

**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**

The `cabs()` function returns 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.

**CONFORMING TO**

C99.

**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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