



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

\$ man cprojl.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 ∞ ?

finiteness on the real axis.

ATTRIBUTES

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

[illegible]

? Interface		? Attribute	? Value	?
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[illegible]

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

[illegible]

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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

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