



Rocky Enterprise Linux 9.2 Manual Pages on command 'llround.3'

C:\>man llround.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 ?

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?`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

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