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).

Interface	Attribute	Value
exp10(), **exp10f**(), **exp10l**()	Thread safety	MT-Safe

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 4.09 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/.

