NAME

cimag, cimagl, 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 = creal(z) + I * 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 attributes(7).

Interface	Attribute	Value
<pre>cimag(), cimagf(), cimagl()</pre>	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 4.16 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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