

**NAME**

cpow, cpowf, cpowl - complex power function

**SYNOPSIS**

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

```
double complex cpow(double complex x, complex double z);
```

```
float complex cpowf(float complex x, complex float z);
```

```
long double complex cpowl(long double complex x,  
complex long double z);
```

Link with *-lm*.

**DESCRIPTION**

The function calculates  $x$  raised to the power  $z$ . (With a branch cut for  $x$  along the negative real axis.)

**VERSIONS**

These functions first appeared in glibc in version 2.1.

**CONFORMING TO**

C99.

**SEE ALSO**

[cabs\(3\)](#), [pow\(3\)](#), [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/>.