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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'csqrtf.3'***

***\$ man csqrtf.3***

CSQRT(3)                      Linux Programmer's Manual                      CSQRT(3)

#### 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  $\text{csqrt}(-1+\text{eps}*I)$  will be close to  $I$  while  $\text{csqrt}(-1-\text{eps}*I)$  will be close to  $-I$ , if  $\text{eps}$  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 at?

tributes(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

This page is part of release 5.10 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 <https://www.kernel.org/doc/man-pages/>.

2017-09-15

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