



Rocky Enterprise Linux 9.2 Manual Pages on command 'casinf.3'

C:\>man casinf.3

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

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 $y = \text{casin}(z)$, 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 attributes(7).

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?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

This page is part of release 5.05 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/>.

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