



Linux Ubuntu 26.04 Manual Pages on command 'sinl.3'

\$ man sinl.3

sin(3) Library Functions Manual sin(3)

NAME

sin, sinf, sinl - sine function

LIBRARY

Math library (libm, -lm)

SYNOPSIS

```
#include <math.h>

double sin(double x);

float sinf(float x);

long double sinl(long double x);
```

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

```
sinf(), sinl():

    _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
    || /* Since glibc 2.19: */ _DEFAULT_SOURCE
    || /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

These functions return the sine of x, where x is given in radians.

RETURN VALUE

On success, these functions return the sine of x.

If x is a NaN, a NaN is returned.

If x is positive infinity or negative infinity, a domain error occurs, and a NaN is returned.

ERRORS

See `math_error(7)` for information on how to determine whether an error has occurred when calling these functions.

The following errors can occur:

Domain error: `x` is an infinity

`errno` is set to `EDOM` (but see `BUGS`). An invalid floating-point exception (`FE_INVALID`) is raised.

ATTRIBUTES

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

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? Interface ? Attribute ? Value ?

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? `sin()`, `sinf()`, `sinl()` ? Thread safety ? MT-Safe ?

??

STANDARDS

C11, POSIX.1-2008.

HISTORY

C99, POSIX.1-2001.

The variant returning `double` also conforms to SVr4, 4.3BSD, C89.

BUGS

Before `glibc 2.10`, the `glibc` implementation did not set `errno` to `EDOM` when a domain error occurred.

SEE ALSO

`acos(3)`, `asin(3)`, `atan(3)`, `atan2(3)`, `cos(3)`, `csin(3)`, `sincos(3)`, `tan(3)`

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`sin(3)`