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Rocky Enterprise Linux 9.2 Manual Pages on command 'isnanf.3'

$ man isnanf.3

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

NAME

    finite, finitef, finitel, isinf, isinff, isinfl, isnan, isnanf, isnanl

    - BSD floating-point classification functions

SYNOPSIS

    #include <math.h>

    int finite(double x);

    int finitef(float x);

    int finitel(long double x);

    int isinf(double x);

    int isinff(float x);

    int isinfl(long double x);

    int isnan(double x);

    int isnanf(float x);

    int isnanl(long double x);

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

    finite(), finitef(), finitel():

      /* Glibc since 2.19: */ _DEFAULT_SOURCE

```
           || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
    isinf():
        _XOPEN_SOURCE >= 600 || _ISOC99_SOURCE
            || /* Glibc since 2.19: */ _DEFAULT_SOURCE
            || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
    isinff(), isinfl():
        /* Glibc since 2.19: */ _DEFAULT_SOURCE
            || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
    isnan():
        _XOPEN_SOURCE || _ISOC99_SOURCE
            || /* Glibc since 2.19: */ _DEFAULT_SOURCE
            || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
    isnanf(), isnanl():
        _XOPEN_SOURCE >= 600
            || /* Glibc since 2.19: */ _DEFAULT_SOURCE
            || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

The finite(), finitef(), and finitel() functions return a nonzero value
if x is neither infinite nor a "not-a-number" (NaN) value, and 0 other?
wise.

The isnan(), isnanf(), and isnanl() functions return a nonzero value if
x is a NaN value, and 0 otherwise.

The isinf(), isinff(), and isinfl() functions return 1 if x is positive
infinity, -1 if x is negative infinity, and 0 otherwise.

ATTRIBUTES

For an explanation of the terms used in this section, see at?
tributes(7).

```
??????????????????????????????????????????????????????????????????
?Interface               ? Attribute   ? Value   ?
??????????????????????????????????????????????????????????????????
?finite(), finitef(), finitel(), ? Thread safety ? MT-Safe ?
?isinf(), isinff(), isinfl(),    ?           ?       ?
?isnan(), isnanf(), isnanl()     ?           ?       ?
```

???

NOTES

Note that these functions are obsolete. C99 defines macros isfinite(), isinf(), and isnan() (for all types) replacing them. Further note that the C99 isinf() has weaker guarantees on the return value. See fpclas?sify(3).

SEE ALSO

fpclassify(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/.