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

$ man NAN.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

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