# 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

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