Red Hat Enterprise Linux Release 9.2 Manual Pages on 'asinhf.3' command

$ man asinhf.3

ASINH(3)   Linux Programmer's Manual   ASINH(3)

NAME

    asinh, asinhf, asinhl - inverse hyperbolic sine function

SYNOPSIS

    #include <math.h>

    double asinh(double x);

    float asinhf(float x);

    long double asinhl(long double x);

    Link with -lm.

  Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

    asinh():

      _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

        || _XOPEN_SOURCE >= 500

        || /* Since glibc 2.19: */ _DEFAULT_SOURCE

        || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

    asinhf(), asinhl():

      _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

        || /* Since glibc 2.19: */ _DEFAULT_SOURCE

        || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

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 (nega‐

tive infinity) is returned.

ERRORS

No errors occur.

ATTRIBUTES

For an explanation of the terms used in this section, see at‐

tributes(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)

COLOPHON

This page is part of release 5.10 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/.

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