#### **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**

This page is part of release 5.02 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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