NAME

c89 - POSIX.2 C language compiler

SYNOPSIS

c89 [-cEgOs] [-D name[=value]] ... [-I directory] ... [-L directory] ... [-o outfile] [-U name] ... operand ...

DESCRIPTION

This is the name of the C language compiler as required by the IEEE Std 1003.2 ("POSIX.2") standard.

The **c89** compiler accepts the following options:

-c Suppress the link-edit phase of the compilation, and do not remove any object files that are produced.

-D name[=value]

Define name as if by a C-language #define directive. If no "=value" is given, a value of 1 will be used. Note that in order to request a translation as specified by IEEE Std 1003.2 ("POSIX.2") you need to define _POSIX_SOURCE either in the source or using this option. The -D option has lower precedence than the -U option. That is, if name is used in both a -U and a -D option, name will be undefined regardless of the order of the options. The -D option may be specified more than once.

- **-E** Copy C-language source files to the standard output, expanding all preprocessor directives; no compilation will be performed.
- **-g** Produce symbolic information in the object or executable files.

-I directory

Change the algorithm for searching for headers whose names are not absolute pathnames to look in the directory named by the *directory* pathname before looking in the usual places. Thus, headers whose names are enclosed in double-quotes ("") will be searched for first in the directory of the file with the **#include** line, then in directories named in **-I** options, and last in the usual places. For headers whose names are enclosed in angle brackets (<>>), the header will be searched for only in directories named in **-I** options and then in the usual places. Directories named in **-I** options shall be searched in the order specified. The **-I** option may be specified more than once.

-L directory

Change the algorithm of searching for the libraries named in the -1 objects to look in the directory named by the *directory* pathname before looking in the usual places. Directories named in -L

options will be searched in the order specified. The -L option may be specified more than once.

-o outfile

Use the pathname *outfile*, instead of the default *a.out*, for the executable file produced.

- **-O** Optimize the compilation.
- -s Produce object and/or executable files from which symbolic and other information not required for proper execution has been removed (stripped).

-U name

Remove any initial definition of *name*. The **-U** option may be specified more than once.

An operand is either in the form of a pathname or the form -1 library. At least one operand of the pathname form needs to be specified. Supported operands are of the form:

file.c A C-language source file to be compiled and optionally linked. The operand must be of this form if the **-c** option is used.

file.a A library of object files, as produced by ar(1), passed directly to the link editor.

file.o An object file produced by **c89 -c**, and passed directly to the link editor.

-l *library* Search the library named *liblibrary.a*. A library will be searched when its name is encountered, so the placement of a **-l** operand is significant.

SEE ALSO

ar(1), c99(1), cc(1)

STANDARDS

The **c89** utility is believed to comply with IEEE Std 1003.2 ("POSIX.2").