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***Rocky Enterprise Linux 9.2 Manual Pages on command 'cabs.3'***

**\$ man cabs.3**

CABS(3)                      Linux Programmer's Manual                      CABS(3)

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 5.10 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/>.

2015-04-19

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