



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

C:~\>man islessgreater.3

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

NAME

isgreater, isgreaterequal, isless, islessequal, islessgreater, isunordered - float?
floating-point relational tests without exception for NaN

SYNOPSIS

```
#include <math.h>

int isgreater(x, y);
int isgreaterequal(x, y);
int isless(x, y);
int islessequal(x, y);
int islessgreater(x, y);
int isunordered(x, y);

Link with -lm.
```

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

All functions described here:

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

DESCRIPTION

The normal relational operations (like `<`, "less than") fail if one of the operands is NaN. This will cause an exception. To avoid this, C99 defines the macros listed below.

These macros are guaranteed to evaluate their arguments only once. The arguments must be of real floating-point type (note: do not pass integer values as arguments

NOTES

Not all hardware supports these functions, and where hardware support isn't provided, they will be emulated by macros. This will result in a performance penalty. Don't use these functions if NaN is of no concern for you.

SEE ALSO

`fpclassify(3)`, `isnan(3)`

COLOPHON

This page is part of release 5.05 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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