NAME

casin, casinf, casinl − complex arc sine

LIBRARY

Math library (*libm*, −*lm*)

SYNOPSIS

#include <complex.h>

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

DESCRIPTION

These functions calculate 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 were added in glibc 2.1.

ATTRIBUTES

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

Interface	Attribute	Value
casin(), **casinf**(), **casinl**()	Thread safety	MT-Safe

STANDARDS

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

SEE ALSO

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