NAME

asinh, asinhf, asinhl – inverse hyperbolic sine function

SYNOPSIS

#include <math.h>

DESCRIPTION

These functions calculate the inverse hyperbolic sine of x; that is the value whose hyperbolic sine is x.

RETURN VALUE

On success, these functions return the inverse hyperbolic sine of x.

If x is a NaN, a NaN is returned.

If x is +0 (-0), +0 (-0) is returned.

If x is positive infinity (negative infinity), positive infinity (negative infinity) is returned.

|| /* Glibc versions <= 2.19: */ BSD_SOURCE || SVID_SOURCE

ERRORS

No errors occur.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
asinh(),asinhf(),asinhl()	Thread safety	MT-Safe

CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

The variant returning double also conforms to SVr4, 4.3BSD.

SEE ALSO

```
acosh(3), atanh(3), casinh(3), cosh(3), sinh(3), tanh(3)
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COLOPHON

This page is part of release 5.02 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.