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

\$ man casinh.3

CASINH(3)

Linux Programmer's Manual

CASINH(3)

NAME

casinh, casinhl, casinhl - complex arc sine hyperbolic

SYNOPSIS

#include <complex.h>

double complex casinh(double complex z);

float complex casinhf(float complex z);

long double complex casinhl(long double complex z);

Link with -lm.

DESCRIPTION

These functions calculate the complex arc hyperbolic sine of z. If y = casinh(z), then

z = csinh(y). The imaginary part of y is chosen in the interval [-pi/2,pi/2].

One has:

casinh(z) = clog(z + csqrt(z * z + 1))

VERSIONS

These functions first appeared in glibc in version 2.1.

ATTRIBUTES

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

?Interface

? Attribute ? Value ?

?casinh(), casinhf(), casinhl() ? Thread safety ? MT-Safe ?

CONFORMING TO

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

SEE ALSO

asinh(3), cabs(3), cimag(3), csinh(3), complex(7)

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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