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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'div.3p' command

\$ man div.3p

DIV(3P) POSIX Programmer's Manual DIV(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

div ? compute the quotient and remainder of an integer division

SYNOPSIS

```
#include <stdlib.h>

div_t div(int numer, int denom);
```

DESCRIPTION

The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

The `div()` function shall compute the quotient and remainder of the division of the numerator `numer` by the denominator `denom`. If the division is inexact, the resulting quotient is the integer of lesser magnitude that is the nearest to the algebraic quotient. If the result cannot be represented, the behavior is undefined; otherwise, `quot*denom+rem` shall equal `numer`.

RETURN VALUE

The `div()` function shall return a structure of type `div_t`, comprising both the quotient and the remainder. The structure includes the following members, in any order:

```
int quot; /* quotient */
int rem; /* remainder */
```

ERRORS

No errors are defined.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`ldiv()`

The Base Definitions volume of POSIX.1-2017, `<stdlib.h>`

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