

NAME

cpow, cpowf, cpowl – complex power function

LIBRARY

Math library (*libm*, *-lm*)

SYNOPSIS

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

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

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

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

DESCRIPTION

These functions calculate x raised to the power z (with a branch cut for x along the negative real axis).

VERSIONS

These functions were added in glibc 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
cpow(), cpowf(), cpowl()	Thread safety	MT-Safe

STANDARDS

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

SEE ALSO

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