

NAME

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

LIBRARY

Math library (*libm*, *-lm*)

SYNOPSIS

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

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

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

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

DESCRIPTION

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

One has:

```
z = creal(z) + I * cimag(z)
```

VERSIONS

These functions were added in glibc 2.1.

ATTRIBUTES

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

Interface	Attribute	Value
cimag(), cimagf(), cimagl()	Thread safety	MT-Safe

STANDARDS

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)**