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Rocky Enterprise Linux 9.2 Manual Pages on command 'cprojl.3'

\$ man cprojl.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 attributes(7).

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?Interface ? Attribute ? Value ?

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?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/>.

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