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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'acosh.3' command

\$ man acosh.3

ACOSH(3) Linux Programmer's Manual ACOSH(3) NAME acosh, acoshf, acoshl - inverse hyperbolic cosine function **SYNOPSIS** #include <math.h> double acosh(double x); float acoshf(float x); long double acoshl(long double x); Link with -lm. Feature Test Macro Requirements for glibc (see feature_test_macros(7)): acosh(): _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L || _XOPEN_SOURCE >= 500 || /* Since glibc 2.19: */ _DEFAULT_SOURCE || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE acoshf(), acoshl(): _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L || /* Since glibc 2.19: */ _DEFAULT_SOURCE || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE These functions calculate the inverse hyperbolic cosine of x; that is

DESCRIPTION

the value whose hyperbolic cosine is x.

Page 1/2 **RETURN VALUE**

On success, these functions return the inverse hyperbolic cosine of x.

If x is a NaN, a NaN is returned.

If x = +1, +0 is returned.

If x is positive infinity, positive infinity is returned.

If x is less than 1, a domain error occurs, and the functions return a NaN.

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 less than 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).

?Interface ? Attribute ? Value ?

?acosh(), acoshf(), acoshl() ? Thread safety ? MT-Safe ?

CONFORMING TO

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

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

SEE ALSO

asinh(3), atanh(3), cacosh(3), cosh(3), sinh(3), tanh(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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