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: */ _DE-FAULT_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 4.16 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man−pages/.