NAME

abs, labs, llabs, imaxabs - compute the absolute value of an integer

SYNOPSIS

DESCRIPTION

The abs() function computes the absolute value of the integer argument j. The labs(), llabs() and imax-abs() functions compute the absolute value of the argument j of the appropriate integer type for the function

RETURN VALUE

Returns the absolute value of the integer argument, of the appropriate integer type for the function.

ATTRIBUTES

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

Interface	Attribute	Value
abs(), labs(), llabs(), imax-	Thread safety	MT-Safe
abs()		

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C99, SVr4, 4.3BSD. C89 only includes the **abs**() and **labs**() functions; the functions **llabs**() and **imaxabs**() were added in C99.

NOTES

Trying to take the absolute value of the most negative integer is not defined.

The **llabs**() function is included in glibc since version 2.0. The **imaxabs**() function is included in glibc since version 2.1.1.

For **llabs**() to be declared, it may be necessary to define **_ISOC99_SOURCE** or **_ISOC9X_SOURCE** (depending on the version of glibc) before including any standard headers.

By default, GCC handles **abs**(), **labs**(), and (since GCC 3.0) **llabs**() and **imaxabs**() as built-in functions.

SEE ALSO

```
cabs(3), ceil(3), fabs(3), floor(3), rint(3)
```

COLOPHON

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