curs border(3X) curs border(3X)

#### **NAME**

border, wborder, box, hline, whline, vline, wvline, mvhline, mvvhline, mvvvline, mvvvline - create curses borders, horizontal and vertical lines

#### **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:

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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*, *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.

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# **SEE ALSO**

 ${\color{red} \textbf{curses}(3X),\,\textbf{curs\_outopts}(3X)}.$