



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

**C:\>man ccoshl.3**

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

### NAME

ccosh, ccoshf, ccoshl - complex hyperbolic cosine

### SYNOPSIS

```
#include <complex.h>
```

```
double complex ccosh(double complex z);
```

```
float complex ccoshf(float complex z);
```

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

Link with -lm.

### DESCRIPTION

These functions calculate the complex hyperbolic cosine of z.

The complex hyperbolic cosine function is defined as:

$$\text{ccosh}(z) = (\exp(z) + \exp(-z)) / 2$$

### VERSIONS

These functions first appeared in glibc in version 2.1.

### CONFORMING TO

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

### SEE ALSO

cabs(3), cacosh(3), csinh(3), ctanh(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/>.

2017-09-15

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