NAME

cbrt, cbrtf, cbrtl - cube root function

SYNOPSIS

```
#include <math.h>
double cbrt(double x);
float cbrtf(float x);
long double cbrtl(long double x);
Link with -lm.
```

Feature Test Macro Requirements for glibc (see **feature_test_macros**(7)):

cbrt():

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
     || XOPEN SOURCE >= 500
     /* Since glibc 2.19: */_DEFAULT_SOURCE
     | | /* Glibc versions <= 2.19: */ BSD_SOURCE | _SVID_SOURCE
cbrtf(), cbrtl():
   _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
      /* Since glibc 2.19: */_DEFAULT_SOURCE
     | /* Glibc versions <= 2.19: */ BSD_SOURCE | _SVID_SOURCE
```

DESCRIPTION

These functions return the (real) cube root of x. This function cannot fail; every representable real value has a representable real cube root.

RETURN VALUE

These functions return the cube root of x.

If x is +0, -0, positive infinity, negative infinity, or NaN, x is returned.

ERRORS

No errors occur.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
cbrt(), cbrtf(), cbrtl()	Thread safety	MT-Safe

CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

SEE ALSO

pow(3), sqrt(3)

COLOPHON

This page is part of release 5.02 of the Linux man-pages project. A description of the project, information latest version of this can be found about reporting bugs, and the page, https://www.kernel.org/doc/man-pages/.