

NAME

nearbyint, **nearbyintf**, **nearbyintl**, **rint**, **rintf**, **rintl** - round to integral value in floating-point format

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

#include <math.h>

double

nearbyint(*double x*);

float

nearbyintf(*float x*);

long double

nearbyintl(*long double x*);

double

rint(*double x*);

float

rintf(*float x*);

long double

rintl(*long double x*);

DESCRIPTION

The **rint**(), **rintf**(), and **rintl**() functions return the integral value nearest to *x* according to the prevailing rounding mode. These functions raise an inexact exception when the original argument is not an exact integer.

The **nearbyint**(), **nearbyintf**(), and **nearbyintl**() functions perform the same operation, except that they do not raise an inexact exception.

SEE ALSO

abs(3), **ceil**(3), **fabs**(3), **fenv**(3), **floor**(3), **ieee**(3), **lrint**(3), **lround**(3), **math**(3), **round**(3)

STANDARDS

These functions conform to ISO/IEC 9899:1999 ("ISO C99").

HISTORY

A **rint()** function appeared in Version 6 AT&T UNIX. The **nearbyint()** and **nearbyintf()** functions appeared in FreeBSD 5.3, and the long double variants were first available in FreeBSD 8.0.