

NAME

asinh, **asinhf**, **asinhl** - inverse hyperbolic sine functions

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

```
#include <math.h>
```

double

```
asinh(double x);
```

float

```
asinhf(float x);
```

long double

```
asinhl(long double x);
```

DESCRIPTION

The **asinh()**, **asinhf()**, and **asinhl()** functions compute the inverse hyperbolic sine of the real argument *x*.

For a discussion of error due to roundoff, see *math(3)*.

RETURN VALUES

These functions return the inverse hyperbolic sine of *x*.

SEE ALSO

acosh(3), *atanh(3)*, *exp(3)*, *math(3)*

HISTORY

The **asinh()**, **asinhf()**, and **asinhl()** functions appeared in 4.3BSD, FreeBSD 2.0, and FreeBSD 10.0, respectively.