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

\$ man expf.3
EXP(3) Linux Programmer's Manual EXP(3)
NAME
exp, expf, expl - base-e exponential function
SYNOPSIS
<pre>#include <math.h></math.h></pre>
double exp(double x);
float expf(float x);
long double expl(long double x);
Link with -Im.
Feature Test Macro Requirements for glibc (see feature_test_macros(7)):
expf(), expl():
_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 value of e (the base of natural logarithms) raised to
of x.
RETURN VALUE

On success, these functions return the exponential value of x.

If x is a NaN, a NaN is returned.

If x is positive infinity, positive infinity is returned.

If x is negative infinity, +0 is returned.

If the result underflows, a range error occurs, and zero is returned.

the power

If the result overflows, a range error occurs, and the functions return +HUGE_VAL,

+HUGE_VALF, or +HUGE_VALL, respectively.

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, overflow

errno is set to ERANGE. An overflow floating-point exception (FE_OVERFLOW) is

raised.

Range error, underflow

errno is set to ERANGE. An underflow floating-point exception (FE_UNDERFLOW) is

raised.

ATTRIBUTES

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

?Interface ? Attribute ? Value ?

?exp(), expf(), expl() ? Thread safety ? MT-Safe ?

CONFORMING TO

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

The variant returning double also conforms to SVr4, 4.3BSD, C89.

SEE ALSO

cbrt(3), cexp(3), exp10(3), exp2(3), expm1(3), sqrt(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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