



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

\$ man lroundf.3

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

NAME

lround, lroundf, lroundl, llround, llroundf, llroundl - round to near?

est integer

SYNOPSIS

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

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

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

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

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

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

```
long long 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 round?

ing 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 5.10 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/>.

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LROUND(3)