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

Calculate the square root of a given complex number, with nonnegative real part, and 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.

CONFORMING TO

C99.

SEE ALSO

```
cabs(3), cexp(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/.

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