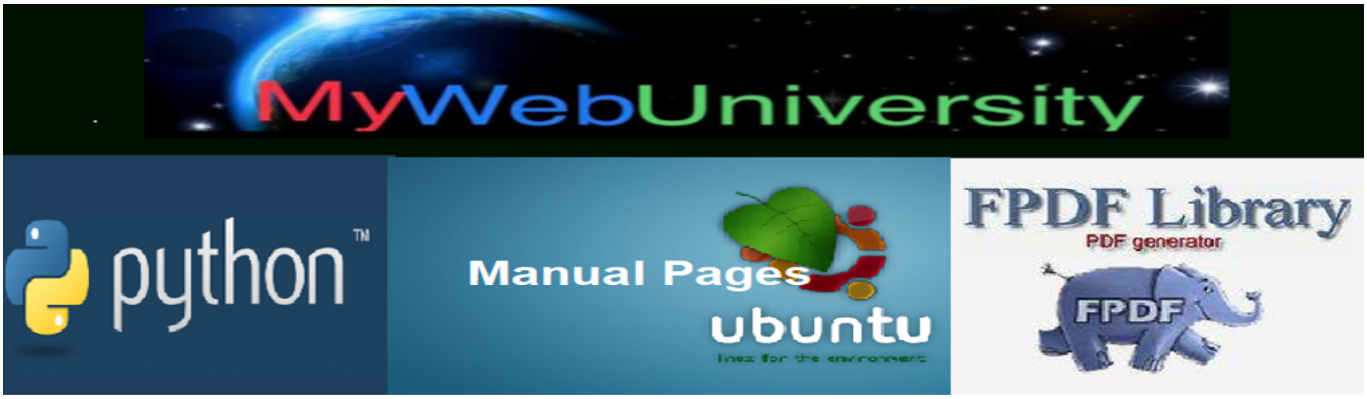

Rocky Enterprise Linux 9.2 Manual Pages on command 'sinf.3'

$ man sinf.3

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

NAME

sin, sinf, sinl - sine function

SYNOPSIS

```
#include <math.h>

double sin(double x);

float sinf(float x);

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

Link with -lm.

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 versions <= 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 re?

turned.

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_IN?

VALID) is raised.

ATTRIBUTES

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

??

?Interface ? Attribute ? Value ?

??

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

??

CONFORMING TO

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

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

BUGS

Before version 2.10, the glibc implementation did not set errno to EDOM when a domain er?

ror occurred.

SEE ALSO

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

COLOPHON

This page is part of release 5.10 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/.

2017-09-15 SIN(3)