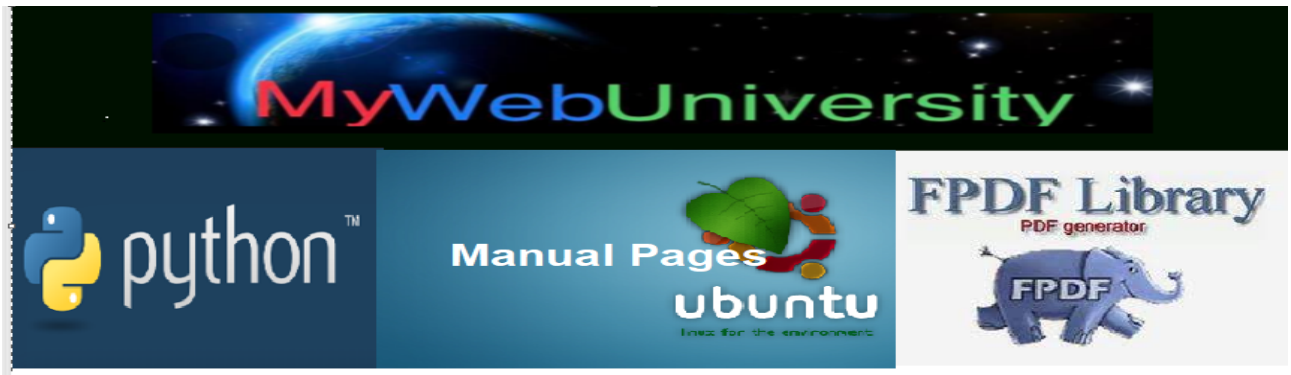


***Full credit is given to the above companies including the OS that this PDF file was generated!***

## *Linux Ubuntu 26.04 Manual Pages on command 'cbrtl.3'*

***$ man cbrtl.3***

cbrt(3) Library Functions Manual cbrt(3)

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)):

cbrt():

```
_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
```

DESCRIPTION

These functions return the (real) cube root of x. This function cannot fail; every repre?

sentable real value has a real cube root, and rounding it to a representable value never

causes overflow nor underflow.

## 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

C11, POSIX.1-2008.

## HISTORY

GNU, C99, POSIX.1-2001.

## SEE ALSO

pow(3), sqrt(3)