



# SCons 2.4.1

## Reference Manual

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version 2.4.1

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Publication date 2003

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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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## **1.3. Conventions**

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## **1.4. Acknowledgements**

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## **1.5. Contact**

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# **2** Builder Reference

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## **2.1. The Alias Builder**

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### **2.1.1. The Alias Method**

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## **2.2. The CFile Builder**

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### **2.2.1. The CFile 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

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**

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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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## **2.10. The PDF Builder**

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### **2.10.1. The PDF Method**

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## **2.11. The PDF Builder**

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## **2.12. The Program Builder**

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### **2.12.1. The Program Builder**

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## **2.13. The RES Builder**

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### **2.13.1. The RES Method**

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## 2.14. The SharedLibrary Builder

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### 2.14.1. The SharedLibrary Method

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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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### 2.16.1. The StaticLibrary Method

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## 2.17. The StaticObject Builder

X

### 2.17.1. The StaticObject Method

X

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# 3

# Errors Generated by SCons

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X

## 3.1. X

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