LoggerHierarchy
 - decaf::util::logging::LoggerHierarchy, 1630
- LoggingInputStream
 - activemq::io::LoggingInputStream, 1631

- LoggingOutputStream
 - activemq::io::LoggingOutputStream, 1633
- LoggingTransport
 - activemq::transport::logging::LoggingTransport, 1635
- LogManager
 - decaf::util::logging::LogManager, 1640
- LogRecord
 - decaf::util::logging::LogRecord, 1644
- LogWriter
 - decaf::util::logging::LogWriter, 1648
- Long
 - decaf::lang::Long, 1652
- LONG_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- LongArrayBuffer
 - decaf::internal::nio::LongArrayBuffer, 1665, 1666
- longBitsToDouble
 - decaf::lang::Double, 1235
- LongBuffer
 - decaf::nio::LongBuffer, 1674
- LongSequenceGenerator
 - activemq::util::LongSequenceGenerator, 1683
- longValue
 - activemq::util::PrimitiveValueNode::PrimitiveValueNode, 2065
 - decaf::lang::Byte, 666
 - decaf::lang::Character, 803
 - decaf::lang::Double, 1235
 - decaf::lang::Float, 1332
 - decaf::lang::Integer, 1431
 - decaf::lang::Long, 1655
 - decaf::lang::Number, 1953
 - decaf::lang::Short, 2323
 - decaf::util::concurrent::atomic::AtomicInteger, 493
- lookup
 - decaf::security_-
 - provider::SecurityProviderMap, 2262
- looseMarshal
 - activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 538
 - activemq::wireformat::openwire::marshal::DataStreamMarshaller, 1152
 - activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller, 154
 - activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller, 181
 - activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMessageMarshaller, 243
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMessageMarshaller, 270
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller, 456
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMessageMarshaller, 472
 - activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller, 520
 - activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller, 598
 - activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller, 618
 - activemq::wireformat::openwire::marshal::v1::ConnectionContainerMarshaller, 953
 - activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller, 969
 - activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller, 988
 - activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller, 1006
 - activemq::wireformat::openwire::marshal::v1::ConsumerControllerMarshaller, 1036
 - activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller, 1053
 - activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller, 1073
 - activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller, 1086
 - activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller, 1107
 - activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller, 1138
 - activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller, 1202
 - activemq::wireformat::openwire::marshal::v1::DiscoveryEventManagerMarshaller, 1220
 - activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller, 1282
 - activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller, 1359
 - activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller, 1448

activemq::wireformat::openwire::marshal::v2::DataActiveResponseMarshaler	2213
1111	
activemq::wireformat::openwire::marshal::v2::DataResponseMarshaler	2240
1142	
activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaler	2295
1206	
activemq::wireformat::openwire::marshal::v2::DiscoveryInfoMarshaler	2307
1224	
activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaler	2351
1286	
activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaler	2503
1367	
activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaler	2584
1444	
activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaler	2593
1494	
activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaler	2712
1511	
activemq::wireformat::openwire::marshal::v2::JournalTransactionInfoMarshaler	2743
1526	
activemq::wireformat::openwire::marshal::v2::JournalTransactionInfoMarshaler	150
1542	
activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaler	177
1561	
activemq::wireformat::openwire::marshal::v2::LastReceivedCommandMarshaler	239
1585	
activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaler	266
1603	
activemq::wireformat::openwire::marshal::v2::MessageAckMarshaler	281
1782	
activemq::wireformat::openwire::marshal::v2::MessageDispatchInfoMarshaler	312
1810	
activemq::wireformat::openwire::marshal::v2::MessageDispatchInfoMarshaler	340
1828	
activemq::wireformat::openwire::marshal::v2::MessageIdMarshaler	386
1855	
activemq::wireformat::openwire::marshal::v2::MessageIdMarshaler	402
1860	
activemq::wireformat::openwire::marshal::v2::MessageIdMarshaler	419
1897	
activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaler	436
1930	
activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaler	452
1998	
activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaler	468
2097	
activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaler	513
2109	
activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaler	594
2126	
activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaler	614
2180	
activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaler	949
2197	

activemq::wireformat::openwire::marshal::v3::ConnectionFromMarshaller, openwire::marshal::v3::NetworkBridgeFromMarshaller, 1926
 965
 activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller, openwire::marshal::v3::PartialCommandMarshaller, 2002
 984
 activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller, openwire::marshal::v3::ProducerAckMarshaller, 2089
 1002
 activemq::wireformat::openwire::marshal::v3::ConsumerFromMarshaller, openwire::marshal::v3::ProducerIdMarshaller, 2113
 1032
 activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller, openwire::marshal::v3::ProducerInfoMarshaller, 2130
 1049
 activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller, openwire::marshal::v3::RemoveInfoMarshaller, 2188
 1069
 activemq::wireformat::openwire::marshal::v3::ContractCommandMarshaller, openwire::marshal::v3::RemoveSubscriptionMarshaller, 2201
 1090
 activemq::wireformat::openwire::marshal::v3::DataActiveResponseFromMarshaller, openwire::marshal::v3::ReplayCommandMarshaller, 2217
 1103
 activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller, openwire::marshal::v3::ResponseMarshaller, 2245
 1134
 activemq::wireformat::openwire::marshal::v3::DestinationInfoFromMarshaller, openwire::marshal::v3::SessionIdMarshaller, 2291
 1198
 activemq::wireformat::openwire::marshal::v3::DisconnectFromMarshaller, openwire::marshal::v3::SessionInfoMarshaller, 2311
 1216
 activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller, openwire::marshal::v3::ShutdownInfoMarshaller, 2359
 1278
 activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller, openwire::marshal::v3::SubscriptionInfoMarshaller, 2499
 1363
 activemq::wireformat::openwire::marshal::v3::IntegerResponseFromMarshaller, openwire::marshal::v3::TransactionIdMarshaller, 2580
 1452
 activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller, openwire::marshal::v3::TransactionInfoMarshaller, 2597
 1502
 activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller, openwire::marshal::v3::WireFormatInfoMarshaller, 2708
 1515
 activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller, openwire::marshal::v3::XATransactionInfoMarshaller, 2739
 1530
 activemq::wireformat::openwire::marshal::v3::JmsMessageBrokerMarshaller, 1546
 1546
 activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller, 1539
 1557
 looseMarshalCachedObject
 activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller, openwire::marshal::v3::BaseDataStreamMarshaller, 539
 1577
 activemq::wireformat::openwire::marshal::v3::LooseMarshallingMarshaller, 1607
 1607
 activemq::wireformat::openwire::marshal::v3::LooseMarshallingMarshaller, 1607
 1607
 activemq::wireformat::openwire::marshal::v3::MessageMarshaller, 1786
 1786
 looseMarshalNestedObject
 activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller, openwire::marshal::v3::BaseDataStreamMarshaller, 540
 1814
 540
 activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller, OpenWireFormat, 1974
 1836
 1974
 activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller, 1851
 1851
 activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller, 1865
 1865
 looseMarshalString
 activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller, openwire::marshal::v3::BaseDataStreamMarshaller, 540
 1901
 540

looseUnmarshal	1108
activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller	1139
activemq::wireformat::openwire::marshal::DataStreamMarshaller	1156
activemq::wireformat::openwire::marshal::v1::ActiveMQBlobWireFormatMarshaller	1202
activemq::wireformat::openwire::marshal::v1::ActiveMQBinaryWireFormatMarshaller	1220
activemq::wireformat::openwire::marshal::v1::ActiveMQByteWireFormatMarshaller	1283
activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller	1359
activemq::wireformat::openwire::marshal::v1::ActiveMQMapWireFormatMarshaller	1449
activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller	1498
activemq::wireformat::openwire::marshal::v1::ActiveMQObjectWireFormatMarshaller	1519
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueWireFormatMarshaller	1534
activemq::wireformat::openwire::marshal::v1::ActiveMQSequenceWireFormatMarshaller	1550
activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller	1565
activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller	1582
activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller	1611
activemq::wireformat::openwire::marshal::v1::ActiveMQTextWireFormatMarshaller	1790
activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller	1818
activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller	1832
activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller	1847
activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller	1870
activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller	1905
activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller	1934
activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller	2007
activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller	2093
activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller	2117
activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller	2134
activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller	2184
activemq::wireformat::openwire::marshal::v1::ContentCommandMarshaller	2205
activemq::wireformat::openwire::marshal::v1::DataActiveResponseMarshaller	

2221	973
activemq::wireformat::openwire::marshal::v1::ResponseMarshaller	activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller
2251	992
activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller
2287	1010
activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller	activemq::wireformat::openwire::marshal::v2::ConsumerController
2303	1040
activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller	activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller
2355	1057
activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller	activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller
2495	1077
activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller	activemq::wireformat::openwire::marshal::v2::ControlCommandMarshaller
2576	1094
activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller	activemq::wireformat::openwire::marshal::v2::DataArrayResponseMarshaller
2601	1112
activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller	activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller
2716	1143
activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller	activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller
2735	1206
activemq::wireformat::openwire::marshal::v2::ActiveMQBlockWireFormatMarshaller	activemq::wireformat::openwire::marshal::v2::DiscoveryEventManager
158	1224
activemq::wireformat::openwire::marshal::v2::ActiveMQByteWireFormatMarshaller	activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller
185	1287
activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller	activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller
247	1367
activemq::wireformat::openwire::marshal::v2::ActiveMQMapWireFormatMarshaller	activemq::wireformat::openwire::marshal::v2::IntegerResponseMarshaller
274	1445
activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller	activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller
289	1494
activemq::wireformat::openwire::marshal::v2::ActiveMQObjectWireFormatMarshaller	activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller
320	1511
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueWireFormatMarshaller	activemq::wireformat::openwire::marshal::v2::JournalTraceMarshaller
348	1526
activemq::wireformat::openwire::marshal::v2::ActiveMQStreamWireFormatMarshaller	activemq::wireformat::openwire::marshal::v2::JournalTransactionMarshaller
394	1542
activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller	activemq::wireformat::openwire::marshal::v2::KeepAliveInfoMarshaller
410	1561
activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller	activemq::wireformat::openwire::marshal::v2::LastPartialCommandMarshaller
427	1586
activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller	activemq::wireformat::openwire::marshal::v2::LocalTransactionMarshaller
444	1603
activemq::wireformat::openwire::marshal::v2::ActiveMQTextWireFormatMarshaller	activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller
460	1782
activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller	activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller
476	1810
activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller	activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller
528	1828
activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller	activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller
602	1855
activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller	activemq::wireformat::openwire::marshal::v2::MessageMarshaller
622	1860
activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller	activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller
957	1897
activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller	activemq::wireformat::openwire::marshal::v2::NetworkBridgeMarshaller

1930	436
activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller	openwire::marshal::v3::ActiveMQTextM
1999	452
activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller	openwire::marshal::v3::ActiveMQTopicI
2097	468
activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller	openwire::marshal::v3::BaseCommandM
2109	514
activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller	openwire::marshal::v3::BrokerIdMarsha
2126	594
activemq::wireformat::openwire::marshal::v2::RemoteSubscriptionInfoMarshaller	openwire::marshal::v3::BrokerInfoMarsh
2180	614
activemq::wireformat::openwire::marshal::v2::RemoteSubscriptionInfoMarshaller	openwire::marshal::v3::ConnectionCont
2197	949
activemq::wireformat::openwire::marshal::v2::ReplaceCommandMarshaller	openwire::marshal::v3::ConnectionError
2213	965
activemq::wireformat::openwire::marshal::v2::ResponseMarshaller	openwire::marshal::v3::ConnectionIdMa
2241	984
activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller	openwire::marshal::v3::ConnectionInfoM
2295	1002
activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller	openwire::marshal::v3::ConsumerContro
2307	1032
activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller	openwire::marshal::v3::ConsumerIdMar
2351	1049
activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller	openwire::marshal::v3::ConsumerInfoMa
2503	1069
activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller	openwire::marshal::v3::ControlComm
2584	1090
activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller	openwire::marshal::v3::DataArrayRespo
2593	1104
activemq::wireformat::openwire::marshal::v2::WireFormatMarshaller	openwire::marshal::v3::DataResponseM
2712	1135
activemq::wireformat::openwire::marshal::v2::XATransactionMarshaller	openwire::marshal::v3::DestinationInfoM
2743	1198
activemq::wireformat::openwire::marshal::v3::ActiveMQBinaryMessageMarshaller	openwire::marshal::v3::DiscoveryEventM
150	1216
activemq::wireformat::openwire::marshal::v3::ActiveMQBinaryMessageMarshaller	openwire::marshal::v3::ExceptionRespo
177	1279
activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller	openwire::marshal::v3::FlushCommandI
239	1363
activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller	openwire::marshal::v3::IntegerResponse
266	1453
activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller	openwire::marshal::v3::JournalQueueAc
281	1502
activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller	openwire::marshal::v3::JournalTopicAck
312	1515
activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller	openwire::marshal::v3::JournalTraceMa
340	1530
activemq::wireformat::openwire::marshal::v3::ActiveMQSequenceMessageMarshaller	openwire::marshal::v3::JournalTransact
386	1546
activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller	openwire::marshal::v3::KeepAliveInfoM
402	1557
activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller	openwire::marshal::v3::LastPartialCom
419	1578
activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller	openwire::marshal::v3::LocalTransaction

- decaf::io::BlockingByteArrayInputStream, 566
- decaf::io::BufferedInputStream, 633
- decaf::io::ByteArrayInputStream, 717
- decaf::io::FilterInputStream, 1316
- decaf::io::InputStream, 1405
- decaf::net::SocketInputStream, 2384
- marshal
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2060
 - activemq::wireformat::openwire::OpenWireFormat, 1975
 - activemq::wireformat::openwire::utils::BooleanStream, 579
 - activemq::wireformat::stomp::StompWireFormat, 2465
 - activemq::wireformat::WireFormat, 2692
- marshalledProperties
 - activemq::commands::Message, 1749
- marshalledSize
 - activemq::wireformat::openwire::utils::BooleanStream, 579
- marshalPrimitive
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2061
- marshalPrimitiveList
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2061
- marshalPrimitiveMap
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2061
- masterBroker
 - activemq::commands::BrokerInfo, 612
- Math
 - decaf::lang::Math, 1718
- max
 - decaf::lang::Math, 1720, 1721
- MAX_RADIX
 - decaf::lang::Character, 805
- MAX_VALUE
 - decaf::lang::Byte, 670
 - decaf::lang::Character, 805
 - decaf::lang::Double, 1239
 - decaf::lang::Float, 1336
 - decaf::lang::Integer, 1439
 - decaf::lang::Long, 1663
 - decaf::lang::Short, 2327
- maximumPendingMessageLimit
 - activemq::commands::ConsumerInfo, 1067
- MemoryUsage
 - activemq::util::MemoryUsage, 1732
- MESSAGE
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- Message
 - activemq::commands::Message, 1739
- message
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2171
 - activemq::commands::JournalTrace, 1524
 - activemq::commands::MessageDispatch, 1802
 - decaf::lang::Exception, 1272
 - MessageAck
 - activemq::commands::MessageAck, 1776
 - messageAck
 - activemq::commands::JournalQueueAck, 1491
 - MessageAckMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller, 1790
 - activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller, 1782
 - activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller, 1786
 - messageCount
 - activemq::commands::MessageAck, 1780
 - MessageDispatch
 - activemq::commands::MessageDispatch, 1799
 - MessageDispatchChannel
 - activemq::core::MessageDispatchChannel, 1804
 - MessageDispatchMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller, 1818
 - activemq::wireformat::openwire::marshal::v2::MessageDispatchMarshaller, 1810
 - activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller, 1814
 - MessageDispatchNotification
 - activemq::commands::MessageDispatchNotification, 1822
 - MessageDispatchNotificationMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageDispatchNotificationMarshaller, 1832
 - activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller, 1828
 - activemq::wireformat::openwire::marshal::v3::MessageDispatchNotificationMarshaller, 1836
 - MessageEOFException
 - cms::MessageEOFException, 1839
 - MessageFormatException
 - cms::MessageFormatException, 1840
 - MessageId
 - activemq::commands::MessageId, 1842
 - messageId

- activemq::commands::JournalTopicAck, 1509
- activemq::commands::Message, 1749
- activemq::commands::MessageDispatchNotification, 1826
- activemq::commands::MessagePull, 1895
- MessageIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller, 1847
 - activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller, 1855
 - activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller, 1851
- MessageMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessageMarshaller, 1870
 - activemq::wireformat::openwire::marshal::v2::MessageMarshaller, 1860
 - activemq::wireformat::openwire::marshal::v3::MessageMarshaller, 1865
- MessageNotReadableException
 - cms::MessageNotReadableException, 1874
- MessageNotWriteableException
 - cms::MessageNotWriteableException, 1875
- MessagePropertyInterceptor
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1884
- MessagePull
 - activemq::commands::MessagePull, 1892
- MessagePullMarshaller
 - activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller, 1905
 - activemq::wireformat::openwire::marshal::v2::MessagePullMarshaller, 1897
 - activemq::wireformat::openwire::marshal::v3::MessagePullMarshaller, 1901
- messageSequenceId
 - activemq::commands::JournalTopicAck, 1509
- MethodName
 - activemq::commands::BrokerError::StackTraceElement, 2396
- MICROSECONDS
 - decaf::util::concurrent::TimeUnit, 2568
- MILLISECONDS
 - decaf::util::concurrent::TimeUnit, 2568
- min
 - decaf::lang::Math, 1722, 1723
- MIN_RADIX
 - decaf::lang::Character, 805
- MIN_VALUE
 - decaf::lang::Byte, 670
 - decaf::lang::Character, 806
 - decaf::lang::Double, 1239
- decaf::lang::Float, 1336
- decaf::lang::Integer, 1439
- decaf::lang::Long, 1663
- decaf::lang::Short, 2327
- MINUTES
 - decaf::util::concurrent::TimeUnit, 2568
- MockTransport
 - activemq::transport::mock::MockTransport, 1910
- Mutex
 - decaf::util::concurrent::Mutex, 1919
- FilterInputStream, 1319
- FilterOutputStream, 1325
- AbstractCollection, 131
- MessageIDFilterBytes
 - decaf::util::UUID, 2687
- NaN
 - decaf::lang::Double, 1239
 - decaf::lang::Float, 1336
- NANOSECONDS
 - decaf::util::concurrent::TimeUnit, 2568
- nanoTime
 - decaf::lang::System, 2516
- PropertyInterceptor
 - activemq::transport::failover::FailoverTransport, 1300
- activemq::transport::IOTransport, 1481
- activemq::transport::mock::MockTransport, 1911
- FailoverTransport
 - activemq::transport::TransportFilter, 2618
- NEGATIVE_INFINITY
 - decaf::lang::Double, 1239
 - decaf::lang::Float, 1336
- NetworkBridgeFilter
 - activemq::commands::NetworkBridgeFilter, 1923
- NetworkBridgeFilterMarshaller
 - activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller, 1934
 - activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller, 1930
 - activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller, 1926
- networkBrokerId
 - activemq::commands::NetworkBridgeFilter, 1924
- networkConnection
 - activemq::commands::BrokerInfo, 612
- networkProperties
 - activemq::commands::BrokerInfo, 612
- networkSubscription

- activemq::commands::ConsumerInfo, 1067
- networkTTL
 - activemq::commands::NetworkBridgeFilter, 1924
- newCondition
 - decaf::util::concurrent::locks::Lock, 1618
- newThread
 - decaf::util::concurrent::ThreadFactory, 2545
- next
 - activemq::transport::TransportFilter, 2621
 - decaf::util::Iterator, 1487
 - decaf::util::Random, 2159
- nextBoolean
 - decaf::util::Random, 2160
- nextBytes
 - decaf::util::Random, 2160
- nextDouble
 - decaf::util::Random, 2160
- nextFloat
 - decaf::util::Random, 2160
- nextGaussian
 - decaf::util::Random, 2160
- nextInt
 - decaf::util::ListIterator, 1596
- nextInt
 - decaf::util::Random, 2161
- nextLong
 - decaf::util::Random, 2161
- nextToken
 - decaf::util::StringTokenizer, 2487
- node
 - decaf::util::UUID, 2687
- noLocal
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2171
 - activemq::commands::ConsumerInfo, 1067
- NON_PERSISTENT
 - cms::DeliveryMode, 1186
- noRangeAcks
 - activemq::commands::ConsumerInfo, 1067
- normalize
 - decaf::net::URI, 2643
- NoRouteToHostException
 - decaf::net::NoRouteToHostException, 1937, 1938
- NoSuchAlgorithmException
 - decaf::security::NoSuchAlgorithmException, 1940, 1941
- NoSuchElementException
 - decaf::lang::exceptions::NoSuchElementException, 1943, 1944
- NoSuchProviderException
 - decaf::security::NoSuchProviderException, 1946, 1947
- notify
 - activemq::core::MessageDispatchChannel, 1806
 - decaf::internal::io::StandardErrorOutputStream, 2398
 - decaf::internal::io::StandardInputStream, 2403
 - decaf::internal::io::StandardOutputStream, 2408
 - decaf::io::BlockingByteArrayInputStream, 567
 - decaf::io::ByteArrayInputStream, 717
 - decaf::io::ByteArrayOutputStream, 723
 - decaf::io::FilterInputStream, 1316
 - decaf::io::FilterOutputStream, 1322
 - decaf::net::SocketInputStream, 2384
 - decaf::net::SocketOutputStream, 2389
 - decaf::util::AbstractCollection, 127
 - decaf::util::concurrent::ConcurrentStlMap, 924
 - decaf::util::concurrent::Mutex, 1920
 - decaf::util::concurrent::Synchronizable, 2507
 - decaf::util::StlMap, 2434
 - decaf::util::StlQueue, 2441
- notifyAll
 - activemq::core::MessageDispatchChannel, 1806
 - decaf::internal::io::StandardErrorOutputStream, 2399
 - decaf::internal::io::StandardInputStream, 2403
 - decaf::internal::io::StandardOutputStream, 2408
 - decaf::io::BlockingByteArrayInputStream, 567
 - decaf::io::ByteArrayInputStream, 717
 - decaf::io::ByteArrayOutputStream, 723
 - decaf::io::FilterInputStream, 1316
 - decaf::io::FilterOutputStream, 1323
 - decaf::net::SocketInputStream, 2384
 - decaf::net::SocketOutputStream, 2390
 - decaf::util::AbstractCollection, 127
 - decaf::util::concurrent::ConcurrentStlMap, 924
 - decaf::util::concurrent::Mutex, 1920
 - decaf::util::concurrent::Synchronizable, 2508
 - decaf::util::StlMap, 2434
 - decaf::util::StlQueue, 2442
- Null
 - decaf::util::logging, 119

- NULL_TYPE
 - activemq::util::PrimitiveValueNode, 2071
 - activemq::wireformat::openwire::OpenWireFormatNegotiator, 1979
- NullPointerException
 - decaf::lang::exceptions::NullPointerException, 1949, 1950
- NUM_OPTIONS
 - activemq::core::ActiveMQConstants, 215
- NUM_PARAMS
 - activemq::core::ActiveMQConstants, 216
- NumberFormatException
 - decaf::lang::exceptions::NumberFormatException, 1955, 1956
- numberOfLeadingZeros
 - decaf::lang::Integer, 1432
 - decaf::lang::Long, 1656
- numberOfTrailingZeros
 - decaf::lang::Integer, 1432
 - decaf::lang::Long, 1656
- objectId
 - activemq::commands::RemoveInfo, 2178
- Off
 - decaf::util::logging, 119
- offer
 - decaf::util::Queue, 2153
- offset
 - decaf::internal::nio::CharArrayBuffer, 814
- onCommand
 - activemq::core::ActiveMQConnection, 195
 - activemq::transport::correlator::ResponseCorrelator, 2236
 - activemq::transport::DefaultTransportListener, 1183
 - activemq::transport::failover::FailoverTransportListener, 1310
 - activemq::transport::logging::LoggingTransport, 1636
 - activemq::transport::mock::InternalCommandListener, 1455
 - activemq::transport::TransportFilter, 2618
 - activemq::transport::TransportListener, 2622
 - activemq::wireformat::openwire::OpenWireFormatNegotiator, 1983
- oneway
 - activemq::core::ActiveMQConnection, 195
 - activemq::core::ActiveMQSession, 363
 - activemq::transport::correlator::ResponseCorrelator, 2236
 - activemq::transport::failover::FailoverTransport, 1301
 - activemq::transport::IOTransport, 1481
- activemq::transport::logging::LoggingTransport, 1636
- activemq::transport::mock::MockTransport, 1912
- activemq::transport::Transport, 2608
- activemq::transport::TransportFilter, 2618
- activemq::wireformat::openwire::OpenWireFormatNegotiator, 1983
- onException
 - activemq::core::ActiveMQConnection, 195
 - activemq::transport::DefaultTransportListener, 1183
 - activemq::transport::failover::BackupTransport, 500
 - activemq::transport::failover::FailoverTransportListener, 1310
 - activemq::transport::TransportFilter, 2619
 - activemq::transport::TransportListener, 2623
 - cms::ExceptionListener, 1273
- onMessage
 - cms::MessageListener, 1858
- onProducerAck
 - activemq::core::ActiveMQProducer, 327
- onPropertyChanged
 - decaf::util::logging::PropertiesChangeListener, 2147
- onResponse
 - activemq::state::Tracked, 2570
- onTaskComplete
 - decaf::util::concurrent::TaskListener, 2519
- onTaskCompleted
 - decaf::util::concurrent::PooledThreadListener, 2033
 - decaf::util::concurrent::ThreadPool, 2550
- onTaskException
 - decaf::util::concurrent::PooledThreadListener, 2034
 - decaf::util::concurrent::TaskListener, 2519
 - decaf::util::concurrent::ThreadPool, 2550
- onTaskStarted
 - decaf::util::concurrent::PooledThreadListener, 2034
 - decaf::util::concurrent::ThreadPool, 2551
- onTransportException
 - activemq::transport::correlator::ResponseCorrelator, 2237
 - activemq::wireformat::openwire::OpenWireFormatNegotiator, 1984
- OpenSSLX500Principal
 - decaf::security_-provider::unix::openssl::OpenSSLX500Principal, 1959
- OpenWireFormat

- activemq::wireformat::openwire::OpenWireFormatstd::less< decaf::lang::Pointer< T > >, 1971
- 1588
- OpenWireFormatFactory
 - activemq::wireformat::openwire::OpenWireFormatFactory, 2013
 - 1980
- OpenWireFormatNegotiator
 - activemq::wireformat::openwire::OpenWireFormatNegotiator, 1982
- OpenWireResponseBuilder
 - activemq::wireformat::openwire::OpenWireResponseBuilder, 1986
- OpenwireStringSupport
 - activemq::wireformat::openwire::utils::OpenwireStringSupport, 1988
- operationType
 - activemq::commands::DestinationInfo, 1196
- operator<
 - activemq::commands::BrokerId, 592
 - activemq::commands::ConnectionId, 981
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::LocalTransactionId, 1600
 - activemq::commands::MessageId, 1844
 - activemq::commands::ProducerId, 2106
 - activemq::commands::SessionId, 2284
 - activemq::commands::TransactionId, 2573
 - activemq::commands::XATransactionId, 2732
 - decaf::lang::Boolean, 573
 - decaf::lang::Byte, 666
 - decaf::lang::Character, 804
 - decaf::lang::Comparable, 898
 - decaf::lang::Double, 1235, 1236
 - decaf::lang::Float, 1332, 1333
 - decaf::lang::Integer, 1433
 - decaf::lang::Long, 1657
 - decaf::lang::Short, 2323
 - decaf::net::URI, 2643
 - decaf::nio::ByteBuffer, 747
 - decaf::nio::CharBuffer, 824
 - decaf::nio::DoubleBuffer, 1254
 - decaf::nio::FloatBuffer, 1350
 - decaf::nio::IntBuffer, 1421
 - decaf::nio::LongBuffer, 1678
 - decaf::nio::ShortBuffer, 2342
 - decaf::util::concurrent::TimeUnit, 2563
 - decaf::util::UUID, 2688
- operator*
 - decaf::lang::Pointer, 2013
- operator()
 - decaf::lang::PointerComparator, 2016
 - decaf::util::Comparator, 901
- operator->
 - decaf::lang::Pointer, 2013
- operator=
 - activemq::commands::BrokerId, 592
 - activemq::commands::BrokerInfo, 610
 - activemq::commands::ConnectionControl, 946
 - activemq::commands::ConnectionError, 962
 - activemq::commands::ConnectionId, 981
 - activemq::commands::ConnectionInfo, 999
 - activemq::commands::ConsumerControl, 1029
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::ControlCommand, 1083
 - activemq::commands::DataArrayResponse, 1101
 - activemq::commands::DataResponse, 1132
 - activemq::commands::DestinationInfo, 1195
 - activemq::commands::DiscoveryEvent, 1213
 - activemq::commands::ExceptionResponse, 1276
 - activemq::commands::FlushCommand, 1357
 - activemq::commands::IntegerResponse, 1442
 - activemq::commands::JournalQueueAck, 1491
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::JournalTrace, 1524
 - activemq::commands::JournalTransaction, 1539
 - activemq::commands::KeepAliveInfo, 1555
 - activemq::commands::LastPartialCommand, 1575
 - activemq::commands::LocalTransactionId, 1600
 - activemq::commands::Message, 1745
 - activemq::commands::MessageAck, 1778
 - activemq::commands::MessageDispatch, 1801
 - activemq::commands::MessageDispatchNotification, 1824
 - activemq::commands::MessageId, 1844
 - activemq::commands::MessagePull, 1894
 - activemq::commands::NetworkBridgeFilter, 1924

- activemq::commands::PartialCommand, 1995
- activemq::commands::ProducerAck, 2086
- activemq::commands::ProducerId, 2106
- activemq::commands::ProducerInfo, 2123
- activemq::commands::RemoveInfo, 2177
- activemq::commands::RemoveSubscriptionInfo, 2194
- activemq::commands::ReplayCommand, 2210
- activemq::commands::Response, 2231
- activemq::commands::SessionId, 2285
- activemq::commands::SessionInfo, 2300
- activemq::commands::ShutdownInfo, 2349
- activemq::commands::SubscriptionInfo, 2492
- activemq::commands::TransactionId, 2573
- activemq::commands::TransactionInfo, 2589
- activemq::commands::XATransactionId, 2732
- activemq::library::ActiveMQCPP, 226
- activemq::util::PrimitiveValueNode, 2078
- decaf::lang::Exception, 1270
- decaf::lang::Pointer, 2014
- decaf::util::AbstractCollection, 127
- decaf::util::Date, 1179
- decaf::util::logging::LogManager, 1642
- decaf::util::Properties, 2143
- operator==
 - activemq::commands::BrokerId, 592
 - activemq::commands::ConnectionId, 981
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::LocalTransactionId, 1600
 - activemq::commands::MessageId, 1844
 - activemq::commands::ProducerId, 2106
 - activemq::commands::SessionId, 2285
 - activemq::commands::TransactionId, 2573
 - activemq::commands::XATransactionId, 2732
 - activemq::util::PrimitiveValueNode, 2078
 - decaf::lang, 101
 - decaf::lang::Boolean, 574
 - decaf::lang::Byte, 667
 - decaf::lang::Character, 804
 - decaf::lang::Comparable, 898
 - decaf::lang::Double, 1236
 - decaf::lang::Float, 1333
 - decaf::lang::Integer, 1433
 - decaf::lang::Long, 1657
 - decaf::lang::Pointer, 2014, 2015
 - decaf::lang::Short, 2324
 - decaf::net::URI, 2644
 - decaf::nio::ByteBuffer, 747
 - decaf::nio::CharBuffer, 824
 - decaf::nio::DoubleBuffer, 1255
 - decaf::nio::FloatBuffer, 1350
 - decaf::nio::IntBuffer, 1421
 - decaf::nio::LongBuffer, 1679
 - decaf::nio::ShortBuffer, 2343
 - decaf::util::concurrent::TimeUnit, 2563
 - decaf::util::UUID, 2688
- operator[]
 - activemq::wireformat::openwire::utils::HexTable, 1386
 - decaf::internal::util::ByteArrayAdapter, 685
- optimizedAcknowledge
 - activemq::commands::ConsumerInfo, 1067
- options
 - activemq::commands::ActiveMQDestination, 237
- ordered
 - activemq::commands::ActiveMQDestination, 237
- orderedTarget
 - activemq::commands::ActiveMQDestination, 237
- originalDestination
 - activemq::commands::Message, 1749
- originalTransactionId
 - activemq::commands::Message, 1749
- outputStream
 - decaf::io::FilterOutputStream, 1325
- own
 - decaf::io::FilterInputStream, 1319
 - decaf::io::FilterOutputStream, 1325
- PARAM_CLIENTID
 - activemq::core::ActiveMQConstants, 216
- PARAM_PASSWORD
 - activemq::core::ActiveMQConstants, 216
- PARAM_USERNAME
 - activemq::core::ActiveMQConstants, 216
- parent
 - activemq::cmsutil::CmsTemplate::ProducerExecutor, 2102
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2171
- parse
 - decaf::internal::util::HexStringParser, 1384
- parseAuthority
 - decaf::internal::net::URIHelper, 2653
- parseBoolean
 - decaf::lang::Boolean, 574
- parseByte
 - decaf::lang::Byte, 667

- parseComposite
 - activemq::util::URISupport, 2660
- parseDouble
 - decaf::internal::util::HexStringParser, 1384
 - decaf::lang::Double, 1236
- parseFloat
 - decaf::internal::util::HexStringParser, 1385
 - decaf::lang::Float, 1333
- parseInt
 - decaf::lang::Integer, 1434
- parseLong
 - decaf::lang::Long, 1658
- parseQuery
 - activemq::util::URISupport, 2661
- parseServerAuthority
 - decaf::net::URI, 2644
- parseShort
 - decaf::lang::Short, 2324
- parseURI
 - decaf::internal::net::URIHelper, 2654
- parseURL
 - activemq::util::URISupport, 2661
- PartialCommand
 - activemq::commands::PartialCommand, 1994
- PartialCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller, 2006
 - activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller, 1998
 - activemq::wireformat::openwire::marshal::v3::PartialCommandMarshaller, 2002
- password
 - activemq::commands::ConnectionInfo, 1000
- peek
 - activemq::core::MessageDispatchChannel, 1806
 - decaf::util::Queue, 2153
- peerBrokerInfos
 - activemq::commands::BrokerInfo, 612
- PERSISTENT
 - cms::DeliveryMode, 1186
- persistent
 - activemq::commands::Message, 1749
- physicalName
 - activemq::commands::ActiveMQDestination, 237
- PI
 - decaf::lang::Math, 1730
- Pointer
 - decaf::lang::Pointer, 2011, 2012
- PointerType
 - decaf::lang::Pointer, 2011
- poll
 - decaf::util::Queue, 2154
- PooledSession
 - activemq::cmsutil::PooledSession, 2019
- PooledThread
 - decaf::util::concurrent::PooledThread, 2030
- pop
 - decaf::util::StlQueue, 2442
- PortUnreachableException
 - decaf::net::PortUnreachableException, 2035, 2036
- position
 - decaf::nio::Buffer, 629
- POSITIVE_INFINITY
 - decaf::lang::Double, 1239
 - decaf::lang::Float, 1336
- pow
 - decaf::lang::Math, 1724
- prefetch
 - activemq::commands::ConsumerControl, 1030
- prefetchSize
 - activemq::commands::ConsumerInfo, 1067
- previous
 - decaf::util::ListIterator, 1596
- previousIndex
 - decaf::util::ListIterator, 1597
- PrimitiveList
 - activemq::util::PrimitiveList, 2040
- PrimitiveMap
 - activemq::util::PrimitiveMap, 2051
- PrimitiveType
 - activemq::util::PrimitiveValueNode, 2071
- PrimitiveTypesMarshaller
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2060
- PrimitiveValueConverter
 - activemq::util::PrimitiveValueConverter, 2066
- PrimitiveValueNode
 - activemq::util::PrimitiveValueNode, 2072–2074
- printStackTrace
 - cms::CMSEException, 850
 - decaf::lang::Exception, 1271
 - decaf::lang::Throwable, 2556
- priority
 - activemq::commands::ConsumerInfo, 1067
 - activemq::commands::Message, 1749
- processBeginTransaction
 - activemq::state::CommandVisitor, 885
 - activemq::state::CommandVisitorAdapter, 894

- activemq::state::ConnectionStateTracker, 1022
- processBrokerError
 - activemq::state::CommandVisitor, 885
 - activemq::state::CommandVisitorAdapter, 894
- processBrokerInfo
 - activemq::state::CommandVisitor, 885
 - activemq::state::CommandVisitorAdapter, 894
- processCommitTransactionOnePhase
 - activemq::state::CommandVisitor, 885
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1022
- processCommitTransactionTwoPhase
 - activemq::state::CommandVisitor, 885
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1022
- processConnectionControl
 - activemq::state::CommandVisitor, 885
 - activemq::state::CommandVisitorAdapter, 894
- processConnectionError
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
- processConnectionInfo
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1022
- processConsumerControl
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
- processConsumerInfo
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1023
- processControlCommand
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
- processDestinationInfo
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
- activemq::state::ConnectionStateTracker, 1023
- processEndTransaction
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1023
- processFlushCommand
 - activemq::state::CommandVisitor, 886
 - activemq::state::CommandVisitorAdapter, 894
- processForgetTransaction
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
- processKeepAliveInfo
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
- processMessage
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1023
- processMessageAck
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1023
- processMessageDispatch
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
- processMessageDispatchNotification
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
- processMessagePull
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
- processPrepareTransaction
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1023
- processProducerAck
 - activemq::state::CommandVisitor, 887
 - activemq::state::CommandVisitorAdapter, 894

- processProducerInfo
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1023
- processRecoverTransactions
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 894
- processRemoveConnection
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1024
- processRemoveConsumer
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1024
- processRemoveDestination
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 894
 - activemq::state::ConnectionStateTracker, 1024
- processRemoveInfo
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 894
- processRemoveProducer
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 895
 - activemq::state::ConnectionStateTracker, 1024
- processRemoveSession
 - activemq::state::CommandVisitor, 888
 - activemq::state::CommandVisitorAdapter, 895
 - activemq::state::ConnectionStateTracker, 1024
- processRemoveSubscriptionInfo
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 895
- processReplayCommand
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 895
- processResponse
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 895
- processRollbackTransaction
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 895
 - activemq::state::ConnectionStateTracker, 1024
- processSessionInfo
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 895
 - activemq::state::ConnectionStateTracker, 1024
- processShutdownInfo
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 895
- processTransactionInfo
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 895
- processWireFormat
 - activemq::state::CommandVisitor, 889
 - activemq::state::CommandVisitorAdapter, 896
- PRODUCER_ADVISORY_PREFIX
 - activemq::commands::ActiveMQDestination, 237
- ProducerAck
 - activemq::commands::ProducerAck, 2085
- ProducerAckMarshaller
 - activemq::wireformat::openwire::marshal::v1::ProducerAckMarshaller, 2093
 - activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller, 2097
 - activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller, 2089
- ProducerExecutor
 - activemq::cmsutil::CmsTemplate, 868
 - activemq::cmsutil::CmsTemplate::ProducerExecutor, 2101
- ProducerId
 - activemq::commands::ProducerId, 2104
- producerId
 - activemq::commands::Message, 1749
 - activemq::commands::MessageId, 1845
 - activemq::commands::ProducerAck, 2087
 - activemq::commands::ProducerInfo, 2124
- ProducerIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller, 2117
 - activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller, 2109

- activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller, 2113
- ProducerInfo
 - activemq::commands::ProducerInfo, 2121
- ProducerInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::ProducerInfoMarshaller, 2134
 - activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller, 2126
 - activemq::wireformat::openwire::marshal::v3::ProducerInfoMarshaller, 2130
- producerSequenceId
 - activemq::commands::MessageId, 1845
- ProducerState
 - activemq::state::ProducerState, 2137
- Properties
 - decaf::util::Properties, 2140
- propertyExists
 - activemq::commands::ActiveMQMessageTemplate, 301
 - cms::Message, 1765
- ProtocolException
 - decaf::net::ProtocolException, 2148, 2149
- publish
 - decaf::util::logging::Handler, 1382
 - decaf::util::logging::StreamHandler, 2472
- push
 - decaf::util::StlQueue, 2442
- put
 - decaf::internal::nio::ByteBuffer, 707
 - decaf::internal::nio::CharArrayBuffer, 812, 813
 - decaf::internal::nio::DoubleArrayBuffer, 1245, 1246
 - decaf::internal::nio::FloatArrayBuffer, 1342
 - decaf::internal::nio::IntArrayBuffer, 1413
 - decaf::internal::nio::LongArrayBuffer, 1669, 1670
 - decaf::internal::nio::ShortArrayBuffer, 2333, 2334
 - decaf::internal::util::ByteArrayAdapter, 685
 - decaf::nio::ByteBuffer, 748, 749
 - decaf::nio::CharBuffer, 825–827
 - decaf::nio::DoubleBuffer, 1255–1257
 - decaf::nio::FloatBuffer, 1351, 1352
 - decaf::nio::IntBuffer, 1422, 1423
 - decaf::nio::LongBuffer, 1679–1681
 - decaf::nio::ShortBuffer, 2343, 2344
 - decaf::util::concurrent::ConcurrentStlMap, 924
 - decaf::util::Map, 1694
 - decaf::util::StlMap, 2434
- putAll
 - decaf::internal::nio::ByteBuffer, 707
 - decaf::internal::nio::CharArrayBuffer, 812, 813
 - decaf::internal::nio::DoubleArrayBuffer, 1245, 1246
 - decaf::internal::nio::FloatArrayBuffer, 1342
 - decaf::internal::nio::IntArrayBuffer, 1413
 - decaf::internal::nio::LongArrayBuffer, 1669, 1670
 - decaf::internal::nio::ShortArrayBuffer, 2333, 2334
 - decaf::internal::util::ByteArrayAdapter, 685
 - decaf::nio::ByteBuffer, 748, 749
 - decaf::nio::CharBuffer, 825–827
 - decaf::nio::DoubleBuffer, 1255–1257
 - decaf::nio::FloatBuffer, 1351, 1352
 - decaf::nio::IntBuffer, 1422, 1423
 - decaf::nio::LongBuffer, 1679–1681
 - decaf::nio::ShortBuffer, 2343, 2344
 - decaf::util::concurrent::ConcurrentStlMap, 924
 - decaf::util::Map, 1694
 - decaf::util::StlMap, 2434
- putChar
 - decaf::internal::nio::ByteBuffer, 707, 708
- putDouble
 - decaf::internal::nio::ByteBuffer, 708, 709
- putDoubleAt
 - decaf::internal::util::ByteArrayAdapter, 686
- putFloat
 - decaf::nio::ByteBuffer, 751
- putFloatAt
 - decaf::internal::util::ByteArrayAdapter, 687
- putIfAbsent
 - decaf::util::concurrent::ConcurrentMap, 912
 - decaf::util::concurrent::ConcurrentStlMap, 925
- putInt
 - decaf::internal::nio::ByteBuffer, 710
 - decaf::internal::util::ByteArrayAdapter, 688
 - decaf::nio::ByteBuffer, 752, 753
- putIntAt
 - decaf::internal::util::ByteArrayAdapter, 688
- putLong
 - decaf::internal::nio::ByteBuffer, 711
 - decaf::internal::util::ByteArrayAdapter, 689
 - decaf::nio::ByteBuffer, 753
- putLongAt
 - decaf::internal::util::ByteArrayAdapter, 689
- putShort
 - decaf::internal::nio::ByteBuffer, 712
 - decaf::internal::util::ByteArrayAdapter, 689

- putShortAt
 - decaf::internal::util::ByteArrayAdapter, 690
- QUEUE
 - cms::Destination, 1188
- QUEUE_PREFIX
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- QUEUE_QUALIFIED_PREFIX
 - activemq::commands::ActiveMQDestination, 237
- queueTask
 - decaf::util::concurrent::ThreadPool, 2551
- quoteIllegal
 - decaf::internal::net::URLEncoderDecoder, 2648
- Random
 - decaf::util::Random, 2159
- random
 - decaf::lang::Math, 1724
- randomUUID
 - decaf::util::UUID, 2688
- read
 - activemq::io::LoggingInputStream, 1631, 1632
 - decaf::internal::io::StandardInputStream, 2403, 2404
 - decaf::internal::util::ByteArrayAdapter, 690
 - decaf::io::BlockingByteArrayInputStream, 567, 568
 - decaf::io::BufferedInputStream, 633, 634
 - decaf::io::ByteArrayInputStream, 717, 718
 - decaf::io::DataInputStream, 1116
 - decaf::io::FilterInputStream, 1316, 1317
 - decaf::io::InputStream, 1405, 1406
 - decaf::io::Reader, 2163
 - decaf::net::SocketInputStream, 2385
 - decaf::nio::CharBuffer, 828
- readAsciiString
 - activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 544
- readBoolean
 - activemq::commands::ActiveMQBytesMessage, 166
 - activemq::commands::ActiveMQStreamMessage, 376
 - activemq::wireformat::openwire::utils::BooleanStreamDecoder, 579
 - cms::BytesMessage, 760
 - cms::StreamMessage, 2476
 - decaf::io::DataInputStream, 1117
- readByte
 - activemq::commands::ActiveMQBytesMessage, 166
 - activemq::commands::ActiveMQStreamMessage, 376
 - cms::BytesMessage, 761
 - cms::StreamMessage, 2476
 - decaf::io::DataInputStream, 1117
 - decaf::io::Reader, 2163
- readBytes
 - activemq::commands::ActiveMQBytesMessage, 166, 167
 - activemq::commands::ActiveMQStreamMessage, 377
 - cms::BytesMessage, 761, 762
 - cms::StreamMessage, 2477
- readChar
 - activemq::commands::ActiveMQBytesMessage, 167
 - activemq::commands::ActiveMQStreamMessage, 378
 - cms::BytesMessage, 762
 - cms::StreamMessage, 2478
 - decaf::io::DataInputStream, 1118
- readDouble
 - activemq::commands::ActiveMQBytesMessage, 168
 - activemq::commands::ActiveMQStreamMessage, 378
 - cms::BytesMessage, 763
 - cms::StreamMessage, 2478
 - decaf::io::DataInputStream, 1118
- readFloat
 - activemq::commands::ActiveMQBytesMessage, 168
 - activemq::commands::ActiveMQStreamMessage, 378
 - cms::BytesMessage, 763
 - cms::StreamMessage, 2479
 - decaf::io::DataInputStream, 1118
- readFully
 - decaf::io::DataInputStream, 1118, 1119
- readInt
 - activemq::commands::ActiveMQBytesMessage, 168
 - activemq::commands::ActiveMQStreamMessage, 378
 - cms::BytesMessage, 763
 - cms::StreamMessage, 2479
 - decaf::io::DataInputStream, 1119
- readLock
 - decaf::util::concurrent::locks::ReadWriteLock, 2169
- readLong
 -

- activemq::commands::ActiveMQBytesMessage, 168
- activemq::commands::ActiveMQStreamMessage, 379
- cms::BytesMessage, 764
- cms::StreamMessage, 2479
- decaf::io::DataInputStream, 1120
- readOnly
 - decaf::internal::nio::CharArrayBuffer, 814
- ReadOnlyBufferException
 - decaf::nio::ReadOnlyBufferException, 2165, 2166
- readShort
 - activemq::commands::ActiveMQBytesMessage, 169
 - activemq::commands::ActiveMQStreamMessage, 379
 - cms::BytesMessage, 764
 - cms::StreamMessage, 2480
 - decaf::io::DataInputStream, 1120
- readString
 - activemq::commands::ActiveMQBytesMessage, 169
 - activemq::commands::ActiveMQStreamMessage, 379
 - activemq::wireformat::openwire::utils::OpenwireStringsSupport, 1988
 - cms::BytesMessage, 764
 - cms::StreamMessage, 2480
 - decaf::io::DataInputStream, 1120
- readUnsignedByte
 - decaf::io::DataInputStream, 1121
- readUnsignedShort
 - activemq::commands::ActiveMQBytesMessage, 169
 - activemq::commands::ActiveMQStreamMessage, 380
 - cms::BytesMessage, 765
 - cms::StreamMessage, 2480
 - decaf::io::DataInputStream, 1121
- readUTF
 - activemq::commands::ActiveMQBytesMessage, 170
 - cms::BytesMessage, 765
 - decaf::io::DataInputStream, 1121
- RECEIPT
 - activemq::wireformat::stomp::StompCommandContainer, 2452
- receive
 - activemq::cmsutil::CachedConsumer, 772, 773
 - activemq::cmsutil::CmsTemplate, 862, 863
 - activemq::core::ActiveMQConsumer, 222, 223
 - cms::MessageConsumer, 1794, 1795
 - RECEIVE_TIMEOUT_INDEFINITE_WAIT
 - activemq::cmsutil::CmsTemplate, 868
 - RECEIVE_TIMEOUT_NO_WAIT
 - activemq::cmsutil::CmsTemplate, 868
 - ReceiveExecutor
 - activemq::cmsutil::CmsTemplate, 868
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2170
 - receiveNoWait
 - activemq::cmsutil::CachedConsumer, 773
 - activemq::core::ActiveMQConsumer, 223
 - cms::MessageConsumer, 1795
 - ReceiveSelected
 - activemq::cmsutil::CmsTemplate, 863, 864
 - retrievedByDFBridge
 - activemq::commands::Message, 1749
 - reconnect
 - activemq::transport::failover::FailoverTransport, 1301
 - activemq::transport::IOTransport, 1481
 - activemq::transport::mock::MockTransport, 1913
 - activemq::transport::Transport, 2609
 - activemq::transport::TransportFilter, 2619
 - recover
 - activemq::cmsutil::PooledSession, 2028
 - activemq::core::ActiveMQSession, 363
 - cms::Session, 2279
 - redeliveryCounter
 - activemq::commands::Message, 1749
 - activemq::commands::MessageDispatch, 1802
 - redispatch
 - activemq::core::ActiveMQSession, 364
 - ReferenceType
 - decaf::lang::Pointer, 2011
 - registerFactory
 - activemq::transport::TransportRegistry, 2625
 - activemq::wireformat::WireFormatRegistry, 2721
 - registerSecurityProvider
 - decaf::security_-
 - provider::SecurityProviderMap, 2262
 - RejectedExecutionException
 - decaf::util::concurrent::RejectedExecutionException, 2172, 2173
 - relativize
 - decaf::net::URI, 2644
 - release
 - decaf::lang::AtomicRefCounter, 494
 - releaseAll

- activemq::cmsutil::ResourceLifecycleManagerRemoveSubscriptionInfo
 - 2228
- remaining
 - decaf::nio::Buffer, 629
- remove
 - activemq::util::ActiveMQProperties, 333
 - cms::CMSProperties, 853
 - decaf::util::AbstractCollection, 128
 - decaf::util::AbstractQueue, 136
 - decaf::util::Collection, 874
 - decaf::util::concurrent::ConcurrentMap, 912
 - decaf::util::concurrent::ConcurrentStlMap, 926
 - decaf::util::Iterator, 1488
 - decaf::util::List, 1593
 - decaf::util::Map, 1696
 - decaf::util::Properties, 2144
 - decaf::util::Queue, 2154
 - decaf::util::StlList, 2424, 2425
 - decaf::util::StlMap, 2435
 - decaf::util::StlSet, 2449
- removeAll
 - activemq::core::MessageDispatchChannel, 1806
 - decaf::util::AbstractCollection, 128
 - decaf::util::AbstractSet, 139
 - decaf::util::Collection, 875
- removeConsumer
 - activemq::state::SessionState, 2317
- removeDispatcher
 - activemq::core::ActiveMQConnection, 195
- removeHandler
 - decaf::util::logging::Logger, 1627
- RemoveInfo
 - activemq::commands::RemoveInfo, 2176
- RemoveInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::RemoveInfoMarshaller, 2184
 - activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller, 2180
 - activemq::wireformat::openwire::marshal::v3::RemoveInfoMarshaller, 2188
- removeProducer
 - activemq::core::ActiveMQConnection, 196
 - activemq::state::SessionState, 2317
- removeProperty
 - activemq::wireformat::stomp::StompFrame, 2457
- removePropertyChangeListener
 - decaf::util::logging::LogManager, 1642
- removeSession
 - activemq::core::ActiveMQConnection, 196
 - activemq::state::ConnectionState, 1018
- RemoveSubscriptionInfo
 - activemq::commands::RemoveSubscriptionInfo, 2192
- RemoveSubscriptionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::RemoveSubscriptionInfoMarshaller, 2205
 - activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller, 2197
 - activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller, 2201
- removeSynchronization
 - activemq::core::ActiveMQTransactionContext, 481
- removeTask
 - activemq::threads::CompositeTaskRunner, 907
- removeTempDestination
 - activemq::state::ConnectionState, 1018
- RemoveTransactionAction
 - activemq::state::ConnectionStateTracker, 1025
- removeTransactionState
 - activemq::state::ConnectionState, 1018
- removeURI
 - activemq::transport::CompositeTransport, 909
 - activemq::transport::failover::FailoverTransport, 1301
 - activemq::transport::failover::URIPool, 2658
- renegotiateWireFormat
 - activemq::wireformat::openwire::OpenWireFormat, 1975
- replace
 - decaf::util::concurrent::ConcurrentMap, 913, 914
 - decaf::util::concurrent::ConcurrentStlMap, 927
- ReplayCommand
 - activemq::commands::ReplayCommand, 2209
- ReplayCommandMarshaller
 - activemq::wireformat::openwire::marshal::v1::ReplayCommandMarshaller, 2221
 - activemq::wireformat::openwire::marshal::v2::ReplayCommandMarshaller, 2213
 - activemq::wireformat::openwire::marshal::v3::ReplayCommandMarshaller, 2217
- replyTo
 - activemq::commands::Message, 1749
- request
 - activemq::transport::correlator::ResponseCorrelator, 2237

- activemq::transport::failover::FailoverTransport, 1301, 1302
- activemq::transport::IOTransport, 1482
- activemq::transport::logging::LoggingTransport, 1636
- activemq::transport::mock::MockTransport, 1913
- activemq::transport::Transport, 2609, 2610
- activemq::transport::TransportFilter, 2619
- activemq::wireformat::openwire::OpenWireFormatNegotiator, 1984
- reserve
 - decaf::util::concurrent::ThreadPool, 2551
- reset
 - activemq::commands::ActiveMQBytesMessage, 170
 - activemq::commands::ActiveMQStreamMessage, 380
 - activemq::state::ConnectionState, 1019
 - cms::BytesMessage, 765
 - decaf::internal::io::StandardInputStream, 2404
 - decaf::io::BlockingByteArrayInputStream, 568
 - decaf::io::BufferedInputStream, 634
 - decaf::io::ByteArrayInputStream, 718
 - decaf::io::ByteArrayOutputStream, 723
 - decaf::io::FilterInputStream, 1317
 - decaf::io::InputStream, 1406
 - decaf::lang::Pointer, 2014
 - decaf::net::SocketInputStream, 2385
 - decaf::nio::Buffer, 630
 - decaf::util::StringTokenizer, 2488
- resize
 - decaf::internal::util::ByteArrayAdapter, 691
- resolve
 - decaf::net::URI, 2645
- resolveDestinationName
 - activemq::cmsutil::CmsDestinationAccessor, 847
 - activemq::cmsutil::DestinationResolver, 1210
 - activemq::cmsutil::DynamicDestinationResolver, 1261
- ResolveProducerExecutor
 - activemq::cmsutil::CmsTemplate, 868
 - activemq::cmsutil::CmsTemplate::ResolveProducerExecutor, 2224
- ResolveReceiveExecutor
 - activemq::cmsutil::CmsTemplate, 868
 - activemq::cmsutil::CmsTemplate::ResolveReceiveExecutor, 2225
- ResourceLifecycleManager
 - activemq::cmsutil::ResourceLifecycleManager, 2226
 - Response
 - activemq::commands::Response, 2230
 - ResponseCorrelator
 - activemq::transport::correlator::ResponseCorrelator, 2236
 - ResponseMarshaller
 - activemq::wireformat::openwire::marshal::v1::ResponseMarshaller, 2230
 - activemq::wireformat::openwire::marshal::v2::ResponseMarshaller, 2240
 - activemq::wireformat::openwire::marshal::v3::ResponseMarshaller, 2245
 - restore
 - activemq::state::ConnectionStateTracker, 1025
 - restoreTransport
 - activemq::transport::failover::FailoverTransport, 1302
 - result
 - activemq::commands::IntegerResponse, 1442
 - resume
 - activemq::commands::ConnectionControl, 947
 - retainAll
 - decaf::util::AbstractCollection, 129
 - decaf::util::Collection, 875
 - retroactive
 - activemq::commands::ConsumerInfo, 1067
 - returnInstance
 - decaf::util::logging::LogManager, 1642
 - decaf::util::logging::LogWriter, 1649
 - returnRef
 - decaf::internal::nio::ByteArrayPerspective, 730
 - returnSession
 - activemq::cmsutil::SessionPool, 2315
 - reverse
 - decaf::lang::Integer, 1435
 - decaf::lang::Long, 1658
 - decaf::util::StlQueue, 2442
 - reverseBytes
 - decaf::lang::Integer, 1435
 - decaf::lang::Long, 1659
 - decaf::lang::Short, 2325
 - rewind
 - decaf::nio::Buffer, 630
 - rollback
 - activemq::cmsutil::PooledSession, 2028
 - activemq::core::ActiveMQConsumer, 223
 - activemq::core::ActiveMQSession, 364

- activemq::core::ActiveMQTransactionContext, 481
- cms::Session, 2279
- rotateLeft
 - decaf::lang::Integer, 1435
 - decaf::lang::Long, 1659
- rotateRight
 - decaf::lang::Integer, 1435
 - decaf::lang::Long, 1659
- round
 - decaf::lang::Math, 1725
- run
 - activemq::threads::CompositeTaskRunner, 907
 - activemq::threads::DedicatedTaskRunner, 1181
 - activemq::transport::IOTransport, 1482
 - activemq::transport::mock::InternalCommandList, 1456
 - decaf::lang::Runnable, 2254
 - decaf::lang::Thread, 2543
 - decaf::util::concurrent::PooledThread, 2031
- RuntimeException
 - decaf::lang::exceptions::RuntimeException, 2257, 2258
- SECONDS
 - decaf::util::concurrent::TimeUnit, 2568
- SecurityProviderRegistrar
 - decaf::security_ - provider::SecurityProviderRegistrar, 2263
- selector
 - activemq::cmsutil::CmsTemplate::ReceiveExecutor, 2171
 - activemq::commands::ConsumerInfo, 1067
 - activemq::commands::SubscriptionInfo, 2493
- SEND
 - activemq::wireformat::stomp::StompCommandCommand, 2452
- send
 - activemq::cmsutil::CachedProducer, 778, 779
 - activemq::cmsutil::CmsTemplate, 864, 865
 - activemq::core::ActiveMQProducer, 327, 328
 - activemq::core::ActiveMQSession, 364
 - cms::MessageProducer, 1879, 1880
- SendExecutor
 - activemq::cmsutil::CmsTemplate, 868
 - activemq::cmsutil::CmsTemplate::SendExecutor, 2265
- sendPullRequest
 - activemq::core::ActiveMQConnection, 196
 - ServerSocket
 - decaf::net::ServerSocket, 2266
 - serviceName
 - activemq::commands::DiscoveryEvent, 1214
 - SESSION_TRANSACTED
 - cms::Session, 2271
 - SessionId
 - activemq::commands::SessionId, 2283
 - sessionId
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::ProducerId, 2106
 - activemq::commands::SessionInfo, 2301
 - SessionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller, 2287
 - activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller, 2295
 - activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller, 2291
 - SessionInfo
 - activemq::commands::SessionInfo, 2299
 - SessionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller, 2303
 - activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller, 2307
 - activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller, 2311
 - SessionPool
 - activemq::cmsutil::SessionPool, 2314
 - SessionState
 - activemq::state::SessionState, 2317
 - set
 - decaf::util::concurrent::atomic::AtomicBoolean, 487
 - decaf::util::concurrent::atomic::AtomicInteger, 493
 - decaf::util::concurrent::atomic::AtomicReference, 497
 - decaf::util::List, 1594
 - decaf::util::ListIterator, 1597
 - decaf::util::StlList, 2425
 - setAbsolute
 - decaf::internal::net::URIType, 2671
 - setAckHandler
 - activemq::commands::Message, 1745
 - setAckMode
 - activemq::commands::SessionInfo, 2300
 - setAckType
 - activemq::commands::MessageAck, 1779
 - setAdditionalPredicate
 - activemq::commands::ConsumerInfo, 1065

- setAdvisory
 - activemq::commands::ActiveMQDestination, 234
- setAlwaysSyncSend
 - activemq::core::ActiveMQConnectionSupport, 211
- setArrival
 - activemq::commands::Message, 1745
- setAuthority
 - decaf::internal::net::URIType, 2671
- setBackOffMultiplier
 - activemq::transport::failover::FailoverTransport, 1303
- setBackup
 - activemq::transport::failover::FailoverTransport, 1303
- setBackupPoolSize
 - activemq::transport::failover::BackupTransportPool, 504
 - activemq::transport::failover::FailoverTransport, 1303
- setBlockSize
 - decaf::util::concurrent::ThreadPool, 2551
- setBody
 - activemq::wireformat::stomp::StompFrame, 2457
- setBodyBytes
 - activemq::commands::ActiveMQBytesMessage, 170
 - cms::BytesMessage, 766
- setBool
 - activemq::util::PrimitiveList, 2044
 - activemq::util::PrimitiveMap, 2055
 - activemq::util::PrimitiveValueNode, 2078
- setBoolean
 - activemq::commands::ActiveMQMapMessage, 261
 - cms::MapMessage, 1705
- setBooleanProperty
 - activemq::commands::ActiveMQMessageTemplate, 302
 - activemq::wireformat::openwire::utils::MessageProperty, 1887
 - cms::Message, 1766
- setBranchQualifier
 - activemq::commands::XATransactionId, 2732
- setBrokerId
 - activemq::commands::BrokerInfo, 610
- setBrokerInTime
 - activemq::commands::Message, 1746
- setBrokerMasterConnector
 - activemq::commands::ConnectionInfo, 999
- setBrokerName
 - activemq::commands::BrokerInfo, 610
 - activemq::commands::DiscoveryEvent, 1213
- setBrokerOutTime
 - activemq::commands::Message, 1746
- setBrokerPath
 - activemq::commands::ConnectionInfo, 999
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::DestinationInfo, 1195
 - activemq::commands::Message, 1746
 - activemq::commands::ProducerInfo, 2123
- setBrokerSequenceId
 - activemq::commands::MessageId, 1844
- setBrokerUploadUrl
 - activemq::commands::BrokerInfo, 610
- setBrokerURL
 - activemq::commands::BrokerInfo, 610
 - activemq::core::ActiveMQConnectionFactory, 201
- setBrowser
 - activemq::commands::ConsumerInfo, 1065
- setBuffer
 - decaf::io::ByteArrayInputStream, 718
 - decaf::io::ByteArrayOutputStream, 723
- setByte
 - activemq::commands::ActiveMQMapMessage, 261
 - activemq::util::PrimitiveList, 2045
 - activemq::util::PrimitiveMap, 2056
 - activemq::util::PrimitiveValueNode, 2078
 - cms::MapMessage, 1705
- setByteArray
 - activemq::util::PrimitiveList, 2045
 - activemq::util::PrimitiveMap, 2056
 - activemq::util::PrimitiveValueNode, 2078
 - decaf::io::BlockingByteArrayInputStream, 568
 - decaf::io::ByteArrayInputStream, 718
- setByteProperty
 - activemq::commands::ActiveMQMessageTemplate, 302
- setByteInterceptor
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1888
 - cms::Message, 1766
- setBytes
 - activemq::commands::ActiveMQMapMessage, 262
 - cms::MapMessage, 1705
- setCacheEnabled
 - activemq::commands::WireFormatInfo, 2704
 - activemq::wireformat::openwire::OpenWireFormat, 1975

- set CacheSize
 - activemq::commands::WireFormatInfo, 2704
 - activemq::wireformat::openwire::OpenWireFormat, 1976
- set Cause
 - activemq::commands::BrokerError, 586
- set Char
 - activemq::commands::ActiveMQMapMessage, 262
 - activemq::util::PrimitiveList, 2045
 - activemq::util::PrimitiveMap, 2056
 - activemq::util::PrimitiveValueNode, 2079
 - cms::MapMessage, 1706
- set ClientId
 - activemq::commands::ConnectionInfo, 999
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::RemoveSubscriptionInfo, 2194
 - activemq::commands::SubscriptionInfo, 2492
 - activemq::core::ActiveMQConnectionSupport, 211
- set ClientMaster
 - activemq::commands::ConnectionInfo, 999
- set Close
 - activemq::commands::ConnectionControl, 946
 - activemq::commands::ConsumerControl, 1029
- set Closed
 - activemq::transport::failover::BackupTransport, 500
- set CloseTimeout
 - activemq::core::ActiveMQConnectionSupport, 211
- set Cluster
 - activemq::commands::Message, 1746
- set CMSCorrelationID
 - activemq::commands::ActiveMQMessageTemplate, 302
 - cms::Message, 1767
- set CMSDeliveryMode
 - activemq::commands::ActiveMQMessageTemplate, 302
 - cms::Message, 1768
- set CMSDestination
 - activemq::commands::ActiveMQMessageTemplate, 303
 - cms::Message, 1768
- set CMSExpiration
 - activemq::commands::ActiveMQMessageTemplate, 303
 - cms::Message, 1768
- set CMSMessageID
 - activemq::commands::ActiveMQMessageTemplate, 303
 - cms::Message, 1769
- set CMSPriority
 - activemq::commands::ActiveMQMessageTemplate, 304
 - cms::Message, 1769
- set CMSRedelivered
 - activemq::commands::ActiveMQMessageTemplate, 304
 - cms::Message, 1769
- set CMSReplyTo
 - activemq::commands::ActiveMQMessageTemplate, 304
 - cms::Message, 1770
- set CMSTimestamp
 - activemq::commands::ActiveMQMessageTemplate, 304
 - cms::Message, 1770
- set CMSType
 - activemq::commands::ActiveMQMessageTemplate, 305
 - cms::Message, 1771
- set Command
 - activemq::commands::ControlCommand, 1083
 - activemq::wireformat::stomp::StompFrame, 2457
- set CommandId
 - activemq::commands::BaseCommand, 510
 - activemq::commands::Command, 880
 - activemq::commands::PartialCommand, 1995
- set Components
 - activemq::util::CompositeData, 903
- set Compressed
 - activemq::commands::Message, 1746
- set Connection
 - activemq::commands::ActiveMQTempDestination, 399
- set ConnectionFactory
 - activemq::cmsutil::CmsAccessor, 844
- set ConnectionId
 - activemq::commands::BrokerInfo, 610
 - activemq::commands::ConnectionError, 962
 - activemq::commands::ConnectionInfo, 999
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::DestinationInfo, 1195
 - activemq::commands::LocalTransactionId, 1601

- activemq::commands::ProducerId, 2106
- activemq::commands::RemoveSubscriptionInfo, 2194
- activemq::commands::SessionId, 2285
- activemq::commands::TransactionInfo, 2590
- setConsumerId
 - activemq::commands::ConsumerControl, 1029
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::MessageAck, 1779
 - activemq::commands::MessageDispatch, 1801
 - activemq::commands::MessageDispatchNotification, 1825
 - activemq::commands::MessagePull, 1894
- setContent
 - activemq::commands::Message, 1746
- setCorrelationId
 - activemq::commands::Message, 1746
 - activemq::commands::MessagePull, 1894
 - activemq::commands::Response, 2231
- setData
 - activemq::commands::DataArrayResponse, 1101
 - activemq::commands::DataResponse, 1132
 - activemq::commands::PartialCommand, 1995
- setDataStructure
 - activemq::commands::Message, 1746
- setDefaultDestination
 - activemq::cmsutil::CmsTemplate, 865
- setDefaultDestinationName
 - activemq::cmsutil::CmsTemplate, 865
- setDeletedByBroker
 - activemq::commands::ActiveMQBlobMessage, 147
- setDeliveryMode
 - activemq::cmsutil::CachedProducer, 779
 - activemq::cmsutil::CmsTemplate, 865
 - activemq::core::ActiveMQProducer, 328
 - cms::MessageProducer, 1880
- setDeliveryPersistent
 - activemq::cmsutil::CmsTemplate, 866
- setDeliverySequenceId
 - activemq::commands::MessageDispatchNotification, 1825
- setDestination
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::DestinationInfo, 1195
 - activemq::commands::JournalQueueAck, 1491
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::Message, 1746
 - activemq::commands::MessageAck, 1779
 - activemq::commands::MessageDispatch, 1801
 - activemq::commands::MessageDispatchNotification, 1825
 - activemq::commands::MessagePull, 1894
 - activemq::commands::ProducerInfo, 2123
 - activemq::commands::SubscriptionInfo, 2492
- setDestinationResolver
 - activemq::cmsutil::CmsDestinationAccessor, 847
- setDisableMessageID
 - activemq::cmsutil::CachedProducer, 779
 - activemq::core::ActiveMQProducer, 328
 - cms::MessageProducer, 1880
- setDisableMessageTimeStamp
 - activemq::cmsutil::CachedProducer, 780
 - activemq::core::ActiveMQProducer, 328
 - cms::MessageProducer, 1881
- setDispatchAsync
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::ProducerInfo, 2123
- setDouble
 - activemq::commands::ActiveMQMapMessage, 262
 - activemq::util::PrimitiveList, 2046
 - activemq::util::PrimitiveMap, 2056
 - activemq::util::PrimitiveValueNode, 2079
 - cms::MapMessage, 1706
- setDoubleProperty
 - activemq::commands::ActiveMQMessageTemplate, 305
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1888
 - cms::Message, 1772
- setDroppable
 - activemq::commands::Message, 1746
- setDuplexConnection
 - activemq::commands::BrokerInfo, 610
- setEnabled
 - activemq::transport::failover::BackupTransportPool, 504
- setException
 - decaf::lang::System, 2516
 - activemq::commands::ConnectionError, 962
 - activemq::commands::ExceptionResponse, 1276
- setExceptionClass

- activemq::commands::BrokerError, 587
- setExceptionListener
 - activemq::core::ActiveMQConnection, 196
 - cms::Connection, 942
- setExclusive
 - activemq::commands::ActiveMQDestination, 234
 - activemq::commands::ConsumerInfo, 1065
- setExit
 - activemq::commands::ConnectionControl, 946
- setExpiration
 - activemq::commands::Message, 1746
- setExplicitQosEnabled
 - activemq::cmsutil::CmsTemplate, 866
- setFailOnReceiveMessage
 - activemq::transport::mock::MockTransport, 1914
- setFailOnSendMessage
 - activemq::transport::mock::MockTransport, 1914
- setFaultTolerant
 - activemq::commands::ConnectionControl, 946
- setFaultTolerantConfiguration
 - activemq::commands::BrokerInfo, 610
- setFilter
 - decaf::util::logging::Handler, 1382
 - decaf::util::logging::Logger, 1628
 - decaf::util::logging::StreamHandler, 2472
- setFirstMessageId
 - activemq::commands::MessageAck, 1779
- setFirstNakNumber
 - activemq::commands::ReplayCommand, 2210
- setFloat
 - activemq::commands::ActiveMQMapMessage, 262
 - activemq::util::PrimitiveList, 2046
 - activemq::util::PrimitiveMap, 2057
 - activemq::util::PrimitiveValueNode, 2079
 - cms::MapMessage, 1706
- setFloatProperty
 - activemq::commands::ActiveMQMessageTemplate, 305
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptors, 1888
 - cms::Message, 1772
- setFlush
 - activemq::commands::ConsumerControl, 1029
- setFormatId
 - activemq::commands::XATransactionId, 2732
- setFormatter
 - decaf::util::logging::Handler, 1382
 - decaf::util::logging::StreamHandler, 2473
- setFragment
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2671
- setGlobalTransactionId
 - activemq::commands::XATransactionId, 2732
- setGroupID
 - activemq::commands::Message, 1746
- setGroupSequence
 - activemq::commands::Message, 1746
- setHost
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2672
- setInitialized
 - activemq::transport::failover::FailoverTransport, 1303
- setInitialReconnectDelay
 - activemq::transport::failover::FailoverTransport, 1303
- setInputStream
 - activemq::transport::IOTransport, 1483
 - decaf::io::Reader, 2164
- setInt
 - activemq::commands::ActiveMQMapMessage, 263
 - activemq::util::PrimitiveList, 2046
 - activemq::util::PrimitiveMap, 2057
 - activemq::util::PrimitiveValueNode, 2079
 - cms::MapMessage, 1706
- setIntProperty
 - activemq::commands::ActiveMQMessageTemplate, 306
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptors, 1889
 - cms::Message, 1772
- setKeepAlive
 - decaf::net::BufferedSocket, 643
 - decaf::net::Socket, 2373
 - decaf::net::TcpSocket, 2527
- setLastMessageId
 - activemq::commands::MessageAck, 1779
- setLastNakNumber
 - activemq::commands::ReplayCommand, 2210
- setLevel
 - decaf::util::logging::Handler, 1382
 - decaf::util::logging::Logger, 1628
 - decaf::util::logging::LogRecord, 1645
 - decaf::util::logging::StreamHandler, 2473
- setLimit
 - activemq::util::MemoryUsage, 1733

- setList
 - activemq::util::PrimitiveValueNode, 2079
- setLoggerName
 - decaf::util::logging::LogRecord, 1645
- setLong
 - activemq::commands::ActiveMQMapMessage, 263
 - activemq::util::PrimitiveList, 2047
 - activemq::util::PrimitiveMap, 2057
 - activemq::util::PrimitiveValueNode, 2080
 - cms::MapMessage, 1707
- setLongProperty
 - activemq::commands::ActiveMQMessageTemplate, 306
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1889
 - cms::Message, 1773
- setMagic
 - activemq::commands::WireFormatInfo, 2704
- setManageable
 - activemq::commands::ConnectionInfo, 999
- setMap
 - activemq::util::PrimitiveValueNode, 2080
- setMark
 - cms::CMSException, 850
 - decaf::lang::Exception, 1271
 - decaf::lang::Throwable, 2556
- setMarshaledForm
 - activemq::commands::BaseDataStructure, 557
 - activemq::wireformat::MarshalAware, 1712
- setMarshaledProperties
 - activemq::commands::Message, 1746
 - activemq::commands::WireFormatInfo, 2704
- setMasterBroker
 - activemq::commands::BrokerInfo, 610
- setMaxCacheSize
 - activemq::state::ConnectionStateTracker, 1025
 - activemq::transport::failover::FailoverTransport, 1304
- setMaximumPendingMessageLimit
 - activemq::commands::ConsumerInfo, 1065
- setMaxInactivityDuration
 - activemq::commands::WireFormatInfo, 2704
 - activemq::wireformat::openwire::OpenWireFormat, 1976
- setMaxInactivityDurationInitialDelay
 - activemq::commands::WireFormatInfo, 2704
- setMaxInactivityDurationInitialDelay
 - activemq::wireformat::openwire::OpenWireFormat, 1976
- setMaxReconnectAttempts
 - activemq::transport::failover::FailoverTransport, 1304
- setMaxReconnectDelay
 - activemq::transport::failover::FailoverTransport, 1304
- setMaxThreads
 - decaf::util::concurrent::ThreadPool, 2551
- setMessage
 - activemq::commands::BrokerError, 587
 - activemq::commands::JournalTrace, 1524
 - activemq::commands::MessageDispatch, 1801
 - decaf::lang::Exception, 1271
 - decaf::util::logging::LogRecord, 1645
- setMessageAck
 - activemq::commands::JournalQueueAck, 1491
- setMessageCount
 - activemq::commands::MessageAck, 1779
- setMessageId
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::Message, 1746
 - activemq::commands::MessageDispatchNotification, 1825
 - activemq::commands::MessagePull, 1894
- setMessageIdEnabled
 - activemq::cmsutil::CmsTemplate, 866
- setMessageListener
 - activemq::cmsutil::CachedConsumer, 773
 - activemq::core::ActiveMQConsumer, 223
 - cms::MessageConsumer, 1795
- setMessageSequenceId
 - activemq::commands::JournalTopicAck, 1508
- setMessageTimestampEnabled
 - activemq::cmsutil::CmsTemplate, 867
- setMimeType
 - activemq::commands::ActiveMQBlobMessage, 147
- setName
 - activemq::commands::ActiveMQBlobMessage, 147
- setNetworkBrokerId
 - activemq::commands::NetworkBridgeFilter, 1924
- setNetworkConnection
 - activemq::commands::BrokerInfo, 610
- setNetworkProperties
 - activemq::commands::BrokerInfo, 610
- setNetworkSubscription

- activemq::commands::ConsumerInfo, 1065
- setNetworkTTL
 - activemq::commands::NetworkBridgeFilter, 1924
- setNoLocal
 - activemq::cmsutil::CmsTemplate, 867
 - activemq::commands::ConsumerInfo, 1065
- setNoRangeAcks
 - activemq::commands::ConsumerInfo, 1065
- setNumReceivedMessageBeforeFail
 - activemq::transport::mock::MockTransport, 1914
- setNumReceivedMessages
 - activemq::transport::mock::MockTransport, 1914
- setNumSentMessageBeforeFail
 - activemq::transport::mock::MockTransport, 1914
- setNumSentMessages
 - activemq::transport::mock::MockTransport, 1914
- setObjectId
 - activemq::commands::RemoveInfo, 2177
- setOpaque
 - decaf::internal::net::URIType, 2672
- setOperationType
 - activemq::commands::DestinationInfo, 1195
- setOptimizedAcknowledge
 - activemq::commands::ConsumerInfo, 1065
- setOrdered
 - activemq::commands::ActiveMQDestination, 235
- setOrderedTarget
 - activemq::commands::ActiveMQDestination, 235
- setOriginalDestination
 - activemq::commands::Message, 1746
- setOriginalTransactionId
 - activemq::commands::Message, 1746
- setOutgoingListener
 - activemq::transport::mock::MockTransport, 1914
- setOutputStream
 - activemq::transport::IOTransport, 1483
 - decaf::io::Writer, 2723
- setParameters
 - activemq::util::CompositeData, 903
- setPassword
 - activemq::commands::ConnectionInfo, 999
 - activemq::core::ActiveMQConnectionFactory, 201
 - activemq::core::ActiveMQConnectionSupport, 211
- setPath
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2672
- setPeerBrokerInfos
 - activemq::commands::BrokerInfo, 610
- setPersistent
 - activemq::commands::Message, 1746
- setPhysicalName
 - activemq::commands::ActiveMQDestination, 235
- setPooledThreadListener
 - decaf::util::concurrent::PooledThread, 2031
- setPort
 - decaf::internal::net::URIType, 2672
- setPreferredWireFormatInfo
 - activemq::wireformat::openwire::OpenWireFormat, 1976
- setPrefetch
 - activemq::commands::ConsumerControl, 1029
- setPrefetchSize
 - activemq::commands::ConsumerInfo, 1065
- setPrepared
 - activemq::state::TransactionState, 2605
- setPreparedResult
 - activemq::state::TransactionState, 2605
- setPriority
 - activemq::cmsutil::CachedProducer, 780
 - activemq::cmsutil::CmsTemplate, 867
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::Message, 1746
 - activemq::core::ActiveMQProducer, 329
 - cms::MessageProducer, 1881
- setProducerId
 - activemq::commands::Message, 1746
 - activemq::commands::MessageId, 1844
 - activemq::commands::ProducerAck, 2086
 - activemq::commands::ProducerInfo, 2123
- setProducerSequenceId
 - activemq::commands::MessageId, 1844
- setProducerWindowSize
 - activemq::core::ActiveMQConnectionSupport, 212
- setProperties
 - activemq::commands::WireFormatInfo, 2705
 - activemq::util::ActiveMQProperties, 333
 - decaf::util::logging::LogManager, 1642
- setProperty
 - activemq::util::ActiveMQProperties, 333
 - activemq::wireformat::stomp::StompFrame, 2458
 - cms::CMSProperties, 853
 - decaf::util::Properties, 2144

- setPubSubDomain
 - activemq::cmsutil::CmsDestinationAccessor, 847
 - activemq::cmsutil::CmsTemplate, 867
- setQuery
 - decaf::internal::net::URIType, 2672
- setRandomize
 - activemq::transport::failover::FailoverTransport, 1304
 - activemq::transport::failover::URIPool, 2659
- setReadOnly
 - decaf::internal::nio::ByteBuffer, 713
 - decaf::internal::nio::CharArrayBuffer, 813
 - decaf::internal::nio::DoubleArrayBuffer, 1246
 - decaf::internal::nio::FloatArrayBuffer, 1343
 - decaf::internal::nio::IntArrayBuffer, 1414
 - decaf::internal::nio::LongArrayBuffer, 1670
 - decaf::internal::nio::ShortArrayBuffer, 2334
- setReadOnlyBody
 - activemq::commands::Message, 1746
- setReadOnlyProperties
 - activemq::commands::Message, 1747
- setReceiveBufferSize
 - decaf::net::BufferedSocket, 643
 - decaf::net::Socket, 2373
 - decaf::net::TcpSocket, 2527
- setReceiveTimeout
 - activemq::cmsutil::CmsTemplate, 867
- setRecievedByDFBridg
 - activemq::commands::Message, 1747
- setReconnectDelay
 - activemq::transport::failover::FailoverTransport, 1304
- setRedeliveryCounter
 - activemq::commands::Message, 1747
 - activemq::commands::MessageDispatch, 1801
- setRemoteBlobUrl
 - activemq::commands::ActiveMQBlobMessage, 147
- setReplyTo
 - activemq::commands::Message, 1747
- setResponse
 - activemq::transport::correlator::FutureResponse, 1376
- setResponseBuilder
 - activemq::transport::mock::InternalCommandListener, 1456
 - activemq::transport::mock::MockTransport, 1914
- setResponseRequired
 - activemq::commands::BaseCommand, 510
 - activemq::commands::Command, 880
- setRestoreConsumers
 - activemq::state::ConnectionStateTracker, 1025
- setRestoreProducers
 - activemq::state::ConnectionStateTracker, 1025
- setRestoreSessions
 - activemq::state::ConnectionStateTracker, 1025
- setRestoreTransaction
 - activemq::state::ConnectionStateTracker, 1025
- setResult
 - activemq::commands::IntegerResponse, 1442
- setResume
 - activemq::commands::ConnectionControl, 946
- setRetroactive
 - activemq::commands::ConsumerInfo, 1065
- setReuseAddress
 - decaf::net::BufferedSocket, 644
 - decaf::net::Socket, 2374
 - decaf::net::TcpSocket, 2528
- setScheme
 - activemq::util::CompositeData, 903
 - decaf::internal::net::URIType, 2672
- setSchemeSpecificPart
 - decaf::internal::net::URIType, 2673
- setSeed
 - decaf::util::Random, 2162
- setSelector
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::SubscriptionInfo, 2492
- setSendBufferSize
 - decaf::net::BufferedSocket, 644
 - decaf::net::Socket, 2374
 - decaf::net::TcpSocket, 2528
- setSendTimeout
 - activemq::core::ActiveMQConnectionSupport, 212
 - activemq::core::ActiveMQProducer, 329
- setServerAuthority
 - decaf::internal::net::URIType, 2673
- setServiceName
 - activemq::commands::DiscoveryEvent,
- setSessionAcknowledgeMode
 - activemq::cmsutil::CmsAccessor, 844
- setSessionId
 - activemq::commands::ConsumerId, 1046

- activemq::commands::ProducerId, 2106
- activemq::commands::SessionInfo, 2300
- setShort
 - activemq::commands::ActiveMQMapMessage, 263
 - activemq::util::PrimitiveList, 2047
 - activemq::util::PrimitiveMap, 2057
 - activemq::util::PrimitiveValueNode, 2080
 - cms::MapMessage, 1707
- setShortProperty
 - activemq::commands::ActiveMQMessageTemplate, 306
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1889
 - cms::Message, 1773
- setSize
 - activemq::commands::ProducerAck, 2086
- setSizePrefixDisabled
 - activemq::commands::WireFormatInfo, 2705
 - activemq::wireformat::openwire::OpenWireFormat, 1976
- setSlaveBroker
 - activemq::commands::BrokerInfo, 610
- setSoLinger
 - decaf::net::BufferedSocket, 644
 - decaf::net::Socket, 2374
 - decaf::net::TcpSocket, 2528
- setSoTimeout
 - decaf::net::BufferedSocket, 645
 - decaf::net::Socket, 2374
 - decaf::net::TcpSocket, 2528
- setSource
 - decaf::internal::net::URIType, 2673
- setSourceFile
 - decaf::util::logging::LogRecord, 1646
- setSourceFunction
 - decaf::util::logging::LogRecord, 1646
- setSourceLine
 - decaf::util::logging::LogRecord, 1646
- setStackTrace
 - decaf::lang::Exception, 1271
- setStackTraceElements
 - activemq::commands::BrokerError, 587
- setStackTraceEnabled
 - activemq::commands::WireFormatInfo, 2705
 - activemq::wireformat::openwire::OpenWireFormat, 1976
- setStart
 - activemq::commands::ConsumerControl, 1029
- setStop
 - activemq::commands::ConsumerControl, 1029
- setString
 - activemq::commands::ActiveMQMapMessage, 264
 - activemq::util::PrimitiveList, 2047
 - activemq::util::PrimitiveMap, 2057
 - activemq::util::PrimitiveValueNode, 2080
 - cms::MapMessage, 1707
- setStringProperty
 - activemq::commands::ActiveMQMessageTemplate, 307
 - activemq::wireformat::openwire::utils::MessagePropertyInterceptor, 1890
 - cms::Message, 1774
- setSubscriptionName
 - activemq::commands::RemoveSubscriptionInfo, 2194
 - activemq::commands::SubscriptionInfo, 2492
- setSubscribedDestination
 - activemq::commands::SubscriptionInfo, 2492
- setSubscriptionName
 - activemq::commands::ConsumerInfo, 1065
- setSubscriptionName
 - activemq::commands::JournalTopicAck, 1508
- setSuspend
 - activemq::commands::ConnectionControl, 946
- setSynchronizationRegistered
 - activemq::core::ActiveMQConsumer, 224
- setTargetConsumerId
 - activemq::commands::Message, 1747
- setTcpNoDelay
 - decaf::net::TcpSocket, 2529
- setTcpNoDelayEnabled
 - activemq::commands::WireFormatInfo, 2705
 - activemq::wireformat::openwire::OpenWireFormat, 1977
- setText
 - activemq::commands::ActiveMQTextMessage, 449
 - cms::TextMessage, 2541
- setTightEncodingEnabled
 - activemq::commands::WireFormatInfo, 2705
 - activemq::wireformat::openwire::OpenWireFormat, 1977
- setTime
 - decaf::util::Date, 1179
- setTimeout

- activemq::commands::DestinationInfo, 1195
- activemq::commands::MessagePull, 1894
- activemq::transport::failover::FailoverTransport, 1304
- setTimestamp
 - activemq::commands::Message, 1747
 - decaf::util::logging::LogRecord, 1646
- setTimeToLive
 - activemq::cmsutil::CachedProducer, 780
 - activemq::cmsutil::CmsTemplate, 867
 - activemq::core::ActiveMQProducer, 329
 - cms::MessageProducer, 1881
- setTrackMessages
 - activemq::state::ConnectionStateTracker, 1025
 - activemq::transport::failover::FailoverTransport, 1304
- setTrackTransactions
 - activemq::state::ConnectionStateTracker, 1025
- setTransactionId
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::JournalTransaction, 1539
 - activemq::commands::Message, 1747
 - activemq::commands::MessageAck, 1779
 - activemq::commands::TransactionInfo, 2590
- setTransport
 - activemq::transport::failover::BackupTransport, 500
 - activemq::transport::mock::InternalCommandTransport, 1456
- setTransportListener
 - activemq::transport::failover::FailoverTransport, 1304
 - activemq::transport::IOTransport, 1483
 - activemq::transport::mock::MockTransport, 1915
 - activemq::transport::Transport, 2610
 - activemq::transport::TransportFilter, 2620
- setTreadId
 - decaf::util::logging::LogRecord, 1646
- setType
 - activemq::commands::JournalTransaction, 1539
 - activemq::commands::Message, 1747
 - activemq::commands::TransactionInfo, 2590
- setUri
 - activemq::transport::failover::BackupTransport, 500
- setUsage
 - activemq::util::MemoryUsage, 1733
- setUseAsyncSend
 - activemq::core::ActiveMQConnectionSupport, 212
- setUseExponentialBackOff
 - activemq::transport::failover::FailoverTransport, 1304
- setUseParentHandlers
 - decaf::util::logging::Logger, 1628
- setUserID
 - activemq::commands::Message, 1747
- setUserInfo
 - decaf::internal::net::URIType, 2673
- setUserName
 - activemq::commands::ConnectionInfo, 999
- setUsername
 - activemq::core::ActiveMQConnectionFactory, 202
 - activemq::core::ActiveMQConnectionSupport, 212
- setValid
 - decaf::internal::net::URIType, 2673
- setValue
 - activemq::commands::BrokerId, 592
 - activemq::commands::ConnectionId, 981
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::LocalTransactionId, 1601
 - activemq::commands::ProducerId, 2106
 - activemq::commands::SessionId, 2285
 - activemq::util::PrimitiveValueNode, 2080
 - decaf::util::Map::Entry, 1262
- setVersion
 - activemq::commands::WireFormatInfo, 2705
- activemq::wireformat::openwire::OpenWireFormat, 1977
- activemq::wireformat::stomp::StompWireFormat, 2466
- activemq::wireformat::WireFormat, 2693
- setWasPrepared
 - activemq::commands::JournalTransaction, 1539
- setWindowSize
 - activemq::commands::ProducerInfo, 2123
- setWireFormat
 - activemq::transport::failover::FailoverTransport, 1304
 - activemq::transport::IOTransport, 1483
 - activemq::transport::mock::MockTransport, 1915
 - activemq::transport::Transport, 2610
 - activemq::transport::TransportFilter, 2620

Short
 decaf::lang::Short, 2320
 SHORT_TYPE
 activemq::util::PrimitiveValueNode, 2072
 ShortArrayBuffer
 decaf::internal::nio::ShortArrayBuffer, 2329, 2330
 ShortBuffer
 decaf::nio::ShortBuffer, 2338
 shortValue
 activemq::util::PrimitiveValueNode::PrimitiveValue, 2065
 decaf::lang::Byte, 668
 decaf::lang::Character, 805
 decaf::lang::Double, 1237
 decaf::lang::Float, 1334
 decaf::lang::Integer, 1436
 decaf::lang::Long, 1660
 decaf::lang::Number, 1954
 decaf::lang::Short, 2325
 shutdown
 activemq::state::ConnectionState, 1019
 activemq::state::SessionState, 2317
 activemq::state::TransactionState, 2605
 activemq::threads::CompositeTaskRunner, 907
 activemq::threads::DedicatedTaskRunner, 1181, 1182
 activemq::threads::TaskRunner, 2520
 ShutdownInfo
 activemq::commands::ShutdownInfo, 2348
 ShutdownInfoMarshaller
 activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller, 2355
 activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller, 2351
 activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller, 2359
 shutdownLibrary
 activemq::library::ActiveMQCPP, 226
 shutdownRuntime
 decaf::lang::Runtime, 2256
 shutdownTransport
 activemq::core::ActiveMQConnectionSupport, 212
 signal
 decaf::util::concurrent::locks::Condition, 934
 signalAll
 decaf::util::concurrent::locks::Condition, 935
 SignatureException
 decaf::security::SignatureException, 2362, 2363
 signum
 decaf::lang::Integer, 1436
 decaf::lang::Long, 1660
 decaf::lang::Math, 1725, 1726
 SimpleFormatter
 decaf::util::logging::SimpleFormatter, 2365
 SimpleLogger
 decaf::util::logging::SimpleLogger, 2367
 SIZE
 decaf::lang::Byte, 670
 decaf::lang::Character, 806
 decaf::lang::Double, 1239
 decaf::lang::Float, 1336
 decaf::lang::Integer, 1439
 decaf::lang::Long, 1663
 decaf::lang::Short, 2327
 size
 activemq::commands::ProducerAck, 2087
 activemq::core::MessageDispatchChannel, 1806
 activemq::wireformat::openwire::utils::HexTable, 1387
 decaf::io::ByteArrayOutputStream, 724
 decaf::io::DataOutputStream, 1125
 decaf::util::Collection, 875
 decaf::util::concurrent::ConcurrentStlMap, 928
 decaf::util::Map, 1697
 decaf::util::Properties, 2144
 decaf::util::StlList, 2426
 decaf::util::StlMap, 2436
 decaf::util::StlQueue, 2442
 decaf::util::StlSet, 2449
 decaf::util::StlSortedSet, 2451
 decaf::util::StlStack, 2453
 decaf::util::StlVector, 2455
 decaf::util::StlWeakMap, 2457
 decaf::util::StlWeakSet, 2459
 decaf::util::StlWeakVector, 2461
 decaf::util::StlWeakVector, 2463
 decaf::util::StlWeakVector, 2465
 decaf::util::StlWeakVector, 2467
 decaf::util::StlWeakVector, 2469
 decaf::util::StlWeakVector, 2471
 decaf::util::StlWeakVector, 2473
 decaf::util::StlWeakVector, 2475
 decaf::util::StlWeakVector, 2477
 decaf::util::StlWeakVector, 2479
 decaf::util::StlWeakVector, 2481
 decaf::util::StlWeakVector, 2483
 decaf::util::StlWeakVector, 2485
 decaf::util::StlWeakVector, 2487
 decaf::util::StlWeakVector, 2489
 decaf::util::StlWeakVector, 2491
 decaf::util::StlWeakVector, 2493
 decaf::util::StlWeakVector, 2495
 decaf::util::StlWeakVector, 2497
 decaf::util::StlWeakVector, 2499
 decaf::util::StlWeakVector, 2501
 decaf::util::StlWeakVector, 2503
 decaf::util::StlWeakVector, 2505
 decaf::util::StlWeakVector, 2507
 decaf::util::StlWeakVector, 2509
 decaf::util::StlWeakVector, 2511
 decaf::util::StlWeakVector, 2513
 decaf::util::StlWeakVector, 2515
 decaf::util::StlWeakVector, 2517
 decaf::util::StlWeakVector, 2519
 decaf::util::StlWeakVector, 2521
 decaf::util::StlWeakVector, 2523
 decaf::util::StlWeakVector, 2525
 decaf::util::StlWeakVector, 2527
 decaf::util::StlWeakVector, 2529
 decaf::util::StlWeakVector, 2531
 decaf::util::StlWeakVector, 2533
 decaf::util::StlWeakVector, 2535
 decaf::util::StlWeakVector, 2537
 decaf::util::StlWeakVector, 2539
 decaf::util::StlWeakVector, 2541
 decaf::util::StlWeakVector, 2543
 decaf::util::StlWeakVector, 2545
 decaf::util::StlWeakVector, 2547
 decaf::util::StlWeakVector, 2549
 decaf::util::StlWeakVector, 2551
 decaf::util::StlWeakVector, 2553
 decaf::util::StlWeakVector, 2555
 decaf::util::StlWeakVector, 2557
 decaf::util::StlWeakVector, 2559
 decaf::util::StlWeakVector, 2561
 decaf::util::StlWeakVector, 2563
 decaf::util::StlWeakVector, 2565
 decaf::util::StlWeakVector, 2567
 decaf::util::StlWeakVector, 2569
 decaf::util::StlWeakVector, 2571
 decaf::util::StlWeakVector, 2573
 decaf::util::StlWeakVector, 2575
 decaf::util::StlWeakVector, 2577
 decaf::util::StlWeakVector, 2579
 decaf::util::StlWeakVector, 2581
 decaf::util::StlWeakVector, 2583
 decaf::util::StlWeakVector, 2585
 decaf::util::StlWeakVector, 2587
 decaf::util::StlWeakVector, 2589
 decaf::util::StlWeakVector, 2591
 decaf::util::StlWeakVector, 2593
 decaf::util::StlWeakVector, 2595
 decaf::util::StlWeakVector, 2597
 decaf::util::StlWeakVector, 2599
 decaf::util::StlWeakVector, 2601
 decaf::util::StlWeakVector, 2603
 decaf::util::StlWeakVector, 2605
 decaf::util::StlWeakVector, 2607
 decaf::util::StlWeakVector, 2609
 decaf::util::StlWeakVector, 2611
 decaf::util::StlWeakVector, 2613
 decaf::util::StlWeakVector, 2615
 decaf::util::StlWeakVector, 2617
 decaf::util::StlWeakVector, 2619
 decaf::util::StlWeakVector, 2621
 decaf::util::StlWeakVector, 2623
 decaf::util::StlWeakVector, 2625
 decaf::util::StlWeakVector, 2627
 decaf::util::StlWeakVector, 2629
 decaf::util::StlWeakVector, 2631
 decaf::util::StlWeakVector, 2633
 decaf::util::StlWeakVector, 2635
 decaf::util::StlWeakVector, 2637
 decaf::util::StlWeakVector, 2639
 decaf::util::StlWeakVector, 2641
 decaf::util::StlWeakVector, 2643
 decaf::util::StlWeakVector, 2645
 decaf::util::StlWeakVector, 2647
 decaf::util::StlWeakVector, 2649
 decaf::util::StlWeakVector, 2651
 decaf::util::StlWeakVector, 2653
 decaf::util::StlWeakVector, 2655
 decaf::util::StlWeakVector, 2657
 decaf::util::StlWeakVector, 2659
 decaf::util::StlWeakVector, 2661
 decaf::util::StlWeakVector, 2663
 decaf::util::StlWeakVector, 2665
 decaf::util::StlWeakVector, 2667
 decaf::util::StlWeakVector, 2669
 decaf::util::StlWeakVector, 2671
 decaf::util::StlWeakVector, 2673
 decaf::util::StlWeakVector, 2675
 decaf::util::StlWeakVector, 2677
 decaf::util::StlWeakVector, 2679
 decaf::util::StlWeakVector, 2681
 decaf::util::StlWeakVector, 2683
 decaf::util::StlWeakVector, 2685
 decaf::util::StlWeakVector, 2687
 decaf::util::StlWeakVector, 2689
 decaf::util::StlWeakVector, 2691
 decaf::util::StlWeakVector, 2693
 decaf::util::StlWeakVector, 2695
 decaf::util::StlWeakVector, 2697
 decaf::util::StlWeakVector, 2699
 decaf::util::StlWeakVector, 2701
 decaf::util::StlWeakVector, 2703
 decaf::util::StlWeakVector, 2705
 decaf::util::StlWeakVector, 2707
 decaf::util::StlWeakVector, 2709
 decaf::util::StlWeakVector, 2711
 decaf::util::StlWeakVector, 2713
 decaf::util::StlWeakVector, 2715
 decaf::util::StlWeakVector, 2717
 decaf::util::StlWeakVector, 2719
 decaf::util::StlWeakVector

- decaf::internal::nio::FloatArrayBuffer, 1343
- decaf::internal::nio::IntArrayBuffer, 1414
- decaf::internal::nio::LongArrayBuffer, 1670
- decaf::internal::nio::ShortArrayBuffer, 2334
- decaf::nio::ByteBuffer, 755
- decaf::nio::CharBuffer, 828
- decaf::nio::DoubleBuffer, 1257
- decaf::nio::FloatBuffer, 1353
- decaf::nio::IntBuffer, 1424
- decaf::nio::LongBuffer, 1681
- decaf::nio::ShortBuffer, 2345
- SocketAddress
 - decaf::net::ServerSocket, 2266
 - decaf::net::Socket, 2370
- SocketException
 - decaf::net::SocketException, 2377, 2378
- SocketHandle
 - decaf::net::ServerSocket, 2266
 - decaf::net::Socket, 2370
- SocketInputStream
 - decaf::net::SocketInputStream, 2383
- SocketOutputStream
 - decaf::net::SocketOutputStream, 2389
- SocketTimeoutException
 - decaf::net::SocketTimeoutException, 2393, 2394
- sqrt
 - decaf::lang::Math, 1727
- src/main/activemq/cmsutil/CachedConsumer.h, 2747
- src/main/activemq/cmsutil/CachedProducer.h, 2748
- src/main/activemq/cmsutil/CmsAccessor.h, 2749
- src/main/activemq/cmsutil/CmsDestinationAccessor.h, 2750
- src/main/activemq/cmsutil/CmsTemplate.h, 2751
- src/main/activemq/cmsutil/DestinationResolver.h, 2752
- src/main/activemq/cmsutil/DynamicDestinationResolver.h, 2753
- src/main/activemq/cmsutil/MessageCreator.h, 2754
- src/main/activemq/cmsutil/PooledSession.h, 2755
- src/main/activemq/cmsutil/ProducerCallback.h, 2756
- src/main/activemq/cmsutil/ResourceLifecycleManager.h, 2757
- src/main/activemq/cmsutil/SessionCallback.h, 2758
- src/main/activemq/cmsutil/SessionPool.h, 2759
- src/main/activemq/commands/ActiveMQBlobMessage.h, 2760
- src/main/activemq/commands/ActiveMQBytesMessage.h, 2761
- src/main/activemq/commands/ActiveMQDestination.h, 2762
- src/main/activemq/commands/ActiveMQMapMessage.h, 2763
- src/main/activemq/commands/ActiveMQMessage.h, 2764
- src/main/activemq/commands/ActiveMQMessageTemplate.h, 2765
- src/main/activemq/commands/ActiveMQObjectMessage.h, 2766
- src/main/activemq/commands/ActiveMQQueue.h, 2767
- src/main/activemq/commands/ActiveMQStreamMessage.h, 2768
- src/main/activemq/commands/ActiveMQTempDestination.h, 2769
- src/main/activemq/commands/ActiveMQTempQueue.h, 2770
- src/main/activemq/commands/ActiveMQTempTopic.h, 2771
- src/main/activemq/commands/ActiveMQTextMessage.h, 2772
- src/main/activemq/commands/ActiveMQTopic.h, 2773
- src/main/activemq/commands/BaseCommand.h, 2774
- src/main/activemq/commands/BaseDataStructure.h, 2775
- src/main/activemq/commands/BooleanExpression.h, 2776
- src/main/activemq/commands/BrokerError.h, 2777
- src/main/activemq/commands/BrokerId.h, 2778
- src/main/activemq/commands/BrokerInfo.h, 2779
- src/main/activemq/commands/Command.h, 2780
- src/main/activemq/commands/ConnectionControl.h, 2781
- src/main/activemq/commands/ConnectionError.h, 2782
- src/main/activemq/commands/ConnectionId.h, 2783
- src/main/activemq/commands/ConnectionInfo.h, 2784
- src/main/activemq/commands/ConsumerControl.h, 2785

src/main/activemq/commands/ConsumerId.h,	src/main/activemq/commands/ProducerId.h,
2786	2814
src/main/activemq/commands/ConsumerInfo.h,	src/main/activemq/commands/ProducerInfo.h,
2787	2815
src/main/activemq/commands/ControlCommands.h,	src/main/activemq/commands/RemoveInfo.h,
2788	2816
src/main/activemq/commands/DataArrayResponse.h,	src/main/activemq/commands/RemoveSubscriptionInfo.h,
2789	2817
src/main/activemq/commands/DataResponse.h,	src/main/activemq/commands/ReplayCommand.h,
2790	2818
src/main/activemq/commands/DataStructure.h,	src/main/activemq/commands/Response.h,
2791	2819
src/main/activemq/commands/DestinationInfo.h,	src/main/activemq/commands/SessionId.h,
2792	2820
src/main/activemq/commands/DiscoveryEvent.h,	src/main/activemq/commands/SessionInfo.h,
2793	2821
src/main/activemq/commands/ExceptionResponse.h,	src/main/activemq/commands/ShutdownInfo.h,
2794	2822
src/main/activemq/commands/FlushCommand.h,	src/main/activemq/commands/SubscriptionInfo.h,
2795	2823
src/main/activemq/commands/IntegerResponse.h,	src/main/activemq/commands/TransactionId.h,
2796	2824
src/main/activemq/commands/JournalQueueAck.h,	src/main/activemq/commands/TransactionInfo.h,
2797	2825
src/main/activemq/commands/JournalTopicAck.h,	src/main/activemq/commands/WireFormatInfo.h,
2798	2826
src/main/activemq/commands/JournalTrace.h,	src/main/activemq/commands/XATransactionId.h,
2799	2827
src/main/activemq/commands/JournalTransactionId.h,	src/main/activemq/core/ActiveMQAckHandler.h,
2800	2828
src/main/activemq/commands/KeepAliveInfo.h,	src/main/activemq/core/ActiveMQConnection.h,
2801	2829
src/main/activemq/commands/LastPartialCommand.h,	src/main/activemq/core/ActiveMQConnectionFactory.h,
2802	2830
src/main/activemq/commands/LocalTransactionId.h,	src/main/activemq/core/ActiveMQConnectionMetaData.h,
2803	2831
src/main/activemq/commands/Message.h,	src/main/activemq/core/ActiveMQConnectionSupport.h,
2804	2832
src/main/activemq/commands/MessageAck.h,	src/main/activemq/core/ActiveMQConstants.h,
2806	2833
src/main/activemq/commands/MessageDispatch.h,	src/main/activemq/core/ActiveMQConsumer.h,
2807	2834
src/main/activemq/commands/MessageDispatchNotFinal.h,	src/main/activemq/core/ActiveMQProducer.h,
2808	2835
src/main/activemq/commands/MessageId.h,	src/main/activemq/core/ActiveMQSession.h,
2809	2836
src/main/activemq/commands/MessagePull.h,	src/main/activemq/core/ActiveMQSessionExecutor.h,
2810	2837
src/main/activemq/commands/NetworkBridgeFilter.h,	src/main/activemq/core/ActiveMQTransactionContext.h,
2811	2838
src/main/activemq/commands/PartialCommand.h,	src/main/activemq/core/DispatchData.h,
2812	2839
	src/main/activemq/core/Dispatcher.h,
src/main/activemq/commands/ProducerAck.h,	src/main/activemq/core/MessageDispatchChannel.h,
2813	2841

- src/main/activemq/core/Synchronization.h, 2876
- 2842
- src/main/activemq/exceptions/ActiveMQException.h, 2877
- 2843
- src/main/activemq/exceptions/BrokerException.h, 2878
- 2844
- src/main/activemq/exceptions/ExceptionDefines.h, 2879
- 2845
- src/main/activemq/io/LoggingInputStream.h, 2880
- 2851
- src/main/activemq/io/LoggingOutputStream.h, 2881
- 2852
- src/main/activemq/library/ActiveMQCPP.h, 2882
- 2853
- src/main/activemq/state/CommandVisitor.h, 2883
- 2854
- src/main/activemq/state/CommandVisitorAdapter.h, 2884
- 2855
- src/main/activemq/state/ConnectionState.h, 2885
- 2857
- src/main/activemq/state/ConnectionStateTracker.h, 2886
- 2858
- src/main/activemq/state/ConsumerState.h, 2887
- 2859
- src/main/activemq/state/ProducerState.h, 2888
- 2860
- src/main/activemq/state/SessionState.h, 2861
- src/main/activemq/state/Tracked.h, 2862
- src/main/activemq/state/TransactionState.h, 2863
- src/main/activemq/threads/CompositeTask.h, 2864
- src/main/activemq/threads/CompositeTaskRunner.h, 2865
- src/main/activemq/threads/DedicatedTaskRunner.h, 2866
- src/main/activemq/threads/Task.h, 2867
- src/main/activemq/threads/TaskRunner.h, 2868
- src/main/activemq/transport/AbstractTransportFactory.h, 2869
- src/main/activemq/transport/CompositeTransport.h, 2870
- src/main/activemq/transport/correlator/FutureResponse.h, 2871
- src/main/activemq/transport/correlator/ResponseCorrelator.h, 2872
- src/main/activemq/transport/DefaultTransportListener.h, 2873
- src/main/activemq/transport/failover/BackupTransport.h, 2874
- src/main/activemq/transport/failover/BackupTransportPool.h, 2875
- src/main/activemq/transport/failover/CloseTransportsTask.h, 2876
- src/main/activemq/transport/failover/FailoverTransport.h, 2877
- src/main/activemq/transport/failover/FailoverTransportFactory.h, 2878
- src/main/activemq/transport/failover/FailoverTransportListener.h, 2879
- src/main/activemq/transport/failover/URIPool.h, 2880
- src/main/activemq/transport/IOTransport.h, 2881
- src/main/activemq/transport/logging/LoggingTransport.h, 2882
- src/main/activemq/transport/mock/InternalCommandListener.h, 2883
- src/main/activemq/transport/mock/MockTransport.h, 2884
- src/main/activemq/transport/mock/MockTransportFactory.h, 2885
- src/main/activemq/transport/mock/ResponseBuilder.h, 2886
- src/main/activemq/transport/tcp/TcpTransport.h, 2887
- src/main/activemq/transport/tcp/TcpTransportFactory.h, 2888
- src/main/activemq/transport/Transport.h, 2889
- src/main/activemq/transport/TransportFactory.h, 2890
- src/main/activemq/transport/TransportFilter.h, 2891
- src/main/activemq/transport/TransportListener.h, 2892
- src/main/activemq/transport/TransportRegistry.h, 2893
- src/main/activemq/util/ActiveMQProperties.h, 2894
- src/main/activemq/util/CompositeData.h, 2895
- src/main/activemq/util/Config.h, 2896
- src/main/activemq/util/LongSequenceGenerator.h, 2899
- src/main/activemq/util/MemoryUsage.h, 2900
- src/main/activemq/util/PrimitiveList.h, 2901
- src/main/activemq/util/PrimitiveMap.h, 2902
- src/main/activemq/util/PrimitiveValueConverter.h, 2903
- src/main/activemq/util/PrimitiveValueNode.h, 2904
- src/main/activemq/util/URISupport.h, 2905
- src/main/activemq/util/Usage.h, 2906
- src/main/activemq/wireformat/MarshalAware.h, 2907

src/main/activemq/wireformat/openwire/marshaller/BaseDataStreamMarshaller	2908	src/main/activemq/wireformat/openwire/marshaller/v1/DataArrayFormat	2983
src/main/activemq/wireformat/openwire/marshaller/DataStreamMarshaller	2909	src/main/activemq/wireformat/openwire/marshaller/v1/DataResponse	2986
src/main/activemq/wireformat/openwire/marshaller/PrimitiveTypesMarshaller	2910	src/main/activemq/wireformat/openwire/marshaller/v1/Destination	2989
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQBlobMessageMarshaller	2911	src/main/activemq/wireformat/openwire/marshaller/v1/DiscoveryError	2992
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQBytesMessageMarshaller	2914	src/main/activemq/wireformat/openwire/marshaller/v1/ExceptionResponse	2995
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQDestinationMarshaller	2917	src/main/activemq/wireformat/openwire/marshaller/v1/FlushCommand	2998
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQMapMessageMarshaller	2920	src/main/activemq/wireformat/openwire/marshaller/v1/IntegerResponse	3001
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQMessageMarshaller	2923	src/main/activemq/wireformat/openwire/marshaller/v1/JournalQueue	3004
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQObjectMessageMarshaller	2926	src/main/activemq/wireformat/openwire/marshaller/v1/JournalTopic	3007
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQQueueMessageMarshaller	2929	src/main/activemq/wireformat/openwire/marshaller/v1/JournalTrace	3010
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQStreamMessageMarshaller	2932	src/main/activemq/wireformat/openwire/marshaller/v1/JournalTransaction	3013
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQSyncDestinationMarshaller	2935	src/main/activemq/wireformat/openwire/marshaller/v1/KeepAliveInterval	3016
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQSyncQueueMarshaller	2938	src/main/activemq/wireformat/openwire/marshaller/v1/LastPartialMessage	3019
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQSyncTopicMarshaller	2941	src/main/activemq/wireformat/openwire/marshaller/v1/LocalTransaction	3022
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQTextMessageMarshaller	2944	src/main/activemq/wireformat/openwire/marshaller/v1/MarshallerError	3025
src/main/activemq/wireformat/openwire/marshaller/v1/ActiveMQTopicMarshaller	2947	src/main/activemq/wireformat/openwire/marshaller/v1/MessageAcknowledge	3028
src/main/activemq/wireformat/openwire/marshaller/v1/BaseCommandMarshaller	2950	src/main/activemq/wireformat/openwire/marshaller/v1/MessageDispatch	3031
src/main/activemq/wireformat/openwire/marshaller/v1/BrokerIdMarshaller	2953	src/main/activemq/wireformat/openwire/marshaller/v1/MessageDispatch	3034
src/main/activemq/wireformat/openwire/marshaller/v1/BrokerIdMarshaller	2956	src/main/activemq/wireformat/openwire/marshaller/v1/MessageIdMarshaller	3037
src/main/activemq/wireformat/openwire/marshaller/v1/ConnectiveControlMarshaller	2959	src/main/activemq/wireformat/openwire/marshaller/v1/MessageMarshaller	3040
src/main/activemq/wireformat/openwire/marshaller/v1/ConnectiveErrorMarshaller	2962	src/main/activemq/wireformat/openwire/marshaller/v1/MessagePull	3043
src/main/activemq/wireformat/openwire/marshaller/v1/ConnectiveInfoMarshaller	2965	src/main/activemq/wireformat/openwire/marshaller/v1/NetworkBridge	3046
src/main/activemq/wireformat/openwire/marshaller/v1/ConnectiveInfoMarshaller	2968	src/main/activemq/wireformat/openwire/marshaller/v1/PartialCommand	3049
src/main/activemq/wireformat/openwire/marshaller/v1/ConsumerGroupMarshaller	2971	src/main/activemq/wireformat/openwire/marshaller/v1/ProducerAcknowledge	3052
src/main/activemq/wireformat/openwire/marshaller/v1/ConsumerIdMarshaller	2974	src/main/activemq/wireformat/openwire/marshaller/v1/ProducerIdMarshaller	3055
src/main/activemq/wireformat/openwire/marshaller/v1/ConsumerInfoMarshaller	2977	src/main/activemq/wireformat/openwire/marshaller/v1/ProducerInfo	3058
src/main/activemq/wireformat/openwire/marshaller/v1/CommandCommandMarshaller	2980	src/main/activemq/wireformat/openwire/marshaller/v1/RemoveInfo	3061

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/Connection
3064 2960

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/Connection
3067 2963

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/Connection
3070 2966

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/Connection
3073 2969

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/ConsumerC
3076 2972

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/ConsumerC
3079 2975

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/ConsumerC
3082 2978

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/ControlCom
3085 2981

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/DataArrayF
3088 2984

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/DataRespon
3091 2987

src/main/activemq/wireformat/openwire/marshaller/v1/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/Destination
3094 2990

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/DiscoveryE
2912 2993

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/ExceptionR
2915 2996

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/FlushComm
2918 2999

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/IntegerRespon
2921 3002

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/JournalQue
2924 3005

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/JournalTop
2927 3008

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/JournalTrac
2930 3011

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/JournalTran
2933 3014

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/KeepAliveIn
2936 3017

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/LastPartial
2939 3020

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/LocalTrans
2942 3023

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/MarshallerF
2945 3026

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/MessageAck
2948 3029

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/MessageDis
2951 3032

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/MessageDis
2954 3035

src/main/activemq/wireformat/openwire/marshaller/v2/BeanSubscriptionInfoMarshaller/openwire/marshaller/v2/MessageIdM
2957 3038

src/main/activemq/wireformat/openwire/marshals/v2/MinimalActiveMQWireFormat/openwire/marshal/v3/ActiveMQT	2937
3041	
src/main/activemq/wireformat/openwire/marshals/v2/MinimalActiveMQWireFormat/openwire/marshal/v3/ActiveMQT	2940
3044	
src/main/activemq/wireformat/openwire/marshals/v2/NetworkBridgeFilterWireFormat/openwire/marshal/v3/ActiveMQT	2943
3047	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2946
3050	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2949
3053	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2952
3056	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2955
3059	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2958
3062	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2961
3065	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2964
3068	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2967
3071	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2970
3074	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2973
3077	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2976
3080	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2979
3083	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2982
3086	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2985
3089	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2988
3092	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2991
3095	
src/main/activemq/wireformat/openwire/marshals/v2/PartialCommandWireFormat/openwire/marshal/v3/ActiveMQT	2994
2913	
src/main/activemq/wireformat/openwire/marshals/v3/MinimalMQByWireFormat/openwire/marshal/v3/ExceptionR	2997
2916	
src/main/activemq/wireformat/openwire/marshals/v3/MinimalMQByWireFormat/openwire/marshal/v3/ExceptionR	3000
2919	
src/main/activemq/wireformat/openwire/marshals/v3/MinimalMQByWireFormat/openwire/marshal/v3/ExceptionR	3003
2922	
src/main/activemq/wireformat/openwire/marshals/v3/MinimalMQByWireFormat/openwire/marshal/v3/ExceptionR	3006
2925	
src/main/activemq/wireformat/openwire/marshals/v3/MinimalMQByWireFormat/openwire/marshal/v3/ExceptionR	3009
2928	
src/main/activemq/wireformat/openwire/marshals/v3/MinimalMQByWireFormat/openwire/marshal/v3/ExceptionR	3012
2931	
src/main/activemq/wireformat/openwire/marshals/v3/MinimalMQByWireFormat/openwire/marshal/v3/ExceptionR	3015
2934	

- src/main/activemq/wireformat/openwire/marshaller/v3/KeyActiveInfoMarshaller.h, 3018
- src/main/activemq/wireformat/openwire/marshaller/v3/KeyActiveInfoMarshaller.h, 3097
- src/main/activemq/wireformat/openwire/marshaller/v3/LatestPartialCommandMarshaller.h, 3021
- src/main/activemq/wireformat/openwire/marshaller/v3/LatestPartialCommandMarshaller.h, 3098
- src/main/activemq/wireformat/openwire/marshaller/v3/LocalTransactionInfoMarshaller.h, 3024
- src/main/activemq/wireformat/openwire/marshaller/v3/LocalTransactionInfoMarshaller.h, 3099
- src/main/activemq/wireformat/openwire/marshaller/v3/MessageHeaderFactory.h, 3027
- src/main/activemq/wireformat/openwire/marshaller/v3/MessageHeaderFactory.h, 3100
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentActiveMarshaller.h, 3030
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentActiveMarshaller.h, 3101
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentDispatchMarshaller.h, 3033
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentDispatchMarshaller.h, 3102
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentDispatchNotificationMarshaller.h, 3036
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentDispatchNotificationMarshaller.h, 3103
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentMarshaller.h, 3039
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentMarshaller.h, 3104
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentMarshaller.h, 3042
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentMarshaller.h, 3105
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentPushMarshaller.h, 3045
- src/main/activemq/wireformat/openwire/marshaller/v3/MinisAgentPushMarshaller.h, 3106
- src/main/activemq/wireformat/openwire/marshaller/v3/NonBlockingBridgeFilterMarshaller.h, 3048
- src/main/activemq/wireformat/openwire/marshaller/v3/NonBlockingBridgeFilterMarshaller.h, 3107
- src/main/activemq/wireformat/openwire/marshaller/v3/PartialCommandMarshaller.h, 3051
- src/main/activemq/wireformat/openwire/marshaller/v3/PartialCommandMarshaller.h, 3108
- src/main/activemq/wireformat/openwire/marshaller/v3/ProductiveActiveMarshaller.h, 3054
- src/main/activemq/wireformat/openwire/marshaller/v3/ProductiveActiveMarshaller.h, 3109
- src/main/activemq/wireformat/openwire/marshaller/v3/ProductiveInfoMarshaller.h, 3057
- src/main/activemq/wireformat/openwire/marshaller/v3/ProductiveInfoMarshaller.h, 3110
- src/main/activemq/wireformat/openwire/marshaller/v3/ProductiveInfoMarshaller.h, 3060
- src/main/activemq/wireformat/openwire/marshaller/v3/ProductiveInfoMarshaller.h, 3111
- src/main/activemq/wireformat/openwire/marshaller/v3/RemoteActiveInfoMarshaller.h, 3063
- src/main/activemq/wireformat/openwire/marshaller/v3/RemoteActiveInfoMarshaller.h, 3112
- src/main/activemq/wireformat/openwire/marshaller/v3/RemoteSubscriptionInfoMarshaller.h, 3066
- src/main/activemq/wireformat/openwire/marshaller/v3/RemoteSubscriptionInfoMarshaller.h, 3113
- src/main/activemq/wireformat/openwire/marshaller/v3/ReplyCs/BytesMessage.h, 3069
- src/main/activemq/wireformat/openwire/marshaller/v3/ReplyCs/BytesMessage.h, 3114
- src/main/activemq/wireformat/openwire/marshaller/v3/ResponseCMSException.h, 3072
- src/main/activemq/wireformat/openwire/marshaller/v3/ResponseCMSException.h, 3117
- src/main/activemq/wireformat/openwire/marshaller/v3/SessionCMSSecurityException.h, 3075
- src/main/activemq/wireformat/openwire/marshaller/v3/SessionCMSSecurityException.h, 3118
- src/main/activemq/wireformat/openwire/marshaller/v3/SessionInfoMarshaller.h, 3078
- src/main/activemq/wireformat/openwire/marshaller/v3/SessionInfoMarshaller.h, 3120
- src/main/activemq/wireformat/openwire/marshaller/v3/ShutdownConversionNotSupported.h, 3081
- src/main/activemq/wireformat/openwire/marshaller/v3/ShutdownConversionNotSupported.h, 3122
- src/main/activemq/wireformat/openwire/marshaller/v3/SubscriptionDefinitionMarshaller.h, 3084
- src/main/activemq/wireformat/openwire/marshaller/v3/SubscriptionDefinitionMarshaller.h, 3124
- src/main/activemq/wireformat/openwire/marshaller/v3/Transactions/IllegalStateException.h, 3087
- src/main/activemq/wireformat/openwire/marshaller/v3/Transactions/IllegalStateException.h, 3126
- src/main/activemq/wireformat/openwire/marshaller/v3/TransactionInfoMarshaller.h, 3090
- src/main/activemq/wireformat/openwire/marshaller/v3/TransactionInfoMarshaller.h, 3128
- src/main/activemq/wireformat/openwire/marshaller/v3/WireFormatInfoMarshaller.h, 3093
- src/main/activemq/wireformat/openwire/marshaller/v3/WireFormatInfoMarshaller.h, 3129
- src/main/activemq/wireformat/openwire/marshaller/v3/XML/TransMapMessage.h, 3096
- src/main/activemq/wireformat/openwire/marshaller/v3/XML/TransMapMessage.h, 3131
- src/main/cms/Closeable.h, 3115
- src/main/cms/CMSProperties.h, 3118
- src/main/cms/Config.h, 2897
- src/main/cms/ConnectionFactory.h, 3121
- src/main/cms/DeliveryMode.h, 3123
- src/main/cms/ExceptionListener.h, 3125
- src/main/cms/InvalidClientIdException.h, 3130
- src/main/cms/InvalidDestinationException.h, 3128
- src/main/cms/InvalidSelectorException.h, 3130
- src/main/cms/Message.h, 2805

- src/main/cms/MessageConsumer.h, 3132
- src/main/cms/MessageEOFException.h, 3133
- src/main/cms/MessageFormatException.h, 3134
- src/main/cms/MessageListener.h, 3135
- src/main/cms/MessageNotReadableException.h, 3136
- src/main/cms/MessageNotWritableException.h, 3137
- src/main/cms/MessageProducer.h, 3138
- src/main/cms/ObjectMessage.h, 3139
- src/main/cms/Queue.h, 3140
- src/main/cms/QueueBrowser.h, 3142
- src/main/cms/Session.h, 3143
- src/main/cms/Startable.h, 3144
- src/main/cms/Stoppable.h, 3145
- src/main/cms/StreamMessage.h, 3146
- src/main/cms/TemporaryQueue.h, 3147
- src/main/cms/TemporaryTopic.h, 3148
- src/main/cms/TextMessage.h, 3149
- src/main/cms/Topic.h, 3150
- src/main/decaf/internal/AprPool.h, 3151
- src/main/decaf/internal/DecafRuntime.h, 3152
- src/main/decaf/internal/io/StandardErrorOutputStream.h, 3153
- src/main/decaf/internal/io/StandardInputStream.h, 3154
- src/main/decaf/internal/io/StandardOutputStream.h, 3155
- src/main/decaf/internal/net/URIEncoderDecoder.h, 3156
- src/main/decaf/internal/net/URIHelper.h, 3157
- src/main/decaf/internal/net/URIType.h, 3158
- src/main/decaf/internal/nio/BufferFactory.h, 3159
- src/main/decaf/internal/nio/ByteBuffer.h, 3160
- src/main/decaf/internal/nio/ByteBufferPerspective.h, 3161
- src/main/decaf/internal/nio/CharArrayBuffer.h, 3162
- src/main/decaf/internal/nio/DoubleArrayBuffer.h, 3163
- src/main/decaf/internal/nio/FloatArrayBuffer.h, 3164
- src/main/decaf/internal/nio/IntArrayBuffer.h, 3165
- src/main/decaf/internal/nio/LongArrayBuffer.h, 3166
- src/main/decaf/internal/nio/ShortArrayBuffer.h, 3167
- src/main/decaf/internal/util/ByteArrayAdapter.h, 3168
- src/main/decaf/internal/util/HexStringParser.h, 3169
- src/main/decaf/io/BlockingByteArrayInputStream.h, 3170
- src/main/decaf/io/BufferedInputStream.h, 3171
- src/main/decaf/io/BufferedOutputStream.h, 3172
- src/main/decaf/io/ByteArrayInputStream.h, 3173
- src/main/decaf/io/ByteArrayOutputStream.h, 3174
- src/main/decaf/io/Closeable.h, 3116
- src/main/decaf/io/DataInputStream.h, 3175
- src/main/decaf/io/DataOutputStream.h, 3176
- src/main/decaf/io/EOFException.h, 3177
- src/main/decaf/io/FilterInputStream.h, 3178
- src/main/decaf/io/FilterOutputStream.h, 3179
- src/main/decaf/io/InputStream.h, 3180
- src/main/decaf/io/InterruptedIOException.h, 3181
- src/main/decaf/io/IOException.h, 3182
- src/main/decaf/io/OutputStream.h, 3183
- src/main/decaf/io/Reader.h, 3184
- src/main/decaf/io/UTFDataFormatException.h, 3185
- src/main/decaf/io/Writer.h, 3186
- src/main/decaf/lang/Appendable.h, 3187
- src/main/decaf/lang/Boolean.h, 3188
- src/main/decaf/lang/Byte.h, 3189
- src/main/decaf/lang/Character.h, 3190
- src/main/decaf/lang/CharSequence.h, 3191
- src/main/decaf/lang/Comparable.h, 3192
- src/main/decaf/lang/Double.h, 3193
- src/main/decaf/lang/Exception.h, 3194
- src/main/decaf/lang/exceptions/ClassCastException.h, 3195
- src/main/decaf/lang/exceptions/ExceptionDefines.h, 2848
- src/main/decaf/lang/exceptions/IllegalArgumentException.h, 3196
- src/main/decaf/lang/exceptions/IllegalMonitorStateException.h, 3197
- src/main/decaf/lang/exceptions/IllegalStateException.h, 3127
- src/main/decaf/lang/exceptions/IndexOutOfBoundsException.h, 3198
- src/main/decaf/lang/exceptions/InterruptedException.h, 3199
- src/main/decaf/lang/exceptions/InvalidStateException.h, 3200
- src/main/decaf/lang/exceptions/NoSuchElementException.h, 3201

- src/main/decaf/lang/exceptions/NullPointerException.h, 3202
- src/main/decaf/lang/exceptions/NumberFormatException.h, 3203
- src/main/decaf/lang/exceptions/RuntimeException.h, 3204
- src/main/decaf/lang/exceptions/UnsupportedOperationException.h, 3205
- src/main/decaf/lang/Float.h, 3206
- src/main/decaf/lang/Integer.h, 3207
- src/main/decaf/lang/Iterable.h, 3208
- src/main/decaf/lang/Long.h, 3209
- src/main/decaf/lang/Math.h, 3210
- src/main/decaf/lang/Number.h, 3211
- src/main/decaf/lang/Pointer.h, 3212
- src/main/decaf/lang/Runnable.h, 3213
- src/main/decaf/lang/Runtime.h, 3214
- src/main/decaf/lang/Short.h, 3215
- src/main/decaf/lang/System.h, 3216
- src/main/decaf/lang/Thread.h, 3217
- src/main/decaf/lang/Throwable.h, 3218
- src/main/decaf/net/BindException.h, 3219
- src/main/decaf/net/BufferedSocket.h, 3220
- src/main/decaf/net/ConnectException.h, 3221
- src/main/decaf/net/HttpRetryException.h, 3222
- src/main/decaf/net/MalformedURLException.h, 3223
- src/main/decaf/net/NoRouteToHostException.h, 3224
- src/main/decaf/net/PortUnreachableException.h, 3225
- src/main/decaf/net/ProtocolException.h, 3226
- src/main/decaf/net/ServerSocket.h, 3227
- src/main/decaf/net/Socket.h, 3228
- src/main/decaf/net/SocketError.h, 3229
- src/main/decaf/net/SocketException.h, 3230
- src/main/decaf/net/SocketFactory.h, 3231
- src/main/decaf/net/SocketInputStream.h, 3232
- src/main/decaf/net/SocketOutputStream.h, 3233
- src/main/decaf/net/SocketTimeoutException.h, 3234
- src/main/decaf/net/TcpSocket.h, 3235
- src/main/decaf/net/UnknownHostException.h, 3236
- src/main/decaf/net/UnknownServiceException.h, 3237
- src/main/decaf/net/URI.h, 3238
- src/main/decaf/net/URISyntaxException.h, 3239
- src/main/decaf/net/URL.h, 3240
- src/main/decaf/net/URLDecoder.h, 3241
- src/main/decaf/net/URLEncoder.h, 3242
- src/main/decaf/nio/Buffer.h, 3243
- src/main/decaf/nio/BufferOverflowException.h, 3244
- src/main/decaf/nio/BufferUnderflowException.h, 3245
- src/main/decaf/nio/ByteBuffer.h, 3246
- src/main/decaf/nio/CharBuffer.h, 3247
- src/main/decaf/nio/DoubleBuffer.h, 3248
- src/main/decaf/nio/FloatBuffer.h, 3249
- src/main/decaf/nio/IntBuffer.h, 3250
- src/main/decaf/nio/InvalidMarkException.h, 3251
- src/main/decaf/nio/LongBuffer.h, 3252
- src/main/decaf/nio/ReadOnlyBufferException.h, 3253
- src/main/decaf/nio/ShortBuffer.h, 3254
- src/main/decaf/security/auth/x500/X500Principal.h, 3255
- src/main/decaf/security/cert/Certificate.h, 3256
- src/main/decaf/security/cert/CertificateEncodingException.h, 3257
- src/main/decaf/security/cert/CertificateException.h, 3258
- src/main/decaf/security/cert/CertificateExpiredException.h, 3259
- src/main/decaf/security/cert/CertificateNotYetValidException.h, 3260
- src/main/decaf/security/cert/CertificateParsingException.h, 3261
- src/main/decaf/security/cert/X509Certificate.h, 3262
- src/main/decaf/security/GeneralSecurityException.h, 3263
- src/main/decaf/security/InvalidKeyException.h, 3264
- src/main/decaf/security/Key.h, 3265
- src/main/decaf/security/KeyException.h, 3266
- src/main/decaf/security/NoSuchAlgorithmException.h, 3267
- src/main/decaf/security/NoSuchProviderException.h, 3268
- src/main/decaf/security/Principal.h, 3269
- src/main/decaf/security/PublicKey.h, 3270
- src/main/decaf/security/SignatureException.h, 3271
- src/main/decaf/security_provider/SecurityProvider.h, 3272
- src/main/decaf/security_provider/SecurityProviderMap.h, 3273
- src/main/decaf/security_provider/SecurityProviderRegistrar.h,

- 3274
- src/main/decaf/security_ - 3305
- provider/unix/openssl/OpenSSLX509Principal.h, 3306
- 3275
- src/main/decaf/security_ - 3307
- provider/unix/openssl/OpenSSLX509Certificate.h, 3308
- 3276
- src/main/decaf/util/AbstractCollection.h, 3277
- src/main/decaf/util/AbstractList.h, 3278
- src/main/decaf/util/AbstractMap.h, 3279
- src/main/decaf/util/AbstractQueue.h, 3280
- src/main/decaf/util/AbstractSequentialList.h, 3281
- src/main/decaf/util/AbstractSet.h, 3282
- src/main/decaf/util/Collection.h, 3283
- src/main/decaf/util/Comparator.h, 3284
- src/main/decaf/util/concurrent/atomic/AtomicBoolean.h, 3285
- src/main/decaf/util/concurrent/atomic/AtomicInteger.h, 3286
- src/main/decaf/util/concurrent/atomic/AtomicReference.h, 3287
- src/main/decaf/util/concurrent/BrokenBarrierException.h, 3288
- src/main/decaf/util/concurrent/Callable.h, 3289
- src/main/decaf/util/concurrent/CancellationException.h, 3290
- src/main/decaf/util/concurrent/Concurrent.h, 3291
- src/main/decaf/util/concurrent/ConcurrentMap.h, 3292
- src/main/decaf/util/concurrent/ConcurrentStlMap.h, 3293
- src/main/decaf/util/concurrent/CountDownLatch.h, 3294
- src/main/decaf/util/concurrent/Delayed.h, 3295
- src/main/decaf/util/concurrent/ExecutionException.h, 3296
- src/main/decaf/util/concurrent/Executor.h, 3297
- src/main/decaf/util/concurrent/Future.h, 3298
- src/main/decaf/util/concurrent/Lock.h, 3299
- src/main/decaf/util/concurrent/locks/Condition.h, 3301
- src/main/decaf/util/concurrent/locks/Lock.h, 3300
- src/main/decaf/util/concurrent/locks/ReadWriteLock.h, 3302
- src/main/decaf/util/concurrent/Mutex.h, 3303
- src/main/decaf/util/concurrent/PooledThread.h, 3304
- src/main/decaf/util/concurrent/PooledThreadListener.h, 3305
- src/main/decaf/util/concurrent/RejectedExecutionException.h, 3306
- src/main/decaf/util/concurrent/Synchronizable.h, 3307
- src/main/decaf/util/concurrent/TaskListener.h, 3308
- src/main/decaf/util/concurrent/ThreadFactory.h, 3309
- src/main/decaf/util/concurrent/ThreadPool.h, 3310
- src/main/decaf/util/concurrent/TimeoutException.h, 3311
- src/main/decaf/util/concurrent/TimeUnit.h, 3312
- src/main/decaf/util/Config.h, 2898
- src/main/decaf/util/Date.h, 3313
- src/main/decaf/util/Iterator.h, 3314
- src/main/decaf/util/List.h, 3315
- src/main/decaf/util/ListIterator.h, 3316
- src/main/decaf/util/logging/ConsoleHandler.h, 3317
- src/main/decaf/util/logging/Filter.h, 3318
- src/main/decaf/util/logging/Formatter.h, 3319
- src/main/decaf/util/logging/Handler.h, 3320
- src/main/decaf/util/logging/Logger.h, 3321
- src/main/decaf/util/logging/LoggerCommon.h, 3322
- src/main/decaf/util/logging/LoggerDefines.h, 3323
- src/main/decaf/util/logging/LoggerHierarchy.h, 3325
- src/main/decaf/util/logging/LogManager.h, 3326
- src/main/decaf/util/logging/LogRecord.h, 3327
- src/main/decaf/util/logging/LogWriter.h, 3328
- src/main/decaf/util/logging/MarkBlockLogger.h, 3329
- src/main/decaf/util/logging/PropertiesChangeListener.h, 3330
- src/main/decaf/util/logging/SimpleFormatter.h, 3331
- src/main/decaf/util/logging/SimpleLogger.h, 3332
- src/main/decaf/util/logging/StreamHandler.h, 3333
- src/main/decaf/util/Map.h, 3334
- src/main/decaf/util/Properties.h, 3335
- src/main/decaf/util/Queue.h, 3141
- src/main/decaf/util/Random.h, 3336
- src/main/decaf/util/Set.h, 3337
- src/main/decaf/util/StlList.h, 3338

- src/main/decaf/util/StlMap.h, 3339
- src/main/decaf/util/StlQueue.h, 3340
- src/main/decaf/util/StlSet.h, 3341
- src/main/decaf/util/StringTokenizer.h, 3342
- src/main/decaf/util/UUID.h, 3343
- stackTrace
 - decaf::lang::Exception, 1272
- StandardErrorOutputStream
 - decaf::internal::io::StandardErrorOutputStream, 2398
- StandardInputStream
 - decaf::internal::io::StandardInputStream, 2402
- StandardOutputStream
 - decaf::internal::io::StandardOutputStream, 2408
- start
 - activemq::commands::ConsumerControl, 1030
 - activemq::core::ActiveMQConnection, 196
 - activemq::core::ActiveMQConsumer, 224
 - activemq::core::ActiveMQSession, 365
 - activemq::core::ActiveMQSessionExecutor, 369
 - activemq::core::MessageDispatchChannel, 1807
 - activemq::transport::correlator::ResponseCorrelator, 2238
 - activemq::transport::failover::FailoverTransport, 1304
 - activemq::transport::IOTransport, 1483
 - activemq::transport::mock::MockTransport, 1915
 - activemq::transport::TransportFilter, 2620
 - activemq::wireformat::openwire::OpenWireFormat, 1985
 - cms::Startable, 2411
 - decaf::lang::Thread, 2543
- startupTransport
 - activemq::core::ActiveMQConnectionSupport, 213
- staticCast
 - decaf::lang::Pointer, 2014
- StaticInitializer
 - activemq::core::ActiveMQConstants::StaticInitializer, 2413
- std, 120
- std::binary_function, 560
- std::less< decaf::lang::Pointer< T > >, 1588
 - operator(), 1588
- StlList
 - decaf::util::StlList, 2418, 2419
- StlMap
 - decaf::util::StlMap, 2430
- StlQueue
 - decaf::util::StlQueue, 2440
- StlSet
 - decaf::util::StlSet, 2446
- StompFrame
 - activemq::wireformat::stomp::StompFrame, 2455
- StompHelper
 - activemq::wireformat::stomp::StompHelper, 2460
- StompWireFormat
 - activemq::wireformat::stomp::StompWireFormat, 2465
- StompWireFormatFactory
 - activemq::wireformat::stomp::StompWireFormatFactory, 2468
- stop
 - activemq::commands::ConsumerControl, 1030
 - activemq::core::ActiveMQConnection, 197
 - activemq::core::ActiveMQConsumer, 224
 - activemq::core::ActiveMQSession, 365
 - activemq::core::ActiveMQSessionExecutor, 369
 - activemq::core::MessageDispatchChannel, 1807
 - cms::Stoppable, 2469
 - decaf::util::concurrent::PooledThread, 2031
 - decaf::util::Properties, 2144, 2145
- StreamHandler
 - decaf::util::logging::StreamHandler, 2471
- STRING_TYPE
 - activemq::util::PrimitiveValueNode, 2072
- StringTokenizer
 - decaf::util::StringTokenizer, 2486
- stringValue
 - activemq::util::PrimitiveValueNode::PrimitiveValue, 2065
- unsubscribe
 - activemq::commands::RemoveSubscriptionInfo, 2195
 - activemq::commands::SubscriptionInfo, 2493
- SUBSCRIBE
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- subscribedDestination
 - activemq::commands::SubscriptionInfo, 2493
- SubscriptionInfo
 - activemq::commands::SubscriptionInfo, 2490
- SubscriptionInfoMarshaller

- activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller, 2495
- activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller, 2503
- activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller, 2499
- subscriptionName
 - activemq::commands::ConsumerInfo, 1067
- subscrptionName
 - activemq::commands::JournalTopicAck, 1509
- subSequence
 - decaf::internal::nio::CharArrayBuffer, 814
 - decaf::lang::CharSequence, 832
 - decaf::nio::CharBuffer, 828
- suspend
 - activemq::commands::ConnectionControl, 947
- swap
 - decaf::lang::AtomicRefCounter, 494
 - decaf::lang::Pointer, 2014
- synchronized
 - Concurrent.h, 3291
- syncRequest
 - activemq::core::ActiveMQConnection, 197
 - activemq::core::ActiveMQSession, 365
- System
 - decaf::lang::System, 2515
- takeRef
 - decaf::internal::nio::ByteArrayPerspective, 731
- takeSession
 - activemq::cmsutil::SessionPool, 2315
- targetConsumerId
 - activemq::commands::Message, 1749
- Task
 - decaf::util::concurrent::ThreadPool, 2549
- TcpSocket
 - decaf::net::TcpSocket, 2523
- TcpTransport
 - activemq::transport::tcp::TcpTransport, 2530, 2531
- TEMP_POSTFIX
 - activemq::commands::ActiveMQDestination, 237
- TEMP_PREFIX
 - activemq::commands::ActiveMQDestination, 237
- TEMP_QUEUE_QUALIFED_PREFIX
 - activemq::commands::ActiveMQDestination, 237
- TEMP_TOPIC_QUALIFED_PREFIX
 - activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller, 237
 - activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller, 1188
 - activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller, 1188
- TEMPQUEUE_PREFIX
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- TEMPTOPIC_PREFIX
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- TEXT
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- Thread
 - decaf::lang::Thread, 2542
- ThreadPool
 - decaf::util::concurrent::ThreadPool, 2549
- Throwable
 - decaf::lang::Throwable, 2554
- Throwing
 - decaf::util::logging, 119
- tightMarshal
 - activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 544
 - activemq::wireformat::openwire::marshal::DataStreamMarshaller, 1160
 - activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMarshaller, 155
 - activemq::wireformat::openwire::marshal::v1::ActiveMQBytesMarshaller, 182
 - activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller, 244
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMapMarshaller, 271
 - activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller, 286
 - activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMarshaller, 317
 - activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMarshaller, 345
 - activemq::wireformat::openwire::marshal::v1::ActiveMQStreamMarshaller, 391
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller, 407
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller, 424
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTempDestinationMarshaller, 441
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTextMarshaller, 457
 - activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller, 473

activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller; openwire::marshal::v1::MessageDispatcher
 522 1833
 activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller; openwire::marshal::v1::MessageIdMarshaller
 599 1848
 activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller; openwire::marshal::v1::MessageMarshaller
 619 1871
 activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller; openwire::marshal::v1::MessagePullMarshaller
 954 1906
 activemq::wireformat::openwire::marshal::v1::ConnectionErrorMarshaller; openwire::marshal::v1::NetworkBridgeFilter
 970 1935
 activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller; openwire::marshal::v1::PartialCommandMarshaller
 989 2007
 activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller; openwire::marshal::v1::ProducerAckMarshaller
 1007 2094
 activemq::wireformat::openwire::marshal::v1::ConsumerGroupMarshaller; openwire::marshal::v1::ProducerIdMarshaller
 1037 2118
 activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller; openwire::marshal::v1::ProducerInfoMarshaller
 1054 2135
 activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller; openwire::marshal::v1::RemoveInfoMarshaller
 1074 2185
 activemq::wireformat::openwire::marshal::v1::ContactGroupMarshaller; openwire::marshal::v1::RemoveSubscriptionMarshaller
 1087 2206
 activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller; openwire::marshal::v1::ReplayCommandMarshaller
 1108 2222
 activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller; openwire::marshal::v1::ResponseMarshaller
 1139 2251
 activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller; openwire::marshal::v1::SessionIdMarshaller
 1203 2288
 activemq::wireformat::openwire::marshal::v1::DiscoveryRequestMarshaller; openwire::marshal::v1::SessionInfoMarshaller
 1221 2304
 activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller; openwire::marshal::v1::ShutdownInfoMarshaller
 1283 2356
 activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller; openwire::marshal::v1::SubscriptionInfoMarshaller
 1360 2496
 activemq::wireformat::openwire::marshal::v1::IntegrationResponseMarshaller; openwire::marshal::v1::TransactionIdMarshaller
 1449 2577
 activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller; openwire::marshal::v1::TransactionInfoMarshaller
 1499 2602
 activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller; openwire::marshal::v1::WireFormatInfoMarshaller
 1520 2717
 activemq::wireformat::openwire::marshal::v1::JournalTransactionInfoMarshaller; openwire::marshal::v1::XATransactionInfoMarshaller
 1535 2736
 activemq::wireformat::openwire::marshal::v1::JournalTransactionInfoMarshaller; openwire::marshal::v2::ActiveMQBlobMarshaller
 1551 159
 activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller; openwire::marshal::v2::ActiveMQBytesMarshaller
 1566 186
 activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller; openwire::marshal::v2::ActiveMQDestinationMarshaller
 1582 248
 activemq::wireformat::openwire::marshal::v1::LocalTransactionIdMarshaller; openwire::marshal::v2::ActiveMQMapMarshaller
 1612 275
 activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller; openwire::marshal::v2::ActiveMQMessageMarshaller
 1791 290
 activemq::wireformat::openwire::marshal::v1::MessageDispatcherMarshaller; openwire::marshal::v2::ActiveMQObjectMarshaller
 1819 321

activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller	openwire::marshal::v2::JournalTraceMa
349	1527
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMessageMarshaller	;marshal::v2::JournalTransact
395	1543
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueDeflationMarshaller	;marshal::v2::KeepAliveInfoM
411	1562
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueFormatMarshaller	openwire::marshal::v2::LastPartialComr
428	1586
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueTopicMarshaller	openwire::marshal::v2::LocalTransaction
445	1604
activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller	openwire::marshal::v2::MessageAckMar
461	1783
activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller	openwire::marshal::v2::MessageDispat ch
477	1811
activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller	openwire::marshal::v2::MessageDispat ch
529	1829
activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller	openwire::marshal::v2::MessageIdMarsh
603	1856
activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller	openwire::marshal::v2::MessageMarshal
623	1861
activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller	openwire::marshal::v2::MessagePullMar
958	1898
activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller	openwire::marshal::v2::NetworkBridgeF
974	1931
activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller	openwire::marshal::v2::PartialCommand
993	1999
activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller	openwire::marshal::v2::ProducerAckMa
1011	2098
activemq::wireformat::openwire::marshal::v2::ConsumerGroupMarshaller	openwire::marshal::v2::ProducerIdMars
1041	2110
activemq::wireformat::openwire::marshal::v2::ConsumerIdMarshaller	openwire::marshal::v2::ProducerInfoMa
1058	2127
activemq::wireformat::openwire::marshal::v2::ConsumerInfoMarshaller	openwire::marshal::v2::RemoveInfoMars
1078	2181
activemq::wireformat::openwire::marshal::v2::ContactCommandMarshaller	openwire::marshal::v2::RemoveSubscrip
1095	2198
activemq::wireformat::openwire::marshal::v2::DataActiveResponseMarshaller	openwire::marshal::v2::ReplayCommand
1112	2214
activemq::wireformat::openwire::marshal::v2::DataResponseMarshaller	openwire::marshal::v2::ResponseMarshal
1143	2241
activemq::wireformat::openwire::marshal::v2::DestinationInfoMarshaller	openwire::marshal::v2::SessionIdMarshal
1207	2296
activemq::wireformat::openwire::marshal::v2::DiscoveryRequestMarshaller	openwire::marshal::v2::SessionInfoMars
1225	2308
activemq::wireformat::openwire::marshal::v2::ExceptionResponseMarshaller	openwire::marshal::v2::ShutdownInfoMa
1287	2352
activemq::wireformat::openwire::marshal::v2::FlushCommandMarshaller	openwire::marshal::v2::SubscriptionInfo
1368	2504
activemq::wireformat::openwire::marshal::v2::IntegrationResponseMarshaller	openwire::marshal::v2::TransactionIdMa
1445	2585
activemq::wireformat::openwire::marshal::v2::JournalQueueAckMarshaller	openwire::marshal::v2::TransactionInfo
1495	2594
activemq::wireformat::openwire::marshal::v2::JournalTopicAckMarshaller	openwire::marshal::v2::WireFormatInfo
1512	2713

activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller	openwire::marshal::v3::DestinationInfoMarshaller
2744	1199
activemq::wireformat::openwire::marshal::v3::ActiveMQBlobWireMessageMarshaller	openwire::marshal::v3::DiscoveryEventManager
151	1217
activemq::wireformat::openwire::marshal::v3::ActiveMQByteWireMessageMarshaller	openwire::marshal::v3::ExceptionResponse
178	1279
activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller	openwire::marshal::v3::FlushCommand
240	1364
activemq::wireformat::openwire::marshal::v3::ActiveMQMapWireMessageMarshaller	openwire::marshal::v3::IntegerResponse
267	1453
activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller	openwire::marshal::v3::JournalQueueAck
282	1503
activemq::wireformat::openwire::marshal::v3::ActiveMQObjectWireMessageMarshaller	openwire::marshal::v3::JournalTopicAck
313	1516
activemq::wireformat::openwire::marshal::v3::ActiveMQQueueWireMarshaller	openwire::marshal::v3::JournalTraceManager
341	1531
activemq::wireformat::openwire::marshal::v3::ActiveMQSequenceWireMessageMarshaller	openwire::marshal::v3::JournalTransaction
387	1547
activemq::wireformat::openwire::marshal::v3::ActiveMQSimpleInformationMarshaller	openwire::marshal::v3::KeepAliveInfoManager
403	1558
activemq::wireformat::openwire::marshal::v3::ActiveMQSimpleQueueMarshaller	openwire::marshal::v3::LastPartialCommand
420	1578
activemq::wireformat::openwire::marshal::v3::ActiveMQSimpleTopicMarshaller	openwire::marshal::v3::LocalTransaction
437	1608
activemq::wireformat::openwire::marshal::v3::ActiveMQTextWireMessageMarshaller	openwire::marshal::v3::MessageAckManager
453	1787
activemq::wireformat::openwire::marshal::v3::ActiveMQTopicWireMarshaller	openwire::marshal::v3::MessageDispatcher
469	1815
activemq::wireformat::openwire::marshal::v3::BaseCommandWireMarshaller	openwire::marshal::v3::MessageDispatcher
515	1837
activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller	openwire::marshal::v3::MessageIdMarshaller
595	1852
activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller	openwire::marshal::v3::MessageMarshaller
615	1866
activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller	openwire::marshal::v3::MessagePullMarshaller
950	1902
activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller	openwire::marshal::v3::NetworkBridgeFactory
966	1927
activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller	openwire::marshal::v3::PartialCommand
985	2003
activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller	openwire::marshal::v3::ProducerAckManager
1003	2090
activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller	openwire::marshal::v3::ProducerIdMarshaller
1033	2114
activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller	openwire::marshal::v3::ProducerInfoManager
1050	2131
activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller	openwire::marshal::v3::RemoveInfoMarshaller
1070	2189
activemq::wireformat::openwire::marshal::v3::ConnectionQueueMarshaller	openwire::marshal::v3::RemoveSubscription
1091	2202
activemq::wireformat::openwire::marshal::v3::DataAwareResponseMarshaller	openwire::marshal::v3::ReplayCommand
1104	2218
activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller	openwire::marshal::v3::ResponseMarshaller
1135	2246

- activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller, 2292
- activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller, 2312
- activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller, 2360
- activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller, 2500
- activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller, 2581
- activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller, 2598
- activemq::wireformat::openwire::marshal::v3::WireFormatInfoMarshaller, 2709
- activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller, 2740
- tightMarshal2 1108
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 544
- activemq::wireformat::openwire::marshal::DataStreamMarshaller, 1164
- activemq::wireformat::openwire::marshal::v1::ActiveMQBlockWireFormatMarshaller, 155
- activemq::wireformat::openwire::marshal::v1::ActiveMQByteWireFormatMarshaller, 182
- activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller, 244
- activemq::wireformat::openwire::marshal::v1::ActiveMQMapWireFormatMarshaller, 271
- activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller, 286
- activemq::wireformat::openwire::marshal::v1::ActiveMQObjectWireFormatMarshaller, 317
- activemq::wireformat::openwire::marshal::v1::ActiveMQQueueWireFormatMarshaller, 345
- activemq::wireformat::openwire::marshal::v1::ActiveMQStackWireFormatMarshaller, 391
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller, 407
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempQueueMarshaller, 424
- activemq::wireformat::openwire::marshal::v1::ActiveMQTempTopicMarshaller, 441
- activemq::wireformat::openwire::marshal::v1::ActiveMQTextWireFormatMarshaller, 457
- activemq::wireformat::openwire::marshal::v1::ActiveMQTopicMarshaller, 473
- activemq::wireformat::openwire::marshal::v1::BaseCommandMarshaller, 523
- activemq::wireformat::openwire::marshal::v1::BrokerIdMarshaller, 599
- activemq::wireformat::openwire::marshal::v1::BrokerInfoMarshaller, 619
- activemq::wireformat::openwire::marshal::v1::ConnectionControlMarshaller, 1074
- activemq::wireformat::openwire::marshal::v1::ConnectionErrorInfoMarshaller, 1070
- activemq::wireformat::openwire::marshal::v1::ConnectionIdMarshaller, 1080
- activemq::wireformat::openwire::marshal::v1::ConnectionInfoMarshaller, 1087
- activemq::wireformat::openwire::marshal::v1::ConsumerControlMarshaller, 1091
- activemq::wireformat::openwire::marshal::v1::ConsumerIdMarshaller, 1094
- activemq::wireformat::openwire::marshal::v1::ConsumerInfoMarshaller, 1097
- activemq::wireformat::openwire::marshal::v1::ControlCommandMarshaller, 1087
- activemq::wireformat::openwire::marshal::v1::DataArrayResponseMarshaller, 1108
- activemq::wireformat::openwire::marshal::v1::DataResponseMarshaller, 1139
- activemq::wireformat::openwire::marshal::v1::DestinationInfoMarshaller, 1203
- activemq::wireformat::openwire::marshal::v1::DiscoveryEventManager, 1221
- activemq::wireformat::openwire::marshal::v1::ExceptionResponseMarshaller, 1283
- activemq::wireformat::openwire::marshal::v1::FlushCommandMarshaller, 1360
- activemq::wireformat::openwire::marshal::v1::IntegerResponseMarshaller, 1449
- activemq::wireformat::openwire::marshal::v1::JournalQueueAckMarshaller, 1499
- activemq::wireformat::openwire::marshal::v1::JournalTopicAckMarshaller, 1520
- activemq::wireformat::openwire::marshal::v1::JournalTraceMarshaller, 1535
- activemq::wireformat::openwire::marshal::v1::JournalTransactionMarshaller, 1551
- activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMarshaller, 1566
- activemq::wireformat::openwire::marshal::v1::LastPartialCommandMarshaller, 1582
- activemq::wireformat::openwire::marshal::v1::LocalTransactionMarshaller, 1612
- activemq::wireformat::openwire::marshal::v1::MessageAckMarshaller, 1791
- activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller, 1819
- activemq::wireformat::openwire::marshal::v1::MessageDispatchMarshaller, 1833
- activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller, 1848
- activemq::wireformat::openwire::marshal::v1::MessageMarshaller, 1871
- activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller, 1871

1906	428
activemq::wireformat::openwire::marshal::v1::NetworkBridgeFilterMarshaller	openwire::marshal::v2::ActiveMQTemp
1935	445
activemq::wireformat::openwire::marshal::v1::PartialCommandMarshaller	openwire::marshal::v2::ActiveMQTextM
2007	461
activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller	openwire::marshal::v2::ActiveMQTopicC
2094	477
activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller	openwire::marshal::v2::BaseCommandM
2118	530
activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller	openwire::marshal::v2::BrokerIdMarsh
2135	603
activemq::wireformat::openwire::marshal::v1::RemoteInfoMarshaller	openwire::marshal::v2::BrokerInfoMarsh
2185	623
activemq::wireformat::openwire::marshal::v1::RemoteSubscriptionInfoMarshaller	openwire::marshal::v2::ConnectionCont
2206	958
activemq::wireformat::openwire::marshal::v1::ReplaceCommandMarshaller	openwire::marshal::v2::ConnectionError
2222	974
activemq::wireformat::openwire::marshal::v1::ResponseMarshaller	openwire::marshal::v2::ConnectionIdMa
2252	993
activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	openwire::marshal::v2::ConnectionInfoM
2288	1011
activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	openwire::marshal::v2::ConsumerContro
2304	1041
activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller	openwire::marshal::v2::ConsumerIdMar
2356	1058
activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller	openwire::marshal::v2::ConsumerInfoMa
2496	1078
activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller	openwire::marshal::v2::ControlComm
2577	1095
activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller	openwire::marshal::v2::DataArrayRespo
2602	1112
activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller	openwire::marshal::v2::DataResponseM
2717	1143
activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller	openwire::marshal::v2::DestinationInfoM
2736	1207
activemq::wireformat::openwire::marshal::v2::ActiveMQBinaryMessageMarshaller	openwire::marshal::v2::DiscoveryEventM
159	1225
activemq::wireformat::openwire::marshal::v2::ActiveMQBytesMessageMarshaller	openwire::marshal::v2::ExceptionRespo
186	1287
activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller	openwire::marshal::v2::FlushCommandL
248	1368
activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller	openwire::marshal::v2::IntegerResponse
275	1445
activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller	openwire::marshal::v2::JournalQueueAc
290	1495
activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller	openwire::marshal::v2::JournalTopicAck
321	1512
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMarshaller	openwire::marshal::v2::JournalTraceMa
349	1527
activemq::wireformat::openwire::marshal::v2::ActiveMQSequenceMessageMarshaller	openwire::marshal::v2::JournalTransact
395	1543
activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller	openwire::marshal::v2::KeepAliveInfoM
411	1562
activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller	openwire::marshal::v2::LastPartialCom

1586	240
activemq::wireformat::openwire::marshal::v2::LocalTransactionIdMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQMapMarshaller
1604	267
activemq::wireformat::openwire::marshal::v2::MessageAckMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQMessageAckMarshaller
1783	282
activemq::wireformat::openwire::marshal::v2::MessageDispatchInfoMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQObjectAckMarshaller
1811	313
activemq::wireformat::openwire::marshal::v2::MessageDispatchNotificationMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQQueueAckMarshaller
1829	341
activemq::wireformat::openwire::marshal::v2::MessageIdMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQStreamAckMarshaller
1856	387
activemq::wireformat::openwire::marshal::v2::MessageMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQTemplateMarshaller
1861	403
activemq::wireformat::openwire::marshal::v2::MessagePublishInfoMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQTemplateMarshaller
1898	420
activemq::wireformat::openwire::marshal::v2::NetworkBridgeFilterMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQTemplateMarshaller
1931	437
activemq::wireformat::openwire::marshal::v2::PartialCommandMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQTextMarshaller
1999	453
activemq::wireformat::openwire::marshal::v2::ProducerAckMarshaller	activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller
2098	469
activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller	activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller
2110	516
activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller	activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller
2127	595
activemq::wireformat::openwire::marshal::v2::RemoveInfoMarshaller	activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller
2181	615
activemq::wireformat::openwire::marshal::v2::RemoveSubscriptionInfoMarshaller	activemq::wireformat::openwire::marshal::v3::ConnectionContainerMarshaller
2198	950
activemq::wireformat::openwire::marshal::v2::ReplyCommandMarshaller	activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller
2214	966
activemq::wireformat::openwire::marshal::v2::ResponseMarshaller	activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller
2242	985
activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller	activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller
2296	1003
activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller	activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller
2308	1033
activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller	activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller
2352	1050
activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller	activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller
2504	1070
activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller	activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller
2585	1091
activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller	activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller
2594	1104
activemq::wireformat::openwire::marshal::v2::WireFormatInfoMarshaller	activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller
2713	1135
activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller	activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller
2744	1199
activemq::wireformat::openwire::marshal::v3::ActiveMQBlockTransferMarshaller	activemq::wireformat::openwire::marshal::v3::DiscoveryEventManagerMarshaller
151	1217
activemq::wireformat::openwire::marshal::v3::ActiveMQByteMessageMarshaller	activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller
178	1279
activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller	activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller

- 1364
- activemq::wireformat::openwire::marshal::v3::IntegerResponseInfoMarshaller, openwire::marshal::v3::TransactionIdMarshaller, 2500
- 1453
- activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller, openwire::marshal::v3::TransactionInfoMarshaller, 2581
- 1503
- activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller, openwire::marshal::v3::WireFormatInfoMarshaller, 2598
- 1516
- activemq::wireformat::openwire::marshal::v3::JournalTransactionInfoMarshaller, openwire::marshal::v3::XATransactionInfoMarshaller, 2709
- 1531
- activemq::wireformat::openwire::marshal::v3::LightMarshallerBrokerMarshaller, 2740
- 1547
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 545
- activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller, 545
- 1558
- tightMarshalBrokerError2, 545
- activemq::wireformat::openwire::marshal::v3::LastPartialCommitInfoMarshaller, openwire::marshal::BaseDataStreamMarshaller, 545
- 1578
- activemq::wireformat::openwire::marshal::v3::LightMarshalCachedObjectMarshaller, 545
- 1608
- activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller, 545
- 1787
- tightMarshalCachedObject2, 545
- activemq::wireformat::openwire::marshal::v3::MessageDispatchInfoMarshaller, openwire::marshal::BaseDataStreamMarshaller, 546
- 1815
- activemq::wireformat::openwire::marshal::v3::MessageDispatchLongNotificationMarshaller, 546
- 1837
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 546
- activemq::wireformat::openwire::marshal::v3::MessageIdMarshaller, 546
- 1852
- tightMarshalLong2, 546
- activemq::wireformat::openwire::marshal::v3::MessageMarshaller, openwire::marshal::BaseDataStreamMarshaller, 547
- 1866
- activemq::wireformat::openwire::marshal::v3::MessageBatchMarshaller, 547
- 1902
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 547
- activemq::wireformat::openwire::marshal::v3::NetworkBridgeFilterMarshaller, 547
- 1927
- activemq::wireformat::openwire::OpenWireFormat, 547
- activemq::wireformat::openwire::marshal::v3::PartialCommitAndMarshaller, 547
- 2003
- tightMarshalNestedObject2, 547
- activemq::wireformat::openwire::marshal::v3::ProducerAckMarshaller, openwire::marshal::BaseDataStreamMarshaller, 547
- 2090
- activemq::wireformat::openwire::marshal::v3::ProducerIdMarshaller, openwire::OpenWireFormat, 1978
- 2114
- activemq::wireformat::openwire::marshal::v3::RightMarshalObjectArray1, 548
- 2131
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 548
- activemq::wireformat::openwire::marshal::v3::RemoveIdMarshaller, 548
- 2189
- tightMarshalObjectArray2, 548
- activemq::wireformat::openwire::marshal::v3::RemoveSubscriptionInfoMarshaller, openwire::marshal::BaseDataStreamMarshaller, 548
- 2202
- activemq::wireformat::openwire::marshal::v3::ReplyToGroupMarshaller, 548
- 2218
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 549
- activemq::wireformat::openwire::marshal::v3::ResponseMarshaller, 549
- 2247
- tightMarshalString2, 549
- activemq::wireformat::openwire::marshal::v3::SessionIdMarshaller, openwire::marshal::BaseDataStreamMarshaller, 549
- 2292
- activemq::wireformat::openwire::marshal::v3::SessionInfoMarshaller, 549
- 2312
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 549
- activemq::wireformat::openwire::marshal::v3::ShutdownInfoMarshaller, 549
- 2360
- activemq::wireformat::openwire::marshal::DataStreamMarshaller, 549
- activemq::wireformat::openwire::marshal::v3::SubscriptionInfoMarshaller, 549

activemq::wireformat::openwire::marshal::v1::ActiveMQBlobMessageMarshaller	156	activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller	1222	activemq::wireformat::openwire::marshal::v1::DiscoveryEventManager	
activemq::wireformat::openwire::marshal::v1::ActiveMQByteMessageMarshaller	183	activemq::wireformat::openwire::marshal::v1::ActiveMQTextMessageMarshaller	1284	activemq::wireformat::openwire::marshal::v1::ExceptionResponse	
activemq::wireformat::openwire::marshal::v1::ActiveMQDestinationMarshaller	245	activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller	1361	activemq::wireformat::openwire::marshal::v1::FlushCommand	
activemq::wireformat::openwire::marshal::v1::ActiveMQMapMessageMarshaller	272	activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller	1450	activemq::wireformat::openwire::marshal::v1::IntegerResponse	
activemq::wireformat::openwire::marshal::v1::ActiveMQMessageMarshaller	287	activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller	1500	activemq::wireformat::openwire::marshal::v1::JournalQueueAck	
activemq::wireformat::openwire::marshal::v1::ActiveMQObjectMessageMarshaller	318	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1521	activemq::wireformat::openwire::marshal::v1::JournalTopicAck	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	346	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1536	activemq::wireformat::openwire::marshal::v1::JournalTraceMessage	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	392	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1552	activemq::wireformat::openwire::marshal::v1::JournalTransaction	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	408	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1567	activemq::wireformat::openwire::marshal::v1::KeepAliveInfoMessage	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	425	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1583	activemq::wireformat::openwire::marshal::v1::LastPartialCommand	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	442	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1613	activemq::wireformat::openwire::marshal::v1::LocalTransaction	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	458	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1792	activemq::wireformat::openwire::marshal::v1::MessageAckMessage	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	474	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1820	activemq::wireformat::openwire::marshal::v1::MessageDispatch	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	524	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1834	activemq::wireformat::openwire::marshal::v1::MessageDispatch	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	600	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1849	activemq::wireformat::openwire::marshal::v1::MessageIdMarshaller	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	620	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1872	activemq::wireformat::openwire::marshal::v1::MessageMarshaller	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	955	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1907	activemq::wireformat::openwire::marshal::v1::MessagePullMarshaller	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	971	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1936	activemq::wireformat::openwire::marshal::v1::NetworkBridgeFailure	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	990	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2008	activemq::wireformat::openwire::marshal::v1::PartialCommand	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1008	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2095	activemq::wireformat::openwire::marshal::v1::ProducerAckMessage	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1038	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2119	activemq::wireformat::openwire::marshal::v1::ProducerIdMarshaller	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1055	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2136	activemq::wireformat::openwire::marshal::v1::ProducerInfoMessage	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1075	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2186	activemq::wireformat::openwire::marshal::v1::RemoveInfoMessage	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1088	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2207	activemq::wireformat::openwire::marshal::v1::RemoveSubscription	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1109	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2223	activemq::wireformat::openwire::marshal::v1::ReplayCommand	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1140	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2252	activemq::wireformat::openwire::marshal::v1::ResponseMarshaller	
activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	1204	activemq::wireformat::openwire::marshal::v1::ActiveMQQueueMessageMarshaller	2289	activemq::wireformat::openwire::marshal::v1::SessionIdMarshaller	

activemq::wireformat::openwire::marshal::v1::SessionInfoMarshaller	1042
2305	
activemq::wireformat::openwire::marshal::v1::ShutdownInfoMarshaller	1059
2357	
activemq::wireformat::openwire::marshal::v1::SubscriptionInfoMarshaller	1079
2497	
activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller	1096
2578	
activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller	1113
2603	
activemq::wireformat::openwire::marshal::v1::WireFormatInfoMarshaller	1144
2718	
activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller	1208
2737	
activemq::wireformat::openwire::marshal::v2::ActiveMQBlockMessageMarshaller	1226
160	
activemq::wireformat::openwire::marshal::v2::ActiveMQByteMessageMarshaller	1288
187	
activemq::wireformat::openwire::marshal::v2::ActiveMQDestinationMarshaller	1369
249	
activemq::wireformat::openwire::marshal::v2::ActiveMQMapMessageMarshaller	1446
276	
activemq::wireformat::openwire::marshal::v2::ActiveMQMessageMarshaller	1496
291	
activemq::wireformat::openwire::marshal::v2::ActiveMQObjectMessageMarshaller	1513
322	
activemq::wireformat::openwire::marshal::v2::ActiveMQQueueMessageMarshaller	1528
350	
activemq::wireformat::openwire::marshal::v2::ActiveMQStreamMessageMarshaller	1544
396	
activemq::wireformat::openwire::marshal::v2::ActiveMQTempDestinationMarshaller	1563
412	
activemq::wireformat::openwire::marshal::v2::ActiveMQTempQueueMarshaller	1587
429	
activemq::wireformat::openwire::marshal::v2::ActiveMQTempTopicMarshaller	1605
446	
activemq::wireformat::openwire::marshal::v2::ActiveMQTextMessageMarshaller	1784
462	
activemq::wireformat::openwire::marshal::v2::ActiveMQTopicMarshaller	1812
478	
activemq::wireformat::openwire::marshal::v2::BaseCommandMarshaller	1830
531	
activemq::wireformat::openwire::marshal::v2::BrokerIdMarshaller	1857
604	
activemq::wireformat::openwire::marshal::v2::BrokerInfoMarshaller	1862
624	
activemq::wireformat::openwire::marshal::v2::ConnectionControlMarshaller	1899
959	
activemq::wireformat::openwire::marshal::v2::ConnectionErrorMarshaller	1932
975	
activemq::wireformat::openwire::marshal::v2::ConnectionIdMarshaller	2000
994	
activemq::wireformat::openwire::marshal::v2::ConnectionInfoMarshaller	2099
1012	
activemq::wireformat::openwire::marshal::v2::ConsumerControlMarshaller	
ConsumerIdMarshaller	
ConsumerInfoMarshaller	
ControlCommandMarshaller	
DataArrayResponseMarshaller	
DataResponseMarshaller	
DestinationInfoMarshaller	
DiscoveryEventManager	
ExceptionResponseMarshaller	
FlushCommandMarshaller	
IntegerResponseMarshaller	
JournalQueueAckMarshaller	
JournalTopicAckMarshaller	
JournalTraceMarshaller	
JournalTransactionMarshaller	
KeepAliveInfoMarshaller	
LastPartialCommandMarshaller	
LocalTransactionMarshaller	
MessageAckMarshaller	
MessageDispatchMarshaller	
MessagePullMarshaller	
NetworkBridgeMarshaller	
PartialCommandMarshaller	
ProducerAckMarshaller	

activemq::wireformat::openwire::marshal::v2::ProducerIdMarshaller	2111	activemq::wireformat::openwire::marshal::v3::BaseCommandMarshaller	517
activemq::wireformat::openwire::marshal::v2::ProducerInfoMarshaller	2128	activemq::wireformat::openwire::marshal::v3::BrokerIdMarshaller	596
activemq::wireformat::openwire::marshal::v2::RemoteInfoMarshaller	2182	activemq::wireformat::openwire::marshal::v3::BrokerInfoMarshaller	616
activemq::wireformat::openwire::marshal::v2::RemoteSubscriptionInfoMarshaller	2199	activemq::wireformat::openwire::marshal::v3::ConnectionControlMarshaller	951
activemq::wireformat::openwire::marshal::v2::ReplyCommandMarshaller	2215	activemq::wireformat::openwire::marshal::v3::ConnectionErrorMarshaller	967
activemq::wireformat::openwire::marshal::v2::ResponseMarshaller	2242	activemq::wireformat::openwire::marshal::v3::ConnectionIdMarshaller	986
activemq::wireformat::openwire::marshal::v2::SessionIdMarshaller	2297	activemq::wireformat::openwire::marshal::v3::ConnectionInfoMarshaller	1004
activemq::wireformat::openwire::marshal::v2::SessionInfoMarshaller	2309	activemq::wireformat::openwire::marshal::v3::ConsumerControlMarshaller	1034
activemq::wireformat::openwire::marshal::v2::ShutdownInfoMarshaller	2353	activemq::wireformat::openwire::marshal::v3::ConsumerIdMarshaller	1051
activemq::wireformat::openwire::marshal::v2::SubscriptionInfoMarshaller	2505	activemq::wireformat::openwire::marshal::v3::ConsumerInfoMarshaller	1071
activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller	2586	activemq::wireformat::openwire::marshal::v3::ControlCommandMarshaller	1092
activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller	2595	activemq::wireformat::openwire::marshal::v3::DataArrayResponseMarshaller	1105
activemq::wireformat::openwire::marshal::v2::WireFormatMarshaller	2714	activemq::wireformat::openwire::marshal::v3::DataResponseMarshaller	1136
activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller	2745	activemq::wireformat::openwire::marshal::v3::DestinationInfoMarshaller	1200
activemq::wireformat::openwire::marshal::v3::ActiveMQBlockWireFormatMarshaller	152	activemq::wireformat::openwire::marshal::v3::DiscoveryEventMarshaller	1218
activemq::wireformat::openwire::marshal::v3::ActiveMQBytesMessageMarshaller	179	activemq::wireformat::openwire::marshal::v3::ExceptionResponseMarshaller	1280
activemq::wireformat::openwire::marshal::v3::ActiveMQDestinationMarshaller	241	activemq::wireformat::openwire::marshal::v3::FlushCommandMarshaller	1365
activemq::wireformat::openwire::marshal::v3::ActiveMQMapMessageMarshaller	268	activemq::wireformat::openwire::marshal::v3::IntegerResponseMarshaller	1454
activemq::wireformat::openwire::marshal::v3::ActiveMQMessageMarshaller	283	activemq::wireformat::openwire::marshal::v3::JournalQueueAckMarshaller	1504
activemq::wireformat::openwire::marshal::v3::ActiveMQObjectMessageMarshaller	314	activemq::wireformat::openwire::marshal::v3::JournalTopicAckMarshaller	1517
activemq::wireformat::openwire::marshal::v3::ActiveMQQueueMarshaller	342	activemq::wireformat::openwire::marshal::v3::JournalTraceMarshaller	1532
activemq::wireformat::openwire::marshal::v3::ActiveMQSequenceMessageMarshaller	388	activemq::wireformat::openwire::marshal::v3::JournalTransactionMarshaller	1548
activemq::wireformat::openwire::marshal::v3::ActiveMQTempDestinationMarshaller	404	activemq::wireformat::openwire::marshal::v3::KeepAliveInfoMarshaller	1559
activemq::wireformat::openwire::marshal::v3::ActiveMQTempQueueMarshaller	421	activemq::wireformat::openwire::marshal::v3::LastPartialCommandMarshaller	1579
activemq::wireformat::openwire::marshal::v3::ActiveMQTempTopicMarshaller	438	activemq::wireformat::openwire::marshal::v3::LocalTransactionMarshaller	1609
activemq::wireformat::openwire::marshal::v3::ActiveMQTextMessageMarshaller	454	activemq::wireformat::openwire::marshal::v3::MessageAckMarshaller	1788
activemq::wireformat::openwire::marshal::v3::ActiveMQTopicMarshaller	470	activemq::wireformat::openwire::marshal::v3::MessageDispatchMarshaller	1816

- toMicros
 - decaf::util::concurrent::TimeUnit, 2565
- toMillis
 - decaf::util::concurrent::TimeUnit, 2565
- toMinutes
 - decaf::util::concurrent::TimeUnit, 2566
- toNanos
 - decaf::util::concurrent::TimeUnit, 2566
- toOctalString
 - decaf::lang::Integer, 1437
 - decaf::lang::Long, 1661
- TOPIC
 - cms::Destination, 1188
- TOPIC_PREFIX
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- TOPIC_QUALIFIED_PREFIX
 - activemq::commands::ActiveMQDestination, 237
- toRadians
 - decaf::lang::Math, 1730
- toSeconds
 - decaf::util::concurrent::TimeUnit, 2566
- toStream
 - activemq::wireformat::stomp::StompFrame, 2458
- toString
 - activemq::commands::ActiveMQBlobMessage, 147
 - activemq::commands::ActiveMQBytesMessage, 170
 - activemq::commands::ActiveMQDestination, 235
 - activemq::commands::ActiveMQMapMessage, 264
 - activemq::commands::ActiveMQMessage, 278
 - activemq::commands::ActiveMQObjectMessage, 310
 - activemq::commands::ActiveMQQueue, 338
 - activemq::commands::ActiveMQStreamMessage, 380
 - activemq::commands::ActiveMQTempDestination, 399
 - activemq::commands::ActiveMQTempQueue, 416
 - activemq::commands::ActiveMQTempTopic, 433
 - activemq::commands::ActiveMQTextMessage, 449
 - activemq::commands::ActiveMQTopic, 466
 - activemq::commands::BaseCommand, 510
 - activemq::commands::BaseDataStructure, 558
 - activemq::commands::BooleanExpression, 577
 - activemq::commands::BrokerId, 592
 - activemq::commands::BrokerInfo, 610
 - activemq::commands::Command, 880
 - activemq::commands::ConnectionControl, 946
 - activemq::commands::ConnectionError, 962
 - activemq::commands::ConnectionId, 981
 - activemq::commands::ConnectionInfo, 999
 - activemq::commands::ConsumerControl, 1029
 - activemq::commands::ConsumerId, 1046
 - activemq::commands::ConsumerInfo, 1065
 - activemq::commands::ControlCommand, 1083
 - activemq::commands::DataArrayResponse, 1101
 - activemq::commands::DataResponse, 1132
 - activemq::commands::DataStructure, 1175
 - activemq::commands::DestinationInfo, 1195
 - activemq::commands::DiscoveryEvent, 1213
 - activemq::commands::ExceptionResponse, 1276
 - activemq::commands::FlushCommand, 1357
 - activemq::commands::IntegerResponse, 1442
 - activemq::commands::JournalQueueAck, 1491
 - activemq::commands::JournalTopicAck, 1508
 - activemq::commands::JournalTrace, 1524
 - activemq::commands::JournalTransaction, 1539
 - activemq::commands::KeepAliveInfo, 1555
 - activemq::commands::LastPartialCommand, 1575
 - activemq::commands::LocalTransactionId, 1601
 - activemq::commands::Message, 1747
 - activemq::commands::MessageAck, 1779
 - activemq::commands::MessageDispatch, 1801
 - activemq::commands::MessageDispatchNotification, 1825
 - activemq::commands::MessageId, 1844
 - activemq::commands::MessagePull, 1894

- activemq::commands::NetworkBridgeFilter, 1924
- activemq::commands::PartialCommand, 1995
- activemq::commands::ProducerAck, 2086
- activemq::commands::ProducerId, 2106
- activemq::commands::ProducerInfo, 2123
- activemq::commands::RemoveInfo, 2177
- activemq::commands::RemoveSubscriptionInfo, 2194
- activemq::commands::ReplayCommand, 2210
- activemq::commands::Response, 2231
- activemq::commands::SessionId, 2285
- activemq::commands::SessionInfo, 2300
- activemq::commands::ShutdownInfo, 2349
- activemq::commands::SubscriptionInfo, 2492
- activemq::commands::TransactionId, 2573
- activemq::commands::TransactionInfo, 2590
- activemq::commands::WireFormatInfo, 2706
- activemq::commands::XATransactionId, 2732
- activemq::core::ActiveMQConstants, 216
- activemq::state::ConnectionState, 1019
- activemq::state::ConsumerState, 1080
- activemq::state::ProducerState, 2137
- activemq::state::SessionState, 2317
- activemq::state::TransactionState, 2605
- activemq::util::ActiveMQProperties, 333
- activemq::util::PrimitiveList, 2048
- activemq::util::PrimitiveMap, 2058
- activemq::util::PrimitiveValueNode, 2080
- activemq::wireformat::openwire::marshal::BaseDataStreamMarshaller, 553
- cms::CMSProperties, 854
- decaf::io::ByteArrayOutputStream, 724
- decaf::lang::Boolean, 574
- decaf::lang::Byte, 668
- decaf::lang::Character, 805
- decaf::lang::CharSequence, 832
- decaf::lang::Double, 1238
- decaf::lang::Float, 1334, 1335
- decaf::lang::Integer, 1437, 1438
- decaf::lang::Long, 1661
- decaf::lang::Short, 2325
- decaf::net::URI, 2646
- decaf::nio::ByteBuffer, 755
- decaf::nio::CharBuffer, 829
- decaf::nio::DoubleBuffer, 1257
- decaf::nio::FloatBuffer, 1353
- decaf::nio::IntBuffer, 1424
- decaf::nio::LongBuffer, 1681
- decaf::nio::ShortBuffer, 2345
- decaf::security::cert::Certificate, 787
- decaf::security_-
 - provider::unix::openssl::OpenSSLX500Principal, 1961
- decaf::security_-
 - provider::unix::openssl::OpenSSLX509Certificate, 1966
- decaf::util::concurrent::atomic::AtomicBoolean, 487
- decaf::util::concurrent::atomic::AtomicInteger, 493
- decaf::util::concurrent::atomic::AtomicReference, 498
- decaf::util::concurrent::TimeUnit, 2567
- decaf::util::Properties, 2146
- decaf::util::UUID, 2689
- toURI
 - activemq::util::CompositeData, 903
- toURIOption
 - activemq::core::ActiveMQConstants, 216
- toURL
 - decaf::net::URI, 2646
- track
 - activemq::state::ConnectionStateTracker, 1025
- trackBack
 - activemq::state::ConnectionStateTracker, 1025
- Tracked
 - activemq::state::Tracked, 2570
- TRANSACTION_STATE_BEGIN
 - activemq::core::ActiveMQConstants, 216
- TRANSACTION_STATE_-
 - COMMITONEPHASE
 - activemq::core::ActiveMQConstants, 216
 - TRANSACTION_STATE_-
 - COMMITTWOPHASE
 - activemq::core::ActiveMQConstants, 216
 - TRANSACTION_STATE_END
 - activemq::core::ActiveMQConstants, 216
 - TRANSACTION_STATE_FORGET
 - activemq::core::ActiveMQConstants, 216
 - TRANSACTION_STATE_PREPARE
 - activemq::core::ActiveMQConstants, 216
 - TRANSACTION_STATE_RECOVER
 - activemq::core::ActiveMQConstants, 216
 - TRANSACTION_STATE_ROLLBACK
 - activemq::core::ActiveMQConstants, 216
- TransactionId
 - activemq::commands::TransactionId, 2572
- transactionId

- activemq::commands::JournalTopicAck, 1509
- activemq::commands::JournalTransaction, 1540
- activemq::commands::Message, 1749
- activemq::commands::MessageAck, 1780
- activemq::commands::TransactionInfo, 2590
- TransactionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::TransactionIdMarshaller, 2576
 - activemq::wireformat::openwire::marshal::v2::TransactionIdMarshaller, 2584
 - activemq::wireformat::openwire::marshal::v3::TransactionIdMarshaller, 2580
- TransactionInfo
 - activemq::commands::TransactionInfo, 2588
- TransactionInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::TransactionInfoMarshaller, 2601
 - activemq::wireformat::openwire::marshal::v2::TransactionInfoMarshaller, 2593
 - activemq::wireformat::openwire::marshal::v3::TransactionInfoMarshaller, 2597
- TransactionState
 - activemq::core::ActiveMQConstants, 215
 - activemq::state::TransactionState, 2605
- TransportFilter
 - activemq::transport::TransportFilter, 2616
- transportInterrupted
 - activemq::core::ActiveMQConnection, 197
 - activemq::transport::DefaultTransportListener, 1184
 - activemq::transport::failover::FailoverTransportListener, 1310
 - activemq::transport::TransportFilter, 2621
 - activemq::transport::TransportListener, 2623
- transportResumed
 - activemq::core::ActiveMQConnectionSupport, 213
 - activemq::transport::DefaultTransportListener, 1184
 - activemq::transport::failover::FailoverTransportListener, 1310
 - activemq::transport::TransportFilter, 2621
 - activemq::transport::TransportListener, 2623
- tryLock
 - decaf::util::concurrent::locks::Lock, 1618, 1619
- type
 - activemq::commands::JournalTransaction, 1540
 - activemq::commands::Message, 1749
 - activemq::commands::TransactionInfo, 2590
 - UnknownHostException
 - decaf::net::UnknownHostException, 2627, 2628
 - UnknownServiceException
 - decaf::net::UnknownServiceException, 2630, 2631
 - unlock
 - activemq::core::MessageDispatchChannel, 1807
 - decaf::internal::io::StandardInputStream, 2405
 - decaf::internal::io::StandardOutputStream, 2409
 - decaf::io::BlockingByteArrayInputStream, 569
 - decaf::io::ByteArrayInputStream, 719
 - decaf::io::ByteArrayOutputStream, 724
 - decaf::io::FilterInputStream, 1318
 - decaf::io::FilterOutputStream, 1323
 - decaf::net::SocketInputStream, 2386
 - decaf::net::SocketOutputStream, 2390
 - decaf::util::AbstractCollection, 130
 - decaf::util::concurrent::ConcurrentStlMap, 928
 - decaf::util::concurrent::Lock, 1615
 - decaf::util::concurrent::locks::Lock, 1620
 - decaf::util::concurrent::Mutex, 1920
 - decaf::util::concurrent::Synchronizable, 2510
 - decaf::util::StlMap, 2436
 - decaf::util::StlQueue, 2442
 - unmarshal
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2062
 - activemq::wireformat::openwire::OpenWireFormat, 1978
 - activemq::wireformat::openwire::utils::BooleanStream, 579
 - activemq::wireformat::stomp::StompWireFormat, 2466
 - activemq::wireformat::WireFormat, 2693
 - unmarshalPrimitive
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2062
 - unmarshalPrimitiveList
 - activemq::wireformat::openwire::marshal::PrimitiveTypesMarshaller, 2063
 - unmarshalPrimitiveMap

- activemq::wireformat::openwire::marshal::PrimitiveTypeMismatchDataFormatException, 2063
- unregisterFactory
 - activemq::transport::TransportRegistry, 2626
 - activemq::wireformat::WireFormatRegistry, 2722
- unregisterSecurityProvider
 - decaf::security_ - provider::SecurityProviderMap, 2262
- unsetenv
 - decaf::lang::System, 2517
- UNSUBSCRIBE
 - activemq::wireformat::stomp::StompCommandConstants, 2452
- unsubscribe
 - activemq::cmsutil::PooledSession, 2029
 - activemq::core::ActiveMQSession, 365
 - cms::Session, 2280
- UnsupportedOperationException
 - decaf::lang::exceptions::UnsupportedOperationException, 2633, 2634
- URI
 - decaf::net::URI, 2638, 2639
- URIEncoderDecoder
 - decaf::internal::net::URIEncoderDecoder, 2647
- URIHelper
 - decaf::internal::net::URIHelper, 2651
- URIParam
 - activemq::core::ActiveMQConstants, 216
- uriParams
 - activemq::core::ActiveMQConstants::StaticInitializer, 2413
- uriParamsMap
 - activemq::core::ActiveMQConstants::StaticInitializer, 2413
- URIPool
 - activemq::transport::failover::URIPool, 2657
- URISyntaxException
 - decaf::net::URISyntaxException, 2663–2665
- URIType
 - decaf::internal::net::URIType, 2669
- URL
 - decaf::net::URL, 2676
- userID
 - activemq::commands::Message, 1749
- userName
 - activemq::commands::ConnectionInfo, 1000
- UTFDataFormatException
 - decaf::internal::net::UTFDataFormatException, 2681, 2682
- UUID
 - decaf::util::UUID, 2685
- validate
 - decaf::internal::net::URIEncoderDecoder, 2648
 - validateAuthority
 - decaf::internal::net::URIHelper, 2654
 - validateFragment
 - decaf::internal::net::URIHelper, 2654
 - validatePath
 - decaf::internal::net::URIHelper, 2654
 - validateQuery
 - decaf::internal::net::URIHelper, 2655
 - validateScheme
 - decaf::internal::net::URIHelper, 2655
 - validateSimple
 - decaf::internal::net::URIEncoderDecoder, 2648
 - validateSsp
 - decaf::internal::net::URIHelper, 2655
 - validateUserinfo
 - decaf::internal::net::URIHelper, 2656
- value
 - activemq::commands::BrokerId, 592
 - activemq::commands::ConnectionId, 982
 - activemq::commands::ConsumerId, 1047
 - activemq::commands::LocalTransactionId, 1601
 - activemq::commands::ProducerId, 2107
 - activemq::commands::SessionId, 2285
- valueOf
 - decaf::lang::Boolean, 575
 - decaf::lang::Byte, 668, 669
 - decaf::lang::Character, 805
 - decaf::lang::Double, 1238
 - decaf::lang::Float, 1335
 - decaf::lang::Integer, 1438, 1439
 - decaf::lang::Long, 1662
 - decaf::lang::Short, 2326
 - decaf::util::concurrent::TimeUnit, 2567
- values
 - decaf::util::concurrent::ConcurrentStlMap, 928
 - decaf::util::concurrent::TimeUnit, 2568
 - decaf::util::Map, 1698
 - decaf::util::StlMap, 2436
- variant
 - decaf::util::UUID, 2689
- verify
 - decaf::security::cert::Certificate, 787

- decaf::security_ -
 - provider::unix::openssl::OpenSSLX509Certificate, 2409
 - 1966, 1967
- version
 - decaf::util::UUID, 2689
- visit
 - activemq::commands::BrokerError, 587
 - activemq::commands::BrokerInfo, 611
 - activemq::commands::Command, 881
 - activemq::commands::ConnectionControl, 946
 - activemq::commands::ConnectionError, 962
 - activemq::commands::ConnectionInfo, 999
 - activemq::commands::ConsumerControl, 1029
 - activemq::commands::ConsumerInfo, 1066
 - activemq::commands::ControlCommand, 1083
 - activemq::commands::DestinationInfo, 1195
 - activemq::commands::FlushCommand, 1357
 - activemq::commands::KeepAliveInfo, 1555
 - activemq::commands::Message, 1747
 - activemq::commands::MessageAck, 1779
 - activemq::commands::MessageDispatch, 1802
 - activemq::commands::MessageDispatchNotification, 1825
 - activemq::commands::MessagePull, 1894
 - activemq::commands::ProducerAck, 2086
 - activemq::commands::ProducerInfo, 2124
 - activemq::commands::RemoveInfo, 2177
 - activemq::commands::RemoveSubscriptionInfo, 2194
 - activemq::commands::ReplayCommand, 2210
 - activemq::commands::Response, 2232
 - activemq::commands::SessionInfo, 2300
 - activemq::commands::ShutdownInfo, 2349
 - activemq::commands::TransactionInfo, 2590
 - activemq::commands::WireFormatInfo, 2706
- wait
 - activemq::core::MessageDispatchChannel, 1807
 - decaf::internal::io::StandardErrorOutputStream, 2399
 - decaf::internal::io::StandardInputStream, 2405, 2406
 - decaf::internal::io::StandardOutputStream, 2409
 - decaf::io::BlockingByteArrayInputStream, 569
 - decaf::io::ByteArrayInputStream, 719, 720
 - decaf::io::ByteArrayOutputStream, 724, 725
 - decaf::io::FilterInputStream, 1319
 - decaf::io::FilterOutputStream, 1323
 - decaf::net::SocketInputStream, 2386, 2387
 - decaf::net::SocketOutputStream, 2390
 - decaf::util::AbstractCollection, 130
 - decaf::util::concurrent::ConcurrentStlMap, 929
 - decaf::util::concurrent::Mutex, 1921
 - decaf::util::concurrent::Synchronizable, 2511, 2512
 - decaf::util::StlMap, 2437
 - decaf::util::StlQueue, 2443
- WAIT_INFINITE
 - Concurrent.h, 3291
- waitForSpace
 - activemq::util::MemoryUsage, 1733
 - activemq::util::Usage, 2680
- wakeup
 - activemq::core::ActiveMQSession, 365
 - activemq::core::ActiveMQSessionExecutor, 370
- activemq::threads::CompositeTaskRunner, 908
- activemq::threads::DedicatedTaskRunner, 1182
- activemq::threads::TaskRunner, 2520
- Warn
 - decaf::util::logging, 119
- warn
 - decaf::util::logging::Logger, 1628
 - decaf::util::logging::SimpleLogger, 2368
- wasPrepared
 - activemq::commands::JournalTransaction, 1540
- what
 - decaf::lang::Exception, 1272
- windowSize
 - activemq::commands::ProducerInfo, 2124
- WireFormatInfo
 - activemq::commands::WireFormatInfo, 2699
- WireFormatInfoMarshaller
 - activemq::wireformat::openwire::marshal::v1::WireFormatInfo, 2716
 - activemq::wireformat::openwire::marshal::v2::WireFormatInfo, 2712

- activemq::wireformat::openwire::marshal::v3::WireFormatNegotiator::writeChar
 - 2708
- WireFormatNegotiator
 - activemq::wireformat::WireFormatNegotiator::writeChar
 - 2719
- wrap
 - decaf::nio::ByteBuffer, 755
 - decaf::nio::CharBuffer, 829
 - decaf::nio::DoubleBuffer, 1257, 1258
 - decaf::nio::FloatBuffer, 1353, 1354
 - decaf::nio::IntBuffer, 1424, 1425
 - decaf::nio::LongBuffer, 1682
 - decaf::nio::ShortBuffer, 2345, 2346
- write
 - activemq::io::LoggingOutputStream, 1633, 1634
 - decaf::internal::io::StandardErrorOutputStream, 2399, 2400
 - decaf::internal::io::StandardOutputStream, 2409, 2410
 - decaf::internal::util::ByteArrayAdapter, 691
 - decaf::io::BufferedOutputStream, 637, 638
 - decaf::io::ByteArrayOutputStream, 725, 726
 - decaf::io::DataOutputStream, 1125
 - decaf::io::FilterOutputStream, 1324
 - decaf::io::OutputStream, 1990, 1991
 - decaf::io::Writer, 2723
 - decaf::net::SocketOutputStream, 2391
- writeBoolean
 - activemq::commands::ActiveMQBytesMessage, 171
 - activemq::commands::ActiveMQStreamMessage, 380
 - activemq::wireformat::openwire::utils::BooleanStream, 580
 - cms::BytesMessage, 766
 - cms::StreamMessage, 2481
 - decaf::io::DataOutputStream, 1126
- writeByte
 - activemq::commands::ActiveMQBytesMessage, 171
 - activemq::commands::ActiveMQStreamMessage, 381
 - cms::BytesMessage, 766
 - cms::StreamMessage, 2481
 - decaf::io::DataOutputStream, 1126
 - decaf::io::Writer, 2724
- writeBytes
 - activemq::commands::ActiveMQBytesMessage, 171, 172
 - activemq::commands::ActiveMQStreamMessage, 381
- writeChar
 - activemq::commands::ActiveMQBytesMessage, 172
 - activemq::commands::ActiveMQStreamMessage, 381
 - cms::BytesMessage, 767
 - cms::StreamMessage, 2482
 - decaf::io::DataOutputStream, 1126
- writeChars
 - decaf::io::DataOutputStream, 1127
- writeDouble
 - activemq::commands::ActiveMQBytesMessage, 172
 - activemq::commands::ActiveMQStreamMessage, 382
 - cms::BytesMessage, 767
 - cms::StreamMessage, 2482
 - decaf::io::DataOutputStream, 1127
- writeFloat
 - activemq::commands::ActiveMQBytesMessage, 172
 - activemq::commands::ActiveMQStreamMessage, 382
 - cms::BytesMessage, 768
 - cms::StreamMessage, 2483
 - decaf::io::DataOutputStream, 1127
- writeInt
 - activemq::commands::ActiveMQBytesMessage, 173
 - activemq::commands::ActiveMQStreamMessage, 382
 - cms::BytesMessage, 768
 - cms::StreamMessage, 2483
 - decaf::io::DataOutputStream, 1128
- writeLock
 - decaf::util::concurrent::locks::ReadWriteLock, 2169
- writeLong
 - activemq::commands::ActiveMQBytesMessage, 173
 - activemq::commands::ActiveMQStreamMessage, 382
 - cms::BytesMessage, 768
 - cms::StreamMessage, 2483
 - decaf::io::DataOutputStream, 1128
- writeShort
 - activemq::commands::ActiveMQBytesMessage, 173
 - activemq::commands::ActiveMQStreamMessage, 383
 - cms::BytesMessage, 769

- cms::StreamMessage, 2484
 - decaf::io::DataOutputStream, 1128
- writeString
 - activemq::commands::ActiveMQBytesMessage, 174
 - activemq::commands::ActiveMQStreamMessage, 383
 - activemq::wireformat::openwire::utils::OpenwireStringSupport, 1989
 - cms::BytesMessage, 769
 - cms::StreamMessage, 2484
- writeTo
 - decaf::io::ByteArrayOutputStream, 726
- writeUnsignedShort
 - activemq::commands::ActiveMQBytesMessage, 174
 - activemq::commands::ActiveMQStreamMessage, 383
 - cms::BytesMessage, 769
 - cms::StreamMessage, 2484
 - decaf::io::DataOutputStream, 1128
- writeUTF
 - activemq::commands::ActiveMQBytesMessage, 174
 - cms::BytesMessage, 770
 - decaf::io::DataOutputStream, 1129
- written
 - decaf::io::DataOutputStream, 1129
- XATransactionId
 - activemq::commands::XATransactionId, 2730
- XATransactionIdMarshaller
 - activemq::wireformat::openwire::marshal::v1::XATransactionIdMarshaller, 2735
 - activemq::wireformat::openwire::marshal::v2::XATransactionIdMarshaller, 2743
 - activemq::wireformat::openwire::marshal::v3::XATransactionIdMarshaller, 2739
- yield
 - decaf::lang::Thread, 2543