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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'casinl.3'***

#### ***\$ man casinl.3***

CASIN(3)                      Linux Programmer's Manual                      CASIN(3)

#### NAME

casin, casinl, 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  $y = \text{casin}(z)$ , then  $z = \text{csin}(y)$ . The real part of  $y$  is chosen in the interval  $[-\pi/2, \pi/2]$ .

One has:

$$\text{casin}(z) = -i \log(iz + \text{csqrt}(1 - z * z))$$

#### VERSIONS

These functions first appeared in glibc in version 2.1.

#### ATTRIBUTES

For an explanation of the terms used in this section, see at?

tributes(7).

??

?Interface            ? Attribute   ? Value ?

??

?casin(), casin(), casinl() ? Thread safety ? MT-Safe ?

??

CONFORMING TO

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

SEE ALSO

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

COLOPHON

This page is part of release 5.10 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 <https://www.kernel.org/doc/man-pages/>.