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

$ man HUGE_VAL.3

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

NAME

    INFINITY, NAN, HUGE_VAL, HUGE_VALF, HUGE_VALL - floating-point con?

    stants

SYNOPSIS

    #define _ISOC99_SOURCE   /* See feature_test_macros(7) */

    #include <math.h>

    INFINITY

    NAN

    HUGE_VAL

    HUGE_VALF

    HUGE_VALL

DESCRIPTION

    The macro INFINITY expands to a float constant representing positive

    infinity.

    The macro NAN expands to a float constant representing a quiet NaN

    (when supported). A quiet NaN is a NaN ("not-a-number") that does not

    raise exceptions when it is used in arithmetic. The opposite is a sig?

    naling NaN. See IEC 60559:1989.

    The macros HUGE_VAL, HUGE_VALF, HUGE_VALL expand to constants of types

    double, float, and long double, respectively, that represent a large

    positive value, possibly positive infinity.

CONFORMING TO

C99.

On a glibc system, the macro HUGE_VAL is always available.   Availabil?

ity of the NAN macro can be tested using #ifdef NAN, and similarly for

INFINITY, HUGE_VALF, HUGE_VALL. They will be defined by <math.h> if

_ISOC99_SOURCE or _GNU_SOURCE is defined, or __STDC_VERSION__ is de?

fined and has a value not less than 199901L.

SEE ALSO

fpclassify(3), math_error(7)

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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