NAME

border, **wborder**, **box**, **hline**, **whline**, **wvline**, **wvline**, **mvwhline**, **mvvvline**, **mvwvline** - draw borders and lines in a *curses* window of characters

SYNOPSIS

DESCRIPTION

The **border**, **wborder** and **box** routines draw a box around the edges of a window. Other than the window, each argument is a character with attributes:

```
ls - left side,
rs - right side,
ts - top side,
bs - bottom side,
tl - top left-hand corner,
tr - top right-hand corner,
bl - bottom left-hand corner, and
br - bottom right-hand corner.
```

If any of these arguments is zero, then the corresponding default values (defined in **curses.h**) are used instead:

ACS_VLINE,

ACS VLINE,

ACS HLINE,

ACS_HLINE,

ACS_ULCORNER,

ACS URCORNER,

ACS LLCORNER.

ACS LRCORNER.

box(*win*, *verch*, *horch*) is a shorthand for the following call: **wborder**(*win*, *verch*, *verch*, *horch*, *horch*, *o*, **0**, **0**, **0**).

The **hline** and **whline** functions draw a horizontal (left to right) line using ch starting at the current cursor position in the window. The current cursor position is not changed. The line is at most n characters long, or as many as fit into the window.

The **vline** and **wvline** functions draw a vertical (top to bottom) line using ch starting at the current cursor position in the window. The current cursor position is not changed. The line is at most n characters long, or as many as fit into the window.

RETURN VALUE

All routines return the integer **OK**. The SVr4.0 manual says "or a non-negative integer if **immedok** is set", but this appears to be an error.

X/Open Curses does not specify any error conditions. This implementation returns an error if the window pointer is null.

Functions prefixed with "mv" first perform cursor movement and fail if the position (y, x) is outside the window boundaries.

NOTES

The borders generated by these functions are *inside* borders (this is also true of SVr4 curses, though the fact is not documented).

Note that **border** and **box** may be macros.

PORTABILITY

These functions are described in X/Open Curses, Issue 4.

SEE ALSO

 $curses(3X), curs_outopts(3X)$