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():
    _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 **atol**() 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.

ATTRIBUTES

Multithreading (see pthreads(7))

The **atoi**(), **atol**(), and **atoll**() functions are thread-safe with exceptions. These functions can be safely used in multithreaded applications, as long as **setlocale**(3) is not called to change the locale during their execution.

CONFORMING TO

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

NOTES

Linux libc provided **atoq**() as an obsolete name for **atoll**(); **atoq**() is not provided by glibc.

SEE ALSO

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

COLOPHON

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