



Linux Ubuntu 26.04 Manual Pages on command 'exp2l.3'

\$ man exp2l.3

exp2(3) Library Functions Manual exp2(3)

NAME

exp2, exp2f, exp2l - base-2 exponential function

LIBRARY

Math library (libm, -lm)

SYNOPSIS

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

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

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

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

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).

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

??		
? Interface	? Attribute	? Value ?
??		
? exp2(), exp2f(), exp2l()	? Thread safety ? MT-Safe ?	
??		

STANDARDS

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

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

SEE ALSO

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

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