



Linux Ubuntu 26.04 Manual Pages on command 'lround.3'

\$ man lround.3

lround(3) Library Functions Manual lround(3)

NAME

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

LIBRARY

Math library (libm, -lm)

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);
```

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.

ERRORS

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`.

ATTRIBUTES

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

[illegible]

?	Interface	?	Attribute	?	Value	?
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[illegible]

? lround(), lroundf(), lroundl(), llround(), llroundf(),	? Thread safety ? MT-Safe ?
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? llroundl()	?	?	?
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[illegible]

STANDARDS

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

SEE ALSO

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

Linux man-pages 6.17

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lround(3)