



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'lroundl.3'***

**C:\>man lroundl.3**

LROUND(3)                      Linux Programmer's Manual                      LROUND(3)

### NAME

lround, lroundf, lroundl, llround, llroundf, llroundl - round to nearest integer

### SYNOPSIS

```
#include <math.h>
```

```
long int lround(double x);
```

```
long int lroundf(float x);
```

```
long int lroundl(long double x);
```

```
long long int llround(double x);
```

```
long long int llroundf(float x);
```

```
long long int llroundl(long double x);
```

Link with -lm.

Feature Test Macro Requirements for glibc (see `feature_test_macros(7)`):

All functions shown above:

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

### DESCRIPTION

These functions round their argument to the nearest integer value, rounding halfway cases away from zero, regardless of the current rounding direction (see `fenv(3)`).

Note that unlike the `round(3)` and `ceil(3)`, functions, the return type of these functions differs from that of their arguments.

### RETURN VALUE

These functions return the rounded integer value.

If `x` is a NaN or an infinity, or the rounded value is too large to be stored in a long (long long in the case of the `ll*` functions), then a domain error occurs, and the return value is unspecified.

## ERRORS

See `math_error(7)` for information on how to determine whether an error has occurred when calling these functions.

The following errors can occur:

Domain error: `x` is a NaN or infinite, or the rounded value is too large

An invalid floating-point exception (`FE_INVALID`) is raised.

These functions do not set `errno`.

## VERSIONS

These functions first appeared in `glibc` in version 2.1.

## ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

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?Interface                    ? Attribute    ? Value    ?

??

?`lround()`, `lroundf()`, `lroundl()`,    ? Thread safety ? MT-Safe ?

?`llround()`, `llroundf()`, `llroundl()` ?            ?            ?

??

## CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

## SEE ALSO

`ceil(3)`, `floor(3)`, `lrint(3)`, `nearbyint(3)`, `rint(3)`, `round(3)`

## COLOPHON

This page is part of release 5.05 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.