NAME

csinh, csinhl - complex hyperbolic sine

SYNOPSIS

#include <complex.h>

double complex csinh(double complex z);
float complex csinhf(float complex z);
long double complex csinhl(long double complex z);

Link with -lm.

DESCRIPTION

These functions calculate the complex hyperbolic sine of z.

The complex hyperbolic sine function is defined as:

$$csinh(z) = (exp(z)-exp(-z))/2$$

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
csinh(), csinhf(), csinhl()	Thread safety	MT-Safe

CONFORMING TO

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

SEE ALSO

cabs(3), casinh(3), ccosh(3), ctanh(3), complex(7)

COLOPHON

This page is part of release 5.02 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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