Name

sconsign — print SCons signature file information

Synopsis

sconsign [*options*...] [*file*...]

DESCRIPTION

The **sconsign** command displays the contents of one or more signature database (*sconsign*) files used by the **scons** build tool.

By default, **sconsign** dumps the entire contents of the sconsign file(s). Without the verbose option, each entry is printed in the following format:

```
file: signature timestamp length
        implicit_dependency_1: signature timestamp length
        implicit_dependency_2: signature timestamp length
        ...
        action_signature [action string]
```

None is printed in place of any missing timestamp, *build signature* (**bsig**), or *content signature* (**csig**) values for any entry or any of its dependencies. If the entry has no implicit dependencies, or no build action, the lines are simply omitted.

The verbose option expands the display into a more human readable format.

By default, **sconsign** assumes that any `file` arguments that end with a `.dbm` suffix contains signature entries for more than one directory (that is, was specified by the **SConsignFile** function). Any `file` argument that ends in `.dblite` is assumed to be a traditional sconsign file containing the signature entries for a single directory. If neither of those is true, **sconsign** attempts to guess the format. If that does not work, an explicit format may be specified using the `-f` or `--format=` options.

If there are no `file` arguments, the name `.sconsign.dblite` is assumed.

OPTIONS

Various options control what information is printed and the format:

-a, --act, --action
    Prints the build action information for all entries or the specified entries.

-c, --csig
    Prints the content signature (csig) information for all entries or the specified entries.

-d *DIRECTORY*, --dir=*DIRECTORY*
    When the signatures are being read from a `.dbm` file, or the `-f dbm` or `--format=dbm` options are used, prints information about only the signatures for entries in the specified *DIRECTORY*.

-e *ENTRY*, --entry=*ENTRY*
    Prints information about only the specified *ENTRY*. Multiple `-e` options may be used, in which case information about each *ENTRY* is printed in the order in which the options are specified on the command line.

-f *FORMAT*, **--format=***FORMAT*
  The file(s) to be printed are in the specified *FORMAT*. Legal values are **dbm** (the DBM format used when the **SConsignFile** function is used) or **sconsign** (the default format used for an individual `.sconsign` file in each directory).

-h, --help
  Prints a help message and exits.

-i, --implicit
  Prints the list of cached implicit dependencies for all entries or for the specified entries.

--raw
  Prints a pretty-printed representation of the raw Python dictionary that holds build information about individual entries (both the entry itself and its implicit dependencies). An entry's build action is still printed in its usual format.

-r, --readable
  Prints timestamps in a human-readable string, enclosed in single quotes.

-t, --timestamp
  Prints the timestamp information for all entries or the specified entries.

-v, --verbose
  Prints labels identifying each field being printed.

ENVIRONMENT

SCONS_LIB_DIR
  Specifies the directory that contains the SCons Python module directory (e.g. `/home/aroach/scons-src/SCons`).

SEE ALSO

scons, the SCons User Guide at https://scons.org/doc/production/HTML/scons-user.html, the SCons source code on GitHub [https://github.com/SCons/scons].

AUTHORS

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