

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

These functions calculate the complex sine of z .

The complex sine function is defined as:

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

VERSIONS

These functions first appeared in glibc in version 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
<code>csin()</code> , <code>csinf()</code> , <code>csinl()</code>	Thread safety	MT-Safe

CONFORMING TO

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

SEE ALSO

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

COLOPHON

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