



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

C:\>man nextup.3

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

NAME

nextup, nextupf, nextupl, nextdown, nextdownf, nextdownl - return next floating-point number toward positive/negative infinity

SYNOPSIS

```
#define _GNU_SOURCE    /* See feature_test_macros(7) */
#include <math.h>

double nextup(double x);
float nextupf(float x);
long double nextupl(long double x);

double nextdown(double x);
float nextdownf(float x);
long double nextdownl(long double x);

Link with -lm.
```

DESCRIPTION

The nextup(), nextupf(), and nextupl() functions return the next representable floating-point number greater than x.

If x is the smallest representable negative number in the corresponding type, these functions return -0. If x is 0, the returned value is the smallest representable positive number of the corresponding type.

If x is positive infinity, the returned value is positive infinity. If x is nega-

tive infinity, the returned value is the largest representable finite negative num?

