NAME

termcap, tgetent, tgetnum, tgetflag, tgetstr, tgoto, tputs − terminal independent operation routines

SYNOPSIS

#include <termcap.h>

int tgetent(char ***_bp_, char ***_name_**)**
int tgetflag(char ***_id_)**
int tgetnum(char ***_id_)**
char *tgetstr(char ***_id_, char ****_area_**)**
char *tgoto(char ***_cm_, int** _destcol_**, int** _destline_**)**
int tputs(char ***_cp_, int** _affcnt_**, void (***_outc_**)(int))**

DESCRIPTION

These functions extract and use capabilities from the terminal capability data base **termcap**(5). These are low level routines; see **curses**(3) for a higher level package.

Tgetent extracts the entry for terminal *name* into the buffer at *bp*. *Bp* should be a character buffer of size 1024 and must be retained through all subsequent calls to **tgetnum**, **tgetflag**, and **tgetstr**. **Tgetent** returns −1 if it cannot find a termcap file, 0 if the terminal name given does not have an entry, and 1 if all goes well.

Tgetent uses the following recipe to find the termcap file and entry *name*:

```
if $TERMCAP is itself a termcap entry for name
then
        use $TERMCAP
elif $TERMCAP names a file
then
        use entry name found in that file
elif this is Minix-vmd
then
        if $TERMPATH is defined
        then
                search the termcap files named in $TERMPATH for the first occurance of a name
                entry and use that entry
        else
                the path $HOME/.termcap:/etc/termcap:/usr/etc/termcap" is searched for entry
                name
        fi
fi
```

Tgetnum gets the numeric value of capability *id*, returning −1 if is not given for the terminal. **Tgetflag** returns 1 if the specified capability is present in the terminal's entry, 0 if it is not. **Tgetstr** returns the string value of the capability *id*, places it in the buffer at *area*, and advances the *area* pointer. It decodes the abbreviations for this field described in **termcap**(5), except for cursor addressing and padding information. **Tgetstr** returns NULL if the capability was not found.

Tgoto returns a cursor addressing string decoded from *cm* to go to column *destcol* in line *destline*. It uses the external variables **UP** (from the **up** capability) and **BC** (if **bc** is given rather than **bs**) if necessary to avoid placing **\n**, **ˆD** or **ˆ@** in the returned string. (Programs which call tgoto should be sure to turn off the XTABS bit(s), since **tgoto** may now output a tab. Note that programs using termcap should in general turn off XTABS anyway since some terminals use CTRL-I for other functions, such as non-destructive space.) If a **%** sequence is given which is not understood, then **tgoto** returns OOPS.

Tputs decodes the leading padding information of the string *cp*; *affcnt* gives the number of lines affected by the operation, or 1 if this is not applicable, *outc* is a routine which is called with each character in turn. The external variable **ospeed** should contain the output speed of the terminal as encoded by **stty**(3). The external variable **PC** should contain a pad character to be used (from the **pc** capability) if a null (**ˆ@**) is inappropriate.

SEE ALSO

curses(3), **termcap**(5).

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NOTES

The Minix implementation does not support any of the external variables, only the functions calls. The Minix-vmd termcap does support it all, although noone in his right mind meddles with those variables.