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

#### ***\$ man lldiv.3***

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

#### NAME

div, ldiv, lldiv, imaxdiv - compute quotient and remainder of an integer division

#### SYNOPSIS

```
#include <stdlib.h>

div_t div(int numerator, int denominator);

ldiv_t ldiv(long numerator, long denominator);

lldiv_t lldiv(long long numerator, long long denominator);

#include <inttypes.h>

imaxdiv_t imaxdiv(intmax_t numerator, intmax_t denominator);
```

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

```
lldiv():

    _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

#### DESCRIPTION

The div() function computes the value numerator/denominator and returns the quotient and remainder in a structure named div\_t that contains two integer members (in unspecified order) named quot and rem. The quo?

quot\*denominator+rem = numerator.

The ldiv(), lldiv(), and imaxdiv() functions do the same, dividing numbers of the indicated type and returning the result in a structure of the indicated name, in all cases with fields quot and rem of the same type as the function arguments.

RETURN VALUE

The div\_t (etc.) structure.

ATTRIBUTES

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

??

?Interface ? Attribute ? Value ?

??

?div(), ldiv(), lldiv(), imaxdiv() ? Thread safety ? MT-Safe ?

??

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89, C99, SVr4, 4.3BSD. The functions lldiv() and imaxdiv() were added in C99.

EXAMPLES

After

```
div_t q = div(-5, 3);
```

the values q.quot and q.rem are -1 and -2, respectively.

SEE ALSO

abs(3), remainder(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/.