

NAME

border_set, **wborder_set**, **box_set**, **hline_set**, **whline_set**, **mvhline_set**, **mvwhline_set**, **vline_set**, **wvline_set**, **mvvline_set**, **mvwvline_set** – draw borders and lines in a *curses* window of wide characters

SYNOPSIS

```
#include <curses.h>

int border_set(const cchar_t *ls, const cchar_t *rs,
               const cchar_t *ts, const cchar_t *bs,
               const cchar_t *tl, const cchar_t *tr,
               const cchar_t *bl, const cchar_t *br);
int wborder_set(WINDOW *win,
               const cchar_t *ls, const cchar_t *rs,
               const cchar_t *ts, const cchar_t *bs,
               const cchar_t *tl, const cchar_t *tr,
               const cchar_t *bl, const cchar_t *br);
int box_set(WINDOW *win, const cchar_t *verch,
            const cchar_t *horch);
int hline_set(const cchar_t *wch, int n);
int whline_set(WINDOW *win, const cchar_t *wch, int n);
int mvhline_set(int y, int x, const cchar_t *wch, int n);
int mvwhline_set(WINDOW *win, int y, int x,
                 const cchar_t *wch, int n);
int vline_set(const cchar_t *wch, int n);
int wvline_set(WINDOW *win, const cchar_t *wch, int n);
int mvvline_set(int y, int x, const cchar_t *wch, int n);
int mvwvline_set(WINDOW *win, int y, int x,
                 const cchar_t *wch, int n);
```

DESCRIPTION

The **border_set** and **wborder_set** functions draw a border around the edges of the current or specified window. These functions do not change the cursor position, and do not wrap.

Other than the window, each argument is a complex 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:

- WACS_VLINE**,
- WACS_VLINE**,
- WACS_HLINE**,
- WACS_HLINE**,
- WACS_ULCORNER**,
- WACS_URCORNER**,
- WACS_LLCORNER**, and
- WACS_LRCORNER**.

box_set(win, verch, horch); is a shorthand for the following call:

wborder_set(win, verch, verch,

```
    horch, horch, NULL, NULL, NULL, NULL);
```

The ***line_set** functions use *wch* to draw a line starting at the current cursor position in the window. The line is at most *n* characters long or as many as fit into the window. The current cursor position is not changed.

The **hline_set**, **mvhline_set**, **mvwhline_set**, and **whline_set** functions draw a line proceeding toward the last column of the same line.

The **vline_set**, **mvvline_set**, **mvwvline_set**, and **wvline_set** functions draw a line proceeding toward the last line of the window.

RETURN VALUE

Upon successful completion, these functions return **OK**. Otherwise, they return **ERR**.

Functions using a window parameter return **ERR** if it is null.

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

NOTES

border_set, **hline_set**, **mvhline_set**, **mvvline_set**, **mvwhline_set**, **mvwvline_set**, and **vline_set** may be implemented as macros.

PORTABILITY

X/Open Curses Issue 4 describes these functions. It specifies no error conditions for them.

HISTORY

X/Open Curses Issue 4 (1995) initially specified these functions.

SEE ALSO

curses(3X), **curs_add_wch(3X)**, **curs_border(3X)**, **curs_outopts(3X)**