Rocky Enterprise Linux 9.2 Manual Pages on command 'sqrtl.3'

$ man sqrtl.3

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

NAME

   sqrt, sqrtf, sqrtl - square root function

SYNOPSIS

   #include <math.h>

   double sqrt(double x);

   float sqrtf(float x);

   long double sqrtl(long double x);

   Link with -lm.

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

   sqrtf(), sqrtl():

      _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 nonnegative square root of x.

RETURN VALUE

   On success, these functions return the square root of x.

If x is a NaN, a NaN is returned.

If x is +0 (-0), +0 (-0) is returned.

If x is positive infinity, positive infinity is returned.

If x is less than -0, a domain error occurs, and a NaN is returned.

ERRORS

See math_error(7) for information on how to determine whether an error

has occurred when calling these functions.

The following errors can occur:

Domain error: x less than -0

errno is set to EDOM. An invalid floating-point exception

(FE_INVALID) is raised.

ATTRIBUTES

For an explanation of the terms used in this section, see at?

tributes(7).

???

?Interface   ? Attribute   ? Value ?

???

?sqrt(), sqrtf(), sqrtl() ? Thread safety ? MT-Safe ?

???

CONFORMING TO

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

The variant returning double also conforms to SVr4, 4.3BSD, C89.

SEE ALSO

cbrt(3), csqrt(3), hypot(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/.

2017-09-15   SQRT(3)