

NAME

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

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

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

double

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

float

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

long double

```
asinhf(long double x);
```

DESCRIPTION

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