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

**\$ man atoq.3**

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

NAME

atoi, atol, atoll - convert a string to an integer

SYNOPSIS

```
#include <stdlib.h>

int atoi(const char *nptr);

long atol(const char *nptr);

long long atoll(const char *nptr);
```

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

```
atoll():

    _ISOC99_SOURCE ||

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

DESCRIPTION

The `atoi()` function converts the initial portion of the string pointed to by `nptr` to `int`.

The behavior is the same as

```
strtol(nptr, NULL, 10);
```

except that `atoi()` does not detect errors.

The `atol()` and `atoll()` functions behave the same as `atoi()`, except that they convert the initial portion of the string to their return type of `long` or `long long`.

RETURN VALUE

The converted value or 0 on error.

ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

??

?Interface ? Attribute ? Value ?

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?atoi(), atol(), atoll() ? Thread safety ? MT-Safe locale ?

??

### CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C99, SVr4, 4.3BSD. C89 and POSIX.1-1996 include the functions  
atoi() and atol() only.

### NOTES

POSIX.1 leaves the return value of atoi() on error unspecified. On glibc, musl libc, and  
uClibc, 0 is returned on error.

### BUGS

errno is not set on error so there is no way to distinguish between 0 as an error and as  
the converted value. No checks for overflow or underflow are done. Only base-10 input  
can be converted. It is recommended to instead use the strtol() and strtoul() family of  
functions in new programs.

### SEE ALSO

atof(3), strtod(3), strtol(3), strtoul(3)

### COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the  
project, information about reporting bugs, and the latest version of this page, can be  
found at <https://www.kernel.org/doc/man-pages/>.