



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

\$ man lrintl.3

lrint(3) Library Functions Manual lrint(3)

NAME

lrint, lrintf, lrintl, llrint, llrintf, llrintl - round to nearest integer

LIBRARY

Math library (libm, -lm)

SYNOPSIS

```
#include <math.h>

long lrint(double x);

long lrintf(float x);

long lrintl(long double x);

long long llrint(double x);

long long llrintf(float x);

long long llrintl(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, using the current rounding direction (see fesetround(3)).

Note that unlike the rint(3) family of 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.

ATTRIBUTES

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

[illegible]

?	Interface	?	Attribute	?	Value	?
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[illegible]

? lrint(), lrintf(), lrintl(), llrint(), llrintf(), llrintl() ? Thread safety ? MT-Safe ?

[illegible]

STANDARDS

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

SEE ALSO

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

Linux man-pages 6.17

2026-02-08

```
lrint(3)
```