



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

C:\>man nanl.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 `strtof(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.

