



Rocky Enterprise Linux 9.2 Manual Pages on command 'exp2l.3'

\$ man exp2l.3

EXP2(3) Linux Programmer's Manual EXP2(3)

NAME

exp2, exp2f, exp2l - base-2 exponential function

SYNOPSIS

```
#include <math.h>
```

```
double exp2(double x);
```

```
float exp2f(float x);
```

```
long double exp2l(long double x);
```

Link with -lm.

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

```
exp2(), exp2f(), exp2l():
```

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

DESCRIPTION

These functions return the value of 2 raised to the power of x.

RETURN VALUE

On success, these functions return the base-2 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 ?

??

?`exp2()`, `exp2f()`, `exp2l()` ? Thread safety ? MT-Safe ?

??

CONFORMING TO

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

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

SEE ALSO

`cbrt(3)`, `cexp2(3)`, `exp(3)`, `exp10(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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