NAME

csqrt, csqrtf, csqrtl − complex square root

SYNOPSIS

#include <complex.h>

double complex csqrt(double complex *z*);
float complex csqrtf(float complex *z*);
long double complex csqrtl(long double complex *z*);

Link with *−lm*.

DESCRIPTION

These functions calculate the complex square root of *z*, with a branch cut along the negative real axis. (That means that *csqrt(−1+eps*I)* will be close to I while *csqrt(−1−eps*I)* will be close to −I, *if eps* is a small positive real number.)

VERSIONS

These functions first appeared in glibc in version 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
csqrt(), **csqrtf**(), **csqrtl**()	Thread safety	MT-Safe

CONFORMING TO

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

SEE ALSO

cabs(3), **cexp**(3), **complex**(7)

COLOPHON

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