

NAME

strtos – convert numeric string to short integer, with range-checking.

SYNOPSIS

```
#include "mjsu.h"
```

```
short strtos(const char *str, char **endptr, int base);
```

DESCRIPTION

strtos() converts the initial portion of the string at *str* into a "short int" value, with range-checking.

As such, it is a "short int" version of the standard C function **strtol()**.

RETURNS

If successful, **strtos()** returns the converted value, if any.

If no conversion could be performed (because the string at *str* does not represent a number), 0 is returned and **errno** is set to **EINVAL**.

If the correct value is outside the range of values representable in a **short int**, **SHRT_MAX** or **SHRT_MIN** is returned (according to the sign of the value), and **errno** is set to **ERANGE**.

SEE ALSO

strtol(3).

NOTES

Similarly to **strtol()**, because 0, **SHRT_MIN** and **SHRT_MAX** are returned on error and are also valid returns on success, an application wishing to check for error conditions should set **errno** to 0, then call **strtos()**, then check **errno** and if it is non-zero, assume an error has occurred.

AVAILABILITY

strtos() is written in C, conforming to ANSI X3.159-1989 (hosted program environment).