NAME

c++filt − Demangle C++ and Java symbols.

SYNOPSIS

c++filt [**−_**|**−−strip−underscores**]
[**−j**|**−−java**]
[**−n**|**−−no−strip−underscores**]
[**−s** *format*|**−−format**=*format*]
[**−−help**] [**−−version**] [*symbol*...]

DESCRIPTION

The C++ and Java languages provides function overloading, which means that you can write many functions with the same name (providing each takes parameters of different types). All C++ and Java function names are encoded into a low-level assembly label (this process is known as *mangling*). The **c++filt** [1] program does the inverse mapping: it decodes (*demangles*) low-level names into user-level names so that the linker can keep these overloaded functions from clashing.

Every alphanumeric word (consisting of letters, digits, underscores, dollars, or periods) seen in the input is a potential label. If the label decodes into a C++ name, the C++ name replaces the low-level name in the output.

You can use **c++filt** to decipher individual symbols:

```
        c++filt <symbol>
```

If no *symbol* arguments are given, **c++filt** reads symbol names from the standard input and writes the demangled names to the standard output. All results are printed on the standard output.

OPTIONS

−_
−−strip−underscores

On some systems, both the C and C++ compilers put an underscore in front of every name. For example, the C name `foo` gets the low-level name `_foo`. This option removes the initial underscore. Whether **c++filt** removes the underscore by default is target dependent.

−j
−−java

Prints demangled names using Java syntax. The default is to use C++ syntax.

−n
−−no−strip−underscores

Do not remove the initial underscore.

−s *format*
−−format=*format*

c++filt can decode various methods of mangling, used by different compilers. The argument to this option selects which method it uses:

`auto`
Automatic selection based on executable (the default method)

`gnu`
the one used by the GNU C++ compiler (g++)

`lucid`
the one used by the Lucid compiler (lcc)

`arm`
the one specified by the C++ Annotated Reference Manual

`hp` the one used by the HP compiler (aCC) `edg`

the one used by the EDG compiler

`gnu-v3`

the one used by the GNU C++ compiler (g++) with the V3 ABI.

`java`

the one used by the GNU Java compiler (gcj)

`gnat`

the one used by the GNU Ada compiler (GNAT).

--help

Print a summary of the options to **c++filt** and exit.

--version

Print the version number of **c++filt** and exit.

FOOTNOTES

1. MS-DOS does not allow **+** characters in file names, so on MS-DOS this program is named **c++filt**.

SEE ALSO

the Info entries for *binutils*.

COPYRIGHT