

**NAME**

**insstr**, **insnstr**, **winsstr**, **winsnstr**, **mvinsstr**, **mvinsnstr**, **mvwinsstr**, **mvwinsnstr** - insert string before cursor in a **curses** window

**SYNOPSIS**

```
#include <curses.h>
int insstr(const char *str);
int insnstr(const char *str, int n);
int winsstr(WINDOW *win, const char *str);
int winsnstr(WINDOW *win, const char *str, int n);

int mvinsstr(int y, int x, const char *str);
int mvinsnstr(int y, int x, const char *str, int n);
int mvwinsstr(WINDOW *win, int y, int x, const char *str);
int mvwinsnstr(WINDOW *win, int y, int x, const char *str, int n);
```

**DESCRIPTION**

These routines insert a character string (as many characters as will fit on the line) before the character under the cursor. All characters to the right of the cursor are shifted right with the possibility of the rightmost characters on the line being lost. The cursor position does not change (after moving to *y*, *x*, if specified). The functions with *n* as the last argument insert a leading substring of at most *n* characters. If  $n \leq 0$ , then the entire string is inserted.

Special characters are handled as in **addch**.

**RETURN VALUE**

All routines that return an integer return **ERR** upon failure and **OK** (SVr4 specifies only "an integer value other than **ERR**") upon successful completion, unless otherwise noted in the preceding routine descriptions.

X/Open defines no error conditions. In this implementation, if the window parameter is null or the str parameter is null, an error is returned.

Functions with a "mv" prefix first perform a cursor movement using **wmove**, and return an error if the position is outside the window, or if the window pointer is null.

**NOTES**

Note that all but **winsnstr** may be macros.

**PORTABILITY**

These functions are described in the XSI Curses standard, Issue 4, which adds const qualifiers to the arguments.

The Single Unix Specification, Version 2 states that **insnstr** and **winsnstr** perform wrapping. This is probably an error, since it makes this group of functions inconsistent. Also, no implementation of curses documents this inconsistency.

**SEE ALSO**

**curses(3X), curs\_util(3X), curs\_clear(3X), curs\_inch(3X).**