



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

C:\>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  $e$  (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).

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?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 5.05 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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