



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

C:\>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 quotient is rounded toward zero.

The result satisfies `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

