NAME

csin, csinf, csinl − complex sine function

LIBRARY

Math library (*libm*, *−lm*)

SYNOPSIS

#include <complex.h>

double complex csin(double complex *z***);**
float complex csinf(float complex *z***);**
long double complex csinl(long double complex *z***);**

DESCRIPTION

These functions calculate the complex sine of *z*.

The complex sine function is defined as:

```
csin(z) = (exp(i * z) − exp(−i * z)) / (2 * i)
```

VERSIONS

These functions were added in glibc 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
csin(), **csinf**(), **csinl**()	Thread safety	MT-Safe

STANDARDS

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

SEE ALSO

cabs(3), **casin**(3), **ccos**(3), **ctan**(3), **complex**(7)