

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 **-l** 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 **-I** 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.

-I *library* Search the library named *liblibrary.a*. A library will be searched when its name is encountered, so the placement of a **-I** 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").