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Linux Ubuntu 26.04 Manual Pages on command 'casinl.3'

$ man casinl.3

casin(3) Library Functions Manual casin(3)

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))
```

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

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

SEE ALSO

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