



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'csqrt.3' command

\$ man csqrt.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 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

CSQRT(3)