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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).

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?Interface ? Attribute ? Value ?

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

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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/>.