



*Full credit is given to the above companies including the OS that this PDF file was generated!*

## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'casinl.3' command**

### **\$ 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(), casinl(), 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/>.

2015-04-19

CASIN(3)