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

**\$ man cexp.3**

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

NAME

cexp, cexpf, cexpl - complex exponential function

SYNOPSIS

```
#include <complex.h>

double complex cexp(double complex z);
float complex cexpf(float complex z);
long double complex cexpl(long double complex z);

Link with -lm.
```

DESCRIPTION

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

One has:

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

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    ?

??

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

??

## CONFORMING TO

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

## SEE ALSO

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

## 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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