



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

\$ man asin.3

asin(3) Library Functions Manual asin(3)

NAME

asin, asinf, asinl - arc sine function

LIBRARY

Math library (libm, -lm)

SYNOPSIS

```
#include <math.h>

double asin(double x);

float asinf(float x);

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

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 <= 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.

ERRORS

The following errors can occur:

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

ATTRIBUTES

[illegible][illegible][illegible]

STANDARDS

HISTORY

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

SEE ALSO

Linux man-pages 6.17

2026-02-08

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