

# **SCons Reference Manual 0.94.1**

**Steven Knight**

**SCons Reference Manual 0.94.1**

by Steven Knight

Revision 0.94.1.D001 (2004/01/07 07:13:19) Edition

Published 2003

Copyright © 2003 by Steven Knight

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

# Table of Contents

<b>1. Preface .....</b>	<b>1</b>
Why sCons? .....	1
History .....	1
Conventions .....	1
Acknowledgements .....	1
Contact .....	1
<b>2. Builder Reference .....</b>	<b>3</b>
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
<b>3. Construction variable Reference .....</b>	<b>7</b>
AR .....	7
<b>A. Errors Generated by sCons .....</b>	<b>9</b>
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

