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

$ man acosf.3

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

NAME

    acos, acosf, acosl - arc cosine function

SYNOPSIS

    #include <math.h>

    double acos(double x);

    float acosf(float x);

    long double acosl(long double x);

    Link with -lm.

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

    acosf(), acosl():

        _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

           || /* Since glibc 2.19: */ _DEFAULT_SOURCE

           || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

DESCRIPTION

    These functions calculate the arc cosine of x; that is the value whose cosine is x.

RETURN VALUE

    On success, these functions return the arc cosine of x in radians; the return value is in

    the range [0, pi].

    If x is a NaN, a NaN is returned.

    If x is +1, +0 is returned.

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

    turned.

If x is outside the range [-1, 1], 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 is outside the range [-1, 1]

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 attributes(7).

???

?Interface   ? Attribute   ? Value   ?

???

?acos(), acosf(), acosl() ? 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

asin(3), atan(3), atan2(3), cacos(3), cos(3), sin(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/.