NAME

csinh, csinhf, csinhl - complex hyperbolic sine

LIBRARY

Math library (libm, -lm)

SYNOPSIS

#include <complex.h>

double complex csinh(double complex z);

float complex csinhf(float complex z);

long double complex csinhl(long double complex z);

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 were added in glibc 2.1.

ATTRIBUTES

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

Interface	Attribute	Value
csinh(), csinhl()	Thread safety	MT-Safe

STANDARDS

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

SEE ALSO

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