



### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'exp10l.3'***

#### ***\$ man exp10l.3***

EXP10(3)                      Linux Programmer's Manual                      EXP10(3)

#### NAME

exp10, exp10f, exp10l - base-10 exponential function

#### SYNOPSIS

```
#define _GNU_SOURCE      /* See feature_test_macros(7) */

#include <math.h>

double exp10(double x);

float exp10f(float x);

long double exp10l(long double x);

Link with -lm.
```

#### DESCRIPTION

These functions return the value of 10 raised to the power of x.

#### RETURN VALUE

On success, these functions return the base-10 exponential value of x.

For various special cases, including the handling of infinity and NaN, as well as overflows and underflows, see exp(3).

#### ERRORS

See math\_error(7) for information on how to determine whether an error

has occurred when calling these functions.

For a discussion of the errors that can occur for these functions, see `exp(3)`.

## 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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?exp10(), exp10f(), exp10l() ? Thread safety ? MT-Safe ?

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## CONFORMING TO

These functions are GNU extensions.

## BUGS

Prior to version 2.19, the glibc implementation of these functions did not set `errno` to `ERANGE` when an underflow error occurred.

## SEE ALSO

`cbrt(3)`, `exp(3)`, `exp2(3)`, `log10(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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