

ATOI(3)

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

NAME

atoi, atol, atoll, atq - 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);

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

Feature Test Macro Requirements for glibc (see **feature_test_macros(7)**):

atoll():

```
_BSD_SOURCE || _SVID_SOURCE || _XOPEN_SOURCE >= 600 ||
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L;
```

or cc -std=c99

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. **atoq**() is an obsolete name for **atoll**().

RETURN VALUE

The converted value.

CONFORMING TO

SVr4, POSIX.1-2001, 4.3BSD, C99. C89 and POSIX.1-1996 include the functions **atoi**() and **atol**() only. **atoq**() is a GNU extension.

NOTES

The nonstandard **atoq**() function is not present in libc 4.6.27 or glibc 2, but is present in libc5 and libc 4.7 (though only as an inline function in <stdlib.h> until libc 5.4.44). The **atoll**() function is present in glibc 2 since version 2.0.2, but not in libc4 or libc5.

SEE ALSO

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

COLOPHON

This page is part of release 3.54 of the Linux man-pages project. A description of the project, and information about reporting bugs, can be found at <http://www.kernel.org/doc/man-pages/>.

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