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

#### ***\$ man remquo.3***

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

#### NAME

remquo, remquof, remquol - remainder and part of quotient

#### SYNOPSIS

```
#include <math.h>

double remquo(double x, double y, int *quo);

float remquof(float x, float y, int *quo);

long double remquol(long double x, long double y, int *quo);

Link with -lm.
```

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

```
remquo(), remquof(), remquol():
    _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

#### DESCRIPTION

These functions compute the remainder and part of the quotient upon division of  $x$  by  $y$ . A few bits of the quotient are stored via the `quo` pointer. The remainder is returned as the function result. The value of the remainder is the same as that computed by the `remainder(3)` function.

The value stored via the quo pointer has the sign of  $x / y$  and agrees with the quotient in at least the low order 3 bits.

For example, `remquo(29.0, 3.0)` returns -1.0 and might store 2. Note that the actual quotient might not fit in an integer.

## RETURN VALUE

On success, these functions return the same value as the analogous functions described in `remainder(3)`.

If  $x$  or  $y$  is a NaN, a NaN is returned.

If  $x$  is an infinity, and  $y$  is not a NaN, a domain error occurs, and a NaN is returned.

If  $y$  is zero, and  $x$  is not a NaN, a domain error occurs, and a NaN is returned.

## ERRORS

See `math_error(7)` for information on how to determine whether an error has occurred when calling these functions.

The following errors can occur:

Domain error:  $x$  is an infinity or  $y$  is 0, and the other argument is not a NaN

An invalid floating-point exception (`FE_INVALID`) is raised.

These functions do not set `errno`.

## VERSIONS

These functions first appeared in glibc in version 2.1.

## ATTRIBUTES

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

??

?Interface            ? Attribute   ? Value   ?

??

?`remquo()`, `remquof()`, `remquol()` ? Thread safety ? MT-Safe ?

??

## CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

## SEE ALSO

fmod(3), logb(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/>.

GNU

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