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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'nan.3'***

**\$ man nan.3**

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

NAME

nan, nanf, nanl - return 'Not a Number'

SYNOPSIS

```
#include <math.h>
```

```
double nan(const char *tagp);
```

```
float nanf(const char *tagp);
```

```
long double nanl(const char *tagp);
```

Link with -lm.

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

```
nan(), nanf(), nanl():
```

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

DESCRIPTION

These functions return a representation (determined by tagp) of a quiet NaN. If the implementation does not support quiet NaNs, these functions return zero.

The call nan("char-sequence") is equivalent to:

```
  strtod("NaN(char-sequence)", NULL);
```

Similarly, calls to nanf() and nanl() are equivalent to analogous calls to strtod(3) and strtold(3).

The argument tagp is used in an unspecified manner. On IEEE 754 systems, there are many representations of NaN, and tagp selects one. On other systems it may do nothing.

VERSIONS

These functions first appeared in glibc in version 2.1.

