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

***$ 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 returned.

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 at? tributes(7).

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?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/.

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