NAME

creal, crealf, creall – get real part of a complex number

SYNOPSIS

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

```
\  \, {\bf double\ creal}({\bf double\ complex}\ z);
```

float crealf(float complex z);

long double creall(long double complex z);

Link with -lm.

DESCRIPTION

These functions return the real 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
creal(), crealf(), creall()	Thread safety	MT-Safe

CONFORMING TO

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

NOTES

The gcc supports also __real__. That is a GNU extension.

SEE ALSO

```
cabs(3), cimag(3), complex(7)
```

COLOPHON

This page is part of release 5.05 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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