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

***\$ man csqrt.3p***

CSQRT(3P)            POSIX Programmer's Manual            CSQRT(3P)

### PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

### NAME

csqrt, csqrtf, csqrtl ? complex square root functions

### SYNOPSIS

```
#include <complex.h>

double complex csqrt(double complex z);

float complex csqrtf(float complex z);

long double complex csqrtl(long double complex z);
```

### DESCRIPTION

The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

These functions shall compute the complex square root of  $z$ , with a branch cut along the negative real axis.

### RETURN VALUE

These functions shall return the complex square root value, in the range of the right half-plane (including the imaginary axis).

## ERRORS

No errors are defined.

The following sections are informative.

## EXAMPLES

None.

## APPLICATION USAGE

None.

## RATIONALE

None.

## FUTURE DIRECTIONS

None.

## SEE ALSO

`cabs()`, `cpow()`

The Base Definitions volume of POSIX.1-2017, `<complex.h>`

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