

NAME

touchwin, **touchline**, **untouchwin**, **wtouchln**, **is_linetouched**, **is_wintouched** - control terminal output refresh in a *curses* window

SYNOPSIS

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

```
int touchline(WINDOW *win, int start, int count);
```

```
int touchwin(WINDOW *win);
```

```
int wtouchln(WINDOW *win, int y, int n, int changed);
```

```
int untouchwin(WINDOW *win);
```

```
bool is_linetouched(WINDOW *win, int line);
```

```
bool is_wintouched(WINDOW *win);
```

DESCRIPTION

The **touchwin** and **touchline** routines throw away all optimization information about which parts of the window have been touched, by pretending that the entire window has been drawn on. This is sometimes necessary when using overlapping windows, since a change to one window affects the other window, but the records of which lines have been changed in the other window do not reflect the change. The routine **touchline** only pretends that *count* lines have been changed, beginning with line *start*.

The **untouchwin** routine marks all lines in the window as unchanged since the last call to **wrefresh**.

The **wtouchln** routine makes *n* lines in the window, starting at line *y*, look as if they have (*changed=1*) or have not (*changed=0*) been changed since the last call to **wrefresh**.

The **is_linetouched** and **is_wintouched** routines return **TRUE** if the specified line/window was modified since the last call to **wrefresh**; otherwise they return **FALSE**. In addition, **is_linetouched** returns **ERR** if *line* is not valid for the given window.

RETURN VALUE

All routines return the integer **ERR** upon failure and an integer value other than **ERR** upon successful completion, unless otherwise noted in the preceding routine descriptions.

X/Open Curses does not specify any error conditions. In this implementation

is_linetouched

returns an error if the window pointer is null, or if the line number is outside the window boundaries.

The constant **ERR** is distinct from **TRUE** and **FALSE**, which are the normal return values of this function. Because the function returns a **bool**, returning **ERR** (which is neither **TRUE** nor **FALSE**) may not be supported by the compiler.

To provide error-checking and also match the X/Open function prototype, the **ERR** is provided by a macro named **is_linetouched**. The actual function returns **FALSE** when it detects an error.

wtouchln

returns an error if the window pointer is null, or if the line number is outside the window boundaries.

NOTES

All of these routines except **wtouchln** may be macros.

PORTABILITY

These functions were introduced by SVr4. The Solaris *curses* header file, for instance, defines both an actual function and macro for each. The macros give the same result as the actual functions. SVr4 *curses* does not check the window parameter *win* to ensure that it is not **NULL**; otherwise this implementation behaves the same as SVr4.

X/Open Curses, Issue 4 describes these functions, but defines no error conditions.

SEE ALSO

curses(3X), **curs_refresh(3X)**, **curs_variables(3X)**