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 coshl(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:

```
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 5.02 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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