

**NAME**

**sinh**, **sinhf**, **sinhl** - hyperbolic sine function

**LIBRARY**

Math Library (libm, -lm)

**SYNOPSIS**

**#include** <math.h>

*double*

**sinh**(*double x*);

*float*

**sinhf**(*float x*);

*long double*

**sinhl**(*long double x*);

**DESCRIPTION**

The **sinh**(), **sinhf**(), and **sinhl**() functions compute the hyperbolic sine of  $x$ .

**SEE ALSO**

acos(3), asin(3), atan(3), atan2(3), cos(3), cosh(3), csinh(3), math(3), sin(3), tan(3), tanh(3)

**STANDARDS**

The **sinh**() function conforms to ISO/IEC 9899:1990 ("ISO C90").

**HISTORY**

The **sinh**() function first appeared in Version 7 AT&T UNIX.