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

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

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

COLOPHON
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