



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

**C:\>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 5.05 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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