



*Full credit is given to the above companies including the OS that this PDF file was generated!*

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

#### ***\$ man cprojf.3***

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

#### NAME

cproj, cprojf, cprojl - project into Riemann Sphere

#### SYNOPSIS

```
#include <complex.h>

double complex cproj(double complex z);

float complex cprojf(float complex z);

long double complex cprojl(long double complex z);

Link with -lm.
```

#### DESCRIPTION

These functions project a point in the plane onto the surface of a Riemann Sphere, the one-point compactification of the complex plane. Each finite point  $z$  projects to  $z$  itself. Every complex infinite value is projected to a single infinite value, namely to positive infinity on the real axis.

#### 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   ?

??

?cproj(), cprojf(), cprojl() ? Thread safety ? MT-Safe ?

??

CONFORMING TO

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

NOTES

In glibc 2.11 and earlier, the implementation does something different (a stereographic projection onto a Riemann Sphere).

SEE ALSO

cabs(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/>.

2015-04-19

CPROJ(3)