



SCONS 4.0.1

Reference Manual

Steven Knight

version 4.0.1
Copyright © 2003 Steven Knight
Publication date 2003

SCons User's Guide Copyright (c) 2003 Steven Knight

Table of Contents

1. Preface	1
1.1. Why SCons?	1
1.2. History	1
1.3. Conventions	1
1.4. Acknowledgements	1
1.5. Contact	1
2. Builder Reference	2
2.1. The Alias Builder	2
2.1.1. The Alias Method	2
2.2. The CFile Builder	2
2.2.1. The CFile Method	2
2.3. The Command Builder	2
2.3.1. The Command Method	2
2.4. The CXXFile Builder	2
2.4.1. The CXXFile Method	2
2.5. The Install Builder	2
2.5.1. The Install Method	3
2.6. The InstallAs Builder	3
2.6.1. The InstallAs Method	3
2.7. The Library Builder	3
2.7.1. Linking With a Library	3
2.7.2. Creating a Library	3
2.7.3. The Library Builder	3
2.8. The Object Builder	4
2.8.1. The Object Method	4
2.9. The PCH Builder	4
2.9.1. The PCH Method	4
2.10. The PDF Builder	4
2.10.1. The PDF Method	4
2.11. The PDF Builder	4
2.11.1. The PostScript Method	4
2.12. The Program Builder	4
2.12.1. The Program Builder	4
2.13. The RES Builder	4
2.13.1. The RES Method	4
2.14. The SharedLibrary Builder	5
2.14.1. The SharedLibrary Method	5
2.15. The SharedObject Builder	5
2.15.1. The SharedObject Method	5
2.16. The StaticLibrary Builder	5
2.16.1. The StaticLibrary Method	5
2.17. The StaticObject Builder	5
2.17.1. The StaticObject Method	5
3. Errors Generated by SCons	6
3.1. X	6

1 Preface

x

1.1. Why SCons?

x

1.2. History

x

1.3. Conventions

x

1.4. Acknowledgements

x

1.5. Contact

x

2 Builder Reference

2.1. The Alias Builder

x

2.1.1. The Alias Method

x

2.2. The CFile Builder

x

2.2.1. The CFile Method

x

2.3. The Command Builder

x

2.3.1. The Command Method

x

2.4. The CXXFile Builder

x

2.4.1. The CXXFile Method

x

2.5. The Install Builder

x

2.5.1. The Install Method

X

2.6. The InstallAs Builder

X

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

X

2.8. The Object Builder

X

2.8.1. The Object Method

X

2.9. The PCH Builder

X

2.9.1. The PCH Method

X

2.10. The PDF Builder

X

2.10.1. The PDF Method

X

2.11. The PDF Builder

X

2.11.1. The PostScript Method

X

2.12. The Program Builder

X

2.12.1. The Program Builder

X

2.13. The RES Builder

X

2.13.1. The RES Method

X

2.14. The SharedLibrary Builder

x

2.14.1. The sharedLibrary Method

x

2.15. The SharedObject Builder

x

2.15.1. The sharedObject Method

x

2.16. The StaticLibrary Builder

x

2.16.1. The staticLibrary Method

x

2.17. The StaticObject Builder

x

2.17.1. The staticObject Method

x

3 Errors Generated by SCons

x

3.1. X

x