```
NAME
```

CC - C++ compiler

SYNOPSIS

CC [option] ... file ...

DESCRIPTION

CC is a C++ compiler. Arguments ending with

- are taken to be C++ source programs; they are compiled, and each object program is left in the file whose name is that of the source with .o substituted for .c.
- .s are taken to be assembly source programs and assembled, producing .o files.

CC uses /lib/cpp for pre-processing, /usr/bin/cfront for syntax and type checking, and cc(1) for code generation, etc. The following options are interpreted by CC. See ld(1) for loader options, as(1) for assembler options, and cc(1) for code generation options.

- -C Prevent cpp and cfront from removing comments.
- -E Run only cpp on the .c files, and send the result to standard output.
- -F Run only cpp and cfront on the .c files, and send the result to standard output.
- -Fc Like the -F option, but the output is C source code suitable as a .c file for cc(1).
- -.suffix

Instead of using standard output for the -E, -F or -Fc options place the output from each .c file on a file with the corresponding .suffix.

- +E Use 'old C' scope rules for non-local names.
- +V Accept old style, 'C with classes', syntax; use the /usr/include directory #include files. +V implies +E.
- +S 'Spy' on cfront; that is, print some information on siderr.
- +d Produce code which is better suited for debugging. In particular, do not inline expand.

+xname

Take size and alignment information from file name for cross compilation.

FILES

| file.c | input file |
|--------|---------------|
| file.i | cfront output |
| file.o | object file |
| a.out | linked output |

\$cppC C preprocessor (default: /lib/cpp)
\$cfrontC C++ front-end (default: /usr/bin/cfront)

\$ccC C compiler (default: /bin/cc) /lib/libc.a standard C library; see (3)

/lib/libC.a C++ library

/usr/include/CC standard directory for #include files

/usr/include standard directory for #include files when the +V option is used

SEE ALSO

-- -- 1

B. W. Kernighan and D. M. Ritchie, The C programming language, Prentice-Hall 1978.

Bjarne Stroustrup, A C++ Tutorial, AT&T Bell Laboratories, C++ Release E Documentation, November 1984.

Bjarne Stroustrup, The C++ Programming Language - Reference AT&T Bell Laboratories, C++ Release E Documentation, November 1984.

cc(1), ld(1), as(1)

DIAGNOSTICS

The diagnostics produced by CC itself are intended to be self-explanatory. Occasional messages may be produced by the assembler or loader. No messages should be produced by cc(1).

BUGS

This command should be called cc.

/usr/include/CC is less complete than /usr/include.

Constructors and destructors are not called for a static objects.

There is a (temporary) hole in the C++ type system allowing C++ programs to use 'old C' libraries. When a name is overloaded the first function of that name (only) can be linked to a library compiled by cc. Thus, the declaration

overload read(int,char*,int), read(vector*);

will allow the system call read(2) to be used together with user defined functions of the same name. Use of this facility may lead to unexpected behavior. For example, had the other read() been declared first, or had the system's read() not been declared, then the user's read() would have been called by library functions like scanf(3).

To declare an auto pointer to function you must use the auto keyword. For example:

f() { auto int (*fp)(char*); }