

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").