

**NAME**

atof - convert a string to a double

**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*. The behavior is the same as

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

except that **atof()** does not detect errors.

**RETURN VALUE**

The converted value.

**ATTRIBUTES**

**Multithreading** (see **pthread(7)**)

The **atof()** function is thread-safe with exceptions. It can be safely used in multithreaded applications, as long as **setlocale(3)** is not called to change the locale during its execution.

**CONFORMING TO**

SVr4, POSIX.1-2001, 4.3BSD, C89, C99.

**SEE ALSO**

[atoi\(3\)](#), [atol\(3\)](#), [strtod\(3\)](#), [strtol\(3\)](#), [strtoul\(3\)](#)

**COLOPHON**

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.