

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 **attributes(7)**.

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

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