SCons tool "cpython" - Reference

Dirk Baechle

2010-07-28

Table of Contents

1. Interna	. 1
2. Builders	
2.1. InstallPython	
3. Variables	. 1

This reference lists all the variables that are used within the "cpython" tool, and the available builders. It is intended for SCons tool developers and core programmers, as a normal user you should read the manual instead.

1. Interna

Internally, the builder is based on the Install/InstallAs methods from SCons.Tool.install. It makes use of the basic builder's functions: installFunc(), and add_targets_to_INSTALLED_FILES().

2. Builders

2.1. InstallPython

The "InstallPython" method creates .pyc or .pyo files for .py source files and adds them to the list of targets along with the source files. They are later copied to the destination (target) directory.

Example:

```
env = Environment()
hello = File('hello.py')
env.InstallPython('/usr/local/bin/', hello)
env.Alias('install', '/usr/local/bin/')
```

3. Variables

CPYTHON_PYC Default value is 1, which means that the Python source files get compiled to .pyc files.

Set this variable to 0 in order to get optimized .pyo files, parallel to your installed

sources.

CPYTHON_EXE The path to the external Python executable, used for creating optimized .pyo files. De-

fault value is 'python'.

CPY- Additional flags for compiling optimized Python files (.pyo). The default is '-0'.

THON_PYO_FLAGS

CPY- The command arguments for compiling optimized Python files (.pyo). The default

THON_PYO_CMD value is '-c 'import sys,py_compile; [py_compile.compile(i) for

i in sys.argv[1:]]''.

CPYTHON_PYCOM The command line for compiling optimized Python files (.pyo). Default is

'\$CPYTHON_EXE \$CPYTHON_PYO_FLAGS \$CPYTHON_PYO_CMD'.

CPY- The message string for the 'CPYTHON_PYCOM' command. Default is 'Install

THON_PYCOMSTR file: "\$SOURCE" as "\$TARGET"'.

CPYTHON_SUFFIX Default value is '.py'. The suffix for Python source files.