

NAME

asin, **asinf**, **asinl** - arc sine functions

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

#include <math.h>

double

asin(*double x*);

float

asinf(*float x*);

long double

asinl(*long double x*);

DESCRIPTION

The **asin**(), **asinf**(), and **asinl**() functions compute the principal value of the arc sine of x .

RETURN VALUES

These functions return the arc sine in the range $[-\pi/2, +\pi/2]$ radians. If:

$|x| > 1$

asin(x) raises an invalid exception and returns an NaN.

SEE ALSO

acos(3), **atan**(3), **atan2**(3), **cos**(3), **cosh**(3), **fenv**(3), **math**(3), **sin**(3), **sinh**(3), **tan**(3), **tanh**(3)

STANDARDS

The **asin**(), **asinf**(), and **asinl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").