NAME

casin, casinf, casinl - complex arc sine

SYNOPSIS

#include <complex.h>

double complex casin(double complex *z***);**
float complex casinf(float complex *z***);**
long double complex casinl(long double complex *z***);**

Link with *-lm*.

DESCRIPTION

The **casin**() function calculates the complex arc sine of *z*. If *y = casin(z)*, then *z = csin(y)*. The real part of *y* is chosen in the interval [-pi/2,pi/2].

One has:

casin(z) = -i clog(iz + csqrt(1 - z * z))

VERSIONS

These functions first appeared in glibc in version 2.1.

CONFORMING TO

C99.

SEE ALSO

clog(3), csin(3), complex(7)

COLOPHON

This page is part of release 3.74 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 http://www.kernel.org/doc/man-pages/.