NAME

cbrt, cbrtf, cbrtl – cube root function

LIBRARY

Math library (libm, -lm)

SYNOPSIS

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

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

```
chrt()
```

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L || _XOPEN_SOURCE >= 500 || /* Since glibc 2.19: */_DEFAULT_SOURCE || /* glibc <= 2.19: */_BSD_SOURCE || _SVID_SOURCE |

cbrtf(), cbrtl(): _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L || /* Since glibc 2.19: */_DEFAULT_SOURCE || /* glibc <= 2.19: */_BSD_SOURCE || _SVID_SOURCE || /* glibc <= 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

STANDARDS

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

SEE ALSO

pow(3), **sqrt**(3)