Red Hat Enterprise Linux Release 9.2 Manual Pages on 'abs.3' command

$ man abs.3

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

NAME

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

SYNOPSIS

    #include <stdlib.h>

    int abs(int j);

    long labs(long j);

    long long llabs(long long j);

    #include <inttypes.h>

    intmax_t imaxabs(intmax_t j);

  Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

    llabs():

      _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

DESCRIPTION

    The abs() function computes the absolute value of the integer argument

    j. The labs(), llabs(), and imaxabs() functions compute the absolute

    value of the argument j of the appropriate integer type for the func?

    tion.

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 at?

tributes(7).

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??????????????????????????????????????????????
?Interface       ? Attribute   ? Value   ?
??????????????????????????????????????????????
?abs(), labs(),    ? Thread safety ? MT-Safe ?
?llabs(), imaxabs() ?           ?       ?
??????????????????????????????????????????????
```

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 imax?
abs() 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

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/.

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