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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'strtouq.3' command***

### ***\$ man strtouq.3***

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

#### NAME

strtoul, strtoull, strtouq - convert a string to an unsigned long integer

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#### SYNOPSIS

```
#include <stdlib.h>
```

```
unsigned long strtoul(const char *nptr, char **endptr, int base);
```

```
unsigned long long strtoull(const char *nptr, char **endptr,  
                              int base);
```

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

```
strtoull():
```

```
  _ISOC99_SOURCE ||
```

```
  || /* Glibc versions <= 2.19: */ _SVID_SOURCE || _BSD_SOURCE
```

#### DESCRIPTION

The strtoul() function converts the initial part of the string in nptr to an unsigned long value according to the given base, which must be between 2 and 36 inclusive, or be the special value 0.

The string may begin with an arbitrary amount of white space (as determined by isspace(3)) followed by a single optional '+' or '-' sign. If base is zero or 16, the string may then include a "0x" prefix, and the number will be read in base 16; otherwise, a zero base is taken as 10 (decimal) unless the next character is '0', in which case it is taken as 8 (octal).



strtoul(): POSIX.1-2001, POSIX.1-2008, C89, C99 SVr4.

strtoull(): POSIX.1-2001, POSIX.1-2008, C99.

## NOTES

Since strtoul() can legitimately return 0 or ULONG\_MAX (ULLONG\_MAX for strtoull()) on both success and failure, the calling program should set errno to 0 before the call, and then determine if an error occurred by checking whether errno has a nonzero value after the call.

In locales other than the "C" locale, other strings may be accepted.

(For example, the thousands separator of the current locale may be supported.)

BSD also has

```
u_quad_t strtouq(const char *nptr, char **endptr, int base);
```

with completely analogous definition. Depending on the wordsize of the current architecture, this may be equivalent to strtoull() or to strtoul().

Negative values are considered valid input and are silently converted to the equivalent unsigned long value.

## EXAMPLES

See the example on the strtol(3) manual page; the use of the functions described in this manual page is similar.

## SEE ALSO

a64l(3), atof(3), atoi(3), atol(3), strtod(3), strtol(3), strtoumax(3)

## COLOPHON

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