

NAME

getyx, **getparyx**, **getbegyx**, **getmaxyx** – get *curses* cursor and window coordinates

SYNOPSIS

```
#include <curses.h>
```

```
void getyx(WINDOW *win, int y, int x);
void getbegyx(WINDOW *win, int y, int x);
void getmaxyx(WINDOW *win, int y, int x);
void getparyx(WINDOW *win, int y, int x);
```

DESCRIPTION

These macros obtain the cursor position and bounds information of a *curses* window *win*. **getyx** stores *win*'s cursor position in the variables *y* and *x*. **getmaxyx** stores *win*'s maximum valid line and column numbers in *y* and *x*, respectively. **getbegyx** similarly stores the position of *win*'s origin relative to that of the screen (for **stdscr**, these coordinates are always **0**).

If *win* is a subwindow (see **subwin**(3X)), the **getparyx** macro places the coordinates of its origin relative to its parent window into *y* and *x*, and **-1** into both if it is not.

RETURN VALUE

No return values are defined for macros. Do not use them as the right-hand side of assignment statements.

NOTES

All of these interfaces are implemented as macros. An “&” operator is not necessary before the variables *y* and *x*.

PORTABILITY

These macros are described in X/Open Curses Issue 4.

ncurses also provides functions *getbegy*, *getbegx*, *getcury*, *getcurx*, *getmaxy*, *getmaxx*, *getpary*, and *getparx* for compatibility with System V *curses* that were not standardized; see **curs_legacy**(3X).

Although X/Open Curses does not address the issue, many implementations expose members of the *WINDOW* structure containing values corresponding to these macros. Do not rely on their availability; some implementations make *WINDOW* opaque (that is, they do not allow direct access to its members).

Besides the problem of opaque structures, the data stored in like-named members may not have values of the same meaning across different implementations. For example, the values of *WINDOW._maxx* and *WINDOW._maxy* in *ncurses* have long differed by one from some other implementations. The *getmaxyx* macro hides this difference.

HISTORY

4BSD (1980) introduced *getyx*.

SVr3 (1987) added *getbegyx* and *getmaxyx*. SVr3.1 later that year supplied *etparyx*.

SEE ALSO

curses(3X), **curs_legacy**(3X), **curs_opaque**(3X)