SCons Reference Manual 0.98.1

Steven Knight

SCons Reference Manual 0.98.1
by Steven Knight

Revision 2881 (2008/04/18 19:20:28) Edition
Published 2003
Copyright © 2003 Steven Knight

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 3
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 4
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 5
2.11. The PDF Builder 5
2.11.1. The `PostScript` Method 5
2.12. The Program Builder 5
2.12.1. The `Program` Builder 5
2.13. The RES Builder 5
2.13.1. The `RES` Method 5
2.14. The SharedLibrary Builder 5
2.14.1. The `SharedLibrary` Method 6
2.15. The SharedObject Builder 6
2.15.1. The `SharedObject` Method 6
2.16. The StaticLibrary Builder 6
2.16.1. The `StaticLibrary` Method 6
2.17. The StaticObject Builder 6
2.17.1. The `StaticObject` Method 6

3. `Construction Variable` Reference 7

3.1. AR 7

A. Errors Generated by SCons 8
A.1. X 8

Chapter 1. Preface

x

1.1. Why SCons?

x

1.2. History

x

1.3. Conventions

x

1.4. Acknowledgements

x

1.5. Contact

x

Chapter 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

Chapter 3. `Construction Variable` Reference

3.1. AR

X

Appendix A. Errors Generated by SCons

X

A.1. X

X