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

**$ man erfc.3**

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

NAME

     erfc, erfcf, erfcl - complementary error function

SYNOPSIS

     #include <math.h>

     double erfc(double x);

     float erfcf(float x);

     long double erfcl(long double x);

     Link with -lm.

   Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

     erfc():

         _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L || _XOPEN_SOURCE

             || /* Since glibc 2.19: */ _DEFAULT_SOURCE

             || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

     erfcf(), erfcl():

         _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

             || /* Since glibc 2.19: */ _DEFAULT_SOURCE

             || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

## DESCRIPTION

These functions return the complementary error function of x, that is,
1.0 - erf(x).

## RETURN VALUE

On success, these functions return the complementary error function of
x, a value in the range [0,2].

If x is a NaN, a NaN is returned.

If x is +0 or -0, 1 is returned.

If x is positive infinity, +0 is returned.

If x is negative infinity, +2 is returned.

If the function result underflows and produces an unrepresentable
value, the return value is 0.0.

If the function result underflows but produces a representable (i.e.,
subnormal) value, that value is returned, and a range error occurs.

## 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:

Range error: result underflow (result is subnormal)

An underflow floating-point exception (FE_UNDERFLOW) is raised.

These functions do not set errno.

## ATTRIBUTES

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

????????????????????????????????????????????????????????
?Interface          ? Attribute   ? Value   ?
????????????????????????????????????????????????????????
?erfc(), erfcf(), erfcl() ? Thread safety ? MT-Safe ?
????????????????????????????????????????????????????????

## CONFORMING TO

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

The variant returning double also conforms to SVr4, 4.3BSD.

## NOTES

The  erfc(),  erfcf(),  and erfcl() functions are provided to avoid the loss accuracy that would occur for the calculation 1-erf(x)  for  large values of x (for which the value of erf(x) approaches 1).

SEE ALSO

cerf(3), erf(3), exp(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/.

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