



Linux Ubuntu 26.04 Manual Pages on command 'cproj.3'

\$ man cproj.3

cproj(3)
Library Functions Manual
cproj(3)

NAME

cproj, cprojf, cprojl - project into Riemann Sphere

LIBRARY

Math library (libm, -lm)

SYNOPSIS

```
#include <complex.h>

double complex cproj(double complex z);

float complex cprojf(float complex z);

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

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.

ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

[illegible]

?	Interface	?	Attribute	?	Value	?
---	-----------	---	-----------	---	-------	---

[illegible]

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

[illegible]

Page 1/2

STANDARDS

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

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

SEE ALSO

cabs(3), complex(7)

Linux man-pages 6.17

2026-02-08

cproj(3)