

**NAME**

**scalbln**, **scalblnf**, **scalblnl**, **scalbn**, **scalbnf**, **scalbnl** - adjust exponent

**LIBRARY**

Math Library (libm, -lm)

**SYNOPSIS**

**#include** <math.h>

*double*

**scalbln**(*double x*, *long n*);

*float*

**scalblnf**(*float x*, *long n*);

*long double*

**scalblnl**(*long double x*, *long n*);

*double*

**scalbn**(*double x*, *int n*);

*float*

**scalbnf**(*float x*, *int n*);

*long double*

**scalbnl**(*long double x*, *int n*);

**DESCRIPTION**

These routines return  $x \cdot (2^{**n})$  computed by exponent manipulation.

**SEE ALSO**

ieee(3), math(3)

**STANDARDS**

These routines conform to ISO/IEC 9899:1999 ("ISO C99"), and they implement the Scalb function recommended by IEEE Std 754-1985.

**HISTORY**

The **scalbn**() and **scalbnf**() functions appeared in 4.3BSD and FreeBSD 2.0, respectively. The **scalbln**() and **scalblnf**() functions first appeared in FreeBSD 5.3, and **scalblnl**() and **scalbnl**() in FreeBSD 6.0.