



**Linux Ubuntu 26.04 Manual Pages on command 'cexpf.3'**

**\$ man cexpf.3**

cexp(3)                      Library Functions Manual                      cexp(3)

NAME

cexp, cexpf, cexpl - complex exponential function

LIBRARY

Math library (libm, -lm)

SYNOPSIS

```
#include <complex.h>

double complex cexp(double complex z);

float complex cexpf(float complex z);

long double complex cexpl(long double complex z);
```

DESCRIPTION

These functions calculate e (2.71828..., the base of natural logarithms) raised to the power of z.

One has:

$$cexp(l * z) = ccos(z) + l * csin(z)$$

ATTRIBUTES

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

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? Interface                                      ? Attribute    ? Value    ?

????????????????????????????????????????????????????????????????????????????????????????????????????????????

? cexp(), cexpf(), cexpl()                                      ? Thread safety ? MT-Safe ?

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STANDARDS

C11, POSIX.1-2008.

## HISTORY

glibc 2.1. C99, POSIX.1-2001.

## SEE ALSO

cabs(3), cexp2(3), clog(3), cpow(3), complex(7)

Linux man-pages 6.17

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