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

#### ***\$ man cexpl.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 at?

tributes(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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CEXP(3)