

NAME

ldexp, **ldexpf**, **ldexpl** - multiply floating-point number by integral power of 2

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

#include <math.h>

double

ldexp(*double x*, *int exp*);

float

ldexpf(*float x*, *int exp*);

long double

ldexpl(*long double x*, *int exp*);

DESCRIPTION

The **ldexp**(), **ldexpf**(), and **ldexpl**() functions multiply a floating-point number by an integral power of 2.

RETURN VALUES

These functions return the value of *x* times 2 raised to the power *exp*.

SEE ALSO

frexp(3), math(3), modf(3)

STANDARDS

The **ldexp**(), **ldexpf**(), and **ldexpl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").