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# Rocky Enterprise Linux 9.2 Manual Pages on command 'asinf.3'

# \$ 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(), asinI():

\_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 Page 1/2

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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