

NAME

csin, csinf, csinl - complex sine function

SYNOPSIS

```
#include <complex.h>
```

```
double complex csin(double complex z);
```

```
float complex csinf(float complex z);
```

```
long double complex csinl(long double complex z);
```

Link with *-lm*.

DESCRIPTION

The complex sine function is defined as:

$$\text{csin}(z) = (\exp(i * z) - \exp(-i * z)) / (2 * i)$$
VERSIONS

These functions first appeared in glibc in version 2.1.

CONFORMING TO

C99.

SEE ALSO

[cabs\(3\)](#), [casin\(3\)](#), [ccos\(3\)](#), [ctan\(3\)](#), [complex\(7\)](#)

COLOPHON

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.