NAME

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

SYNOPSIS

```
#include <complex.h>
double creal(double complex z);
float crealf(float complex z);
long double creall(long double complex z);
```

Link with -lm.

DESCRIPTION

The **creal**() function returns 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

```
Multithreading (see pthreads(7))
```

The **creal()**, **crealf()**, and **creall()** functions are thread-safe.

CONFORMING TO

C99.

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 3.74 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 http://www.kernel.org/doc/man-pages/.

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