



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

\$ man asinl.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

C11, POSIX.1-2008.

HISTORY

C99, POSIX.1-2001.

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)

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2026-02-08

 $\arcsin(3)$