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 $x*(2**n)$ 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 **scalbln**() in FreeBSD 6.0.