

**NAME**

conj, conjf, conjl - calculate the complex conjugate

**SYNOPSIS**

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

```
double complex conj(double complex z);
```

```
float complex conjf(float complex z);
```

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

Link with *-lm*.

**DESCRIPTION**

The **conj()** function returns the complex conjugate value of *z*. That is the value obtained by changing the sign of the imaginary part.

One has:

$$\text{cabs}(z) = \text{csqrt}(z * \text{conj}(z))$$
**VERSIONS**

These functions first appeared in glibc in version 2.1.

**ATTRIBUTES**

**Multithreading** (see [pthreads\(7\)](#))

The **conj()**, **conjf()**, and **conjl()** functions are thread-safe.

**CONFORMING TO**

C99.

**SEE ALSO**

[cabs\(3\)](#), [csqrt\(3\)](#), [complex\(7\)](#)

**COLOPHON**

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.