

NAME

is_cleared, is_idlok, is_idcok, is_immedok, is_keypad, is_leaveok, is_nodelay, is_notimeout, is_pad, is_scrollok, is_subwin, is_syncok, wgetdelay, wgetparent, wgetscrreg - obtain *curses* window properties

SYNOPSIS

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

```
bool is_cleared(const WINDOW *win);
bool is_idcok(const WINDOW *win);
bool is_idlok(const WINDOW *win);
bool is_immedok(const WINDOW *win);
bool is_keypad(const WINDOW *win);
bool is_leaveok(const WINDOW *win);
bool is_nodelay(const WINDOW *win);
bool is_notimeout(const WINDOW *win);
bool is_pad(const WINDOW *win);
bool is_scrollok(const WINDOW *win);
bool is_subwin(const WINDOW *win);
bool is_syncok(const WINDOW *win);
```

```
WINDOW * wgetparent(const WINDOW *win);
int wgetdelay(const WINDOW *win);
int wgetscrreg(const WINDOW *win, int *top, int *bottom);
```

DESCRIPTION

ncurses provides functions returning properties of a *WINDOW* structure, allowing it to be "opaque" if the application defines the **NCURSES_OPAQUE** preprocessor symbol. *Opacity* in this sense means that the members of *struct* data types are not directly accessible (for instance, through "." or "->" operators), but instead must be queried and/or set via library functions. Advantages of opacity include greater abstraction and improved management of concurrent accesses to data structures, keeping object states coherent.

is_cleared

returns the value set by **clearok(3X)**.

is_idcok

returns the value set by **idcok(3X)**.

is_idlok

returns the value set by **idlok**(3X).

is_immedok

returns the value set by **immedok**(3X).

is_keypad

returns the value set by **keypad**(3X).

is_leaveok

returns the value set by **leaveok**(3X).

is_nodelay

returns the value set by **nodelay**(3X).

is_notimeout

returns the value set by **notimeout**(3X).

is_pad

returns **TRUE** if the window is a pad; that is, it was created by **newpad**(3X).

is_scrollok

returns the value set by **scrollok**(3X).

is_subwin

returns **TRUE** if the window is a subwindow, that is, it was created by **subwin**(3X) or **derwin**(3X).

is_syncok

returns the value set by **syncok**(3X).

wgetdelay

returns the delay timeout set by **wtimeout**(3X).

wgetparent

returns the parent *WINDOW* pointer for subwindows, or **NULL** for windows having no parent.

wgetscrreg

stores the the top and bottom rows for the scrolling margin set by **wsetscrreg**(3X) in the corresponding arguments, returning **ERR** upon failure and **OK** upon successful completion.

RETURN VALUE

These functions return **TRUE** or **FALSE** except as noted.

NOTES

ncurses provides both a C function and a preprocessor macro for each function documented in this page.

PORTABILITY

These routines are specific to *ncurses*. They were not supported on Version 7, BSD or System V implementations. It is recommended that any code depending on *ncurses* extensions be conditioned using **NCURSES_VERSION**.

SEE ALSO

curses(3X), **curs_inopts(3X)**, **curs_outopts(3X)**, **curs_threads(3X)**, **curs_window(3X)**