



## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'cbrtl.3' command**

**\$ man cbrtl.3**

CBRT(3)                   Linux Programmer's Manual                   CBRT(3)

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 5.10 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/>.