SCons Reference Manual 0.96.1

Steven Knight

SCons Reference Manual 0.96.1
by Steven Knight

Revision 0.96.1.D001 (2004/08/23 09:55:29) Edition
Published 2003
Copyright © 2003 by Steven Knight

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

Table of Contents

1. Preface **1**

Why SCons? 1
History 1
Conventions 1
Acknowledgements 1
Contact 1

2. Builder Reference **3**

The Alias Builder 3
The Alias Method 3
The CFile Builder 3
The CFile Method 3
The Command Builder 3
The Command Method 3
The CXXFile Builder 3
The CXXFile Method 3
The Install Builder 3
The Install Method 3
The InstallAs Builder 3
The InstallAs Method 4
The Library Builder 4
Linking With a Library 4
Creating a Library 4
The Library Builder 4
The Object Builder 4
The Object Method 4
The PCH Builder 5
The PCH Method 5
The PDF Builder 5
The PDF Method 5
The PDF Builder 5
The PostScript Method 5
The Program Builder 5
The Program Builder 5
The RES Builder 5
The RES Method 5
The SharedLibrary Builder 5
The SharedLibrary Method 6
The SharedObject Builder 6
The SharedObject Method 6
The StaticLibrary Builder 6
The StaticLibrary Method 6
The StaticObject Builder 6
The StaticObject Method 6

3. Construction Variable Reference **7**

AR 7

A. Errors Generated by SCons **9**

X 9

Chapter 1. Preface

X

Why SCons?

X

History

X

Conventions

X

Acknowledgements

X

Contact

X

Chapter 2. Builder Reference

The Alias Builder

X

The `Alias` Method

X

The CFile Builder

X

The `CFile` Method

X

The Command Builder

X

The `Command` Method

X

The CXXFile Builder

X

The `CXXFile` Method

X

The Install Builder

X

The `Install` Method

X

The InstallAs Builder

X

The `InstallAs` Method

X

The Library Builder

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
```

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
```

The `Library` Builder

X

The Object Builder

X

The `Object` Method

X

The PCH Builder

X

The `PCH` Method

X

The PDF Builder

X

The `PDF` Method

X

The PDF Builder

X

The `PostScript` Method

X

The Program Builder

X

The `Program` Builder

X

The RES Builder

X

The `RES` Method

X

The SharedLibrary Builder

X

The `SharedLibrary` Method

X

The SharedObject Builder

X

The `SharedObject` Method

X

The StaticLibrary Builder

X

The `StaticLibrary` Method

X

The StaticObject Builder

X

The `StaticObject` Method

X

Chapter 3. `Construction Variable` Reference

AR

X

Appendix A. Errors Generated by `SCons`

X

X

X