### **NAME**

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

### **LIBRARY**

Math library (libm, -lm)

### **SYNOPSIS**

#include <complex.h>

double cabs(double complex z);
float cabsf(float complex z);

long double cabsl(long double complex z);

### **DESCRIPTION**

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

### **VERSIONS**

These functions were added in glibc 2.1.

# **ATTRIBUTES**

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
cabs(), cabsl()	Thread safety	MT-Safe

# **STANDARDS**

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)