



Linux Ubuntu 26.04 Manual Pages on command 'isinff.3'

\$ man isinff.3

finite(3) Library Functions Manual finite(3)

NAME

finite, finitef, finitel, isinf, isinff, isinfl, isnan, isnanf, isnanl - BSD floating-point
classification functions

LIBRARY

Math library (libm, -lm)

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 >= 2.19: */ _DEFAULT_SOURCE

|| /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

isinf():

```
_XOPEN_SOURCE >= 600 || _ISOC99_SOURCE
```

```
|| /* glibc >= 2.19: */ _DEFAULT_SOURCE
|| /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

isinf(), isinfl():

```
/* glibc >= 2.19: */ _DEFAULT_SOURCE
|| /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

isnan():

```
_XOPEN_SOURCE || _ISOC99_SOURCE
|| /* glibc >= 2.19: */ _DEFAULT_SOURCE
|| /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

isnanf(), isnanl():

```
_XOPEN_SOURCE >= 600
|| /* glibc >= 2.19: */ _DEFAULT_SOURCE
|| /* glibc <= 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 otherwise.

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

The `isinf()`, `isinf()`, 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 `attributes(7)`.

Interface	Attribute	Value
<code>finite()</code> , <code>finitef()</code> , <code>finitel()</code> , <code>isinf()</code> , <code>isinf()</code> , <code>isinfl()</code>	Thread safety	MT-Safe
<code>isnan()</code> , <code>isnanf()</code> , <code>isnanl()</code>		

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 `fpclassify(3)`.

fpclassify(3)

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