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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'asinf.3' command

$ man asinf.3

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

NAME

asin, asinf, asinl - arc sine function

SYNOPSIS

```
#include <math.h>

double asin(double x);

float asinf(float x);

long double asinl(long double x);
```

Link with -lm.

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

asinf(), asinl():

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

DESCRIPTION

These functions calculate the principal value of the arc sine of x;

that is the value whose sine is x.

RETURN VALUE

On success, these functions return the principal value of the arc sine

of x in radians; the return value is in the range [-pi/2, pi/2].

If x is a NaN, a NaN is returned.

If x is +0 (-0), +0 (-0) is returned.

If x is outside the range [-1, 1], 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 outside the range [-1, 1]

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

ATTRIBUTES

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

?Interface	? Attribute	? Value ?
?asin(), asinf(), asinl()	? Thread safety	? MT-Safe ?

CONFORMING TO

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

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

SEE ALSO

acos(3), atan(3), atan2(3), casin(3), cos(3), sin(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/.

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