

NAME

atof - convert ASCII string to double

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

double

```
atof(const char *nptr);
```

DESCRIPTION

The **atof()** function converts the initial portion of the string pointed to by *nptr* to *double* representation.

It is equivalent to:

```
strtod(nptr, (char **)NULL);
```

The decimal point character is defined in the program's locale (category LC_NUMERIC).

IMPLEMENTATION NOTES

The **atof()** function is not thread-safe and also not async-cancel-safe.

The **atof()** function has been deprecated by **strtod()** and should not be used in new code.

ERRORS

The function **atof()** need not affect the value of *errno* on an error.

SEE ALSO

atoi(3), atol(3), strtod(3), strtol(3), strtoul(3)

STANDARDS

The **atof()** function conforms to IEEE Std 1003.1-1990 ("POSIX.1"), ISO/IEC 9899:1990 ("ISO C90"), and ISO/IEC 9899:1999 ("ISO C99").

HISTORY

The **atof()** function appeared in Version 1 AT&T UNIX.