

**NAME**

**cosh**, **coshf**, **coshl** - hyperbolic cosine functions

**LIBRARY**

Math Library (libm, -lm)

**SYNOPSIS**

**#include** <math.h>

*double*

**cosh**(*double x*);

*float*

**coshf**(*float x*);

*long double*

**coshl**(*long double x*);

**DESCRIPTION**

The **cosh**(), **coshf**(), and **coshl**() functions compute the hyperbolic cosine of  $x$ .

**SEE ALSO**

acos(3), asin(3), atan(3), atan2(3), ccosh(3), cos(3), math(3), sin(3), sinh(3), tan(3), tanh(3)

**STANDARDS**

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

**HISTORY**

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