

NAME

exp10, exp10f, exp10l – base-10 exponential function

LIBRARY

Math library (*libm*, *-lm*)

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);
```

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 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

STANDARDS

These functions are GNU extensions.

BUGS

Before glibc 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)**