NAME

cabs, cabsf, cabsl − absolute value of a complex number

SYNOPSIS

#include <complex.h>

double cabs(double complex *z***);**
float cabsf(float complex *z***);**
long double cabsl(long double complex *z***);**

Link with *−lm*.

DESCRIPTION

These functions return the absolute value of the complex number *z*. The result is a real number.

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
cabs(), **cabsf**(), **cabsl**()	Thread safety	MT-Safe

CONFORMING TO

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

NOTES

The function is actually an alias for *hypot(a, b)* (or, equivalently, *sqrt(a*a + b*b)*).

SEE ALSO

abs(3), cimag(3), hypot(3), complex(7)

COLOPHON

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