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

$ man cosf.3

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

NAME

   cos, cosf, cosl - cosine function

SYNOPSIS

   #include <math.h>

   double cos(double x);

   float cosf(float x);

   long double cosl(long double x);

   Link with -lm.

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

   cosf(), cosl():

      _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 cosine of x, where x is given in radians.

RETURN VALUE

   On success, these functions return the cosine of x.

   If x is a NaN, a NaN is returned.

   If x is positive infinity or negative infinity, a domain error occurs, and a NaN is re?

   turned.

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 is an infinity

errno is set to EDOM (but see BUGS). An invalid floating-point exception (FE_IN?

VALID) is raised.

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

???

?Interface   ? Attribute   ? Value   ?

???

?cos(), cosf(), cosl() ? Thread safety ? MT-Safe ?

???

CONFORMING TO

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

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

BUGS

Before version 2.10, the glibc implementation did not set errno to EDOM when a domain er?

ror occurred.

SEE ALSO

acos(3), asin(3), atan(3), atan2(3), ccos(3), sin(3), sincos(3), tan(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/.

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