



SCons 3.0.0

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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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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2.12. The Program Builder

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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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2.17. The StaticObject Builder

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2.17.1. The StaticObject Method

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3 Errors Generated by SCons

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