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

#### ***\$ man ccosh.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 5.10 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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