



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

#### **\$ man cimagl.3**

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

#### NAME

cimag, cimagf, cimagl - get imaginary part of a complex number

#### SYNOPSIS

```
#include <complex.h>
```

```
double cimag(double complex z);
```

```
float cimagf(float complex z);
```

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

Link with -lm.

#### DESCRIPTION

These functions return the imaginary part of the complex number z.

One has:

$$z = \text{creal}(z) + I * \text{cimag}(z)$$

#### 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   ?

????????????????????????????????????????????????????????????

?cimag(), cimagf(), cimagl() ? Thread safety ? MT-Safe ?

????????????????????????????????????????????????????????????

## CONFORMING TO

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

## NOTES

gcc also supports `__imag__`. That is a GNU extension.

## SEE ALSO

`cabs(3)`, `creal(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

CIMAG(3)