NAME

border, **wborder**, **box**, **hline**, **whline**, **vline**, **wvline**, **mvhline**, **mvwhline**, **mvvline**, **mvwvline** – create **curses** borders, horizontal and vertical lines

SYNOPSIS

#include <curses.h>
int border(chtype ls, chtype rs, chtype ts, chtype bs,
  chtype tl, chtype tr, chtype bl, chtype br);
int wborder(WINDOW *win, chtype ls, chtype rs,
  chtype ts, chtype bs, chtype tl, chtype tr,
  chtype bl, chtype br);
int box(WINDOW *win, chtype verch, chtype horch);
int hline(chtype ch, int n);
int whline(WINDOW *win, chtype ch, int n);
int vline(chtype ch, int n);
int wvline(WINDOW *win, chtype ch, int n);
int mvhline(int y, int x, chtype ch, int n);
int mvwhline(WINDOW *, int y, int x, chtype ch, int n);
int mvvline(int y, int x, chtype ch, int n);
int mvwvline(WINDOW *, int y, int x, chtype ch, int n);

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*, **0, 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 does not define any error conditions. This implementation returns an error if the window pointer is null.

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

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 the XSI Curses standard, Issue 4. The standard specifies that they return **ERR** on failure, but specifies no error conditions.

SEE ALSO

ncurses(3NCURSES), **outopts**(3NCURSES).