



SCons 4.0.1

Reference Manual

Steven Knight

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1 Preface

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1.1. Why SCons?

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1.2. History

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1.3. Conventions

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2 Builder Reference

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2.1.1. The Alias Method

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2.3. The Command Builder

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2.3.1. The Command Method

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2.4. The CXXFile Builder

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2.4.1. The CXXFile Method

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2.5. The Install Builder

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2.5.1. The Install Method

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2.6. The InstallAs Builder

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2.6.1. The InstallAs Method

X

2.7. The Library Builder

2.7.1. Linking With a Library

```
env = Environment(CC = 'gcc',
                 LIBS = 'world')
env.Program('hello.c')
```

```
% scons
gcc -c hello.c -o hello.o
gcc -c world.c -o world.o
gcc -o hello hello.o -lworld
```

2.7.2. Creating a Library

```
env = Environment(CC = 'gcc',
                 LIBS = 'world')
env.Program('hello.c')
env.Library('world.c')
```

```
% scons
gcc -c hello.c -o hello.o
gcc -c world.c -o world.o
ar r libworld.a world.o
ar: creating libworld.a
ranlib libworld.a
gcc -o hello hello.o libworld.a
```

2.7.3. The Library Builder

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2.8. The Object Builder

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2.8.1. The Object Method

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2.9. The PCH Builder

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2.9.1. The PCH Method

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2.10. The PDF Builder

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2.12. The Program Builder

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2.13. The RES Builder

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2.13.1. The RES Method

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2.14. The SharedLibrary Builder

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2.14.1. The sharedLibrary Method

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2.15. The SharedObject Builder

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2.15.1. The sharedObject Method

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2.16. The StaticLibrary Builder

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2.16.1. The staticLibrary Method

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2.17. The StaticObject Builder

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3 Errors Generated by SCons

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3.1. X

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