

tgetstr()

The `tgetstr()` function retrieves the value of a String Capability from the terminal entry loaded with `tgetent()`. It's defined in the `"termcap.h"` system header.

String Capabilities often include Control Sequences used to manipulate the terminal (e.g. move the cursor, clear the screen).

```
#include <termcap.h>

// "id" two-character code for the capability
// "area" buffer where the string capability will be stored
char *tgetstr(const char *id, char **area);
```

- If `"area"` is a valid pointer to a buffer, stores the string at `"*area"`, and advances the pointer past the copied data

Returns the String Capability if success. Returns NULL if not found.

The returned string may contain termcap-specific padding syntax (e.g. `"$<1>"`), which needs to be handled if delay is being simulated.

Example Usage

```
/* includes... */
int main(void)
{
    char term_buffer[2048];
    char *termtype;
    char *area;
    char *ap;
    char *clear;

    termtype = getenv("TERM");
    if (!termtype || tgetent(term_buffer, termtype) != 1)
    {
        fprintf(stderr, "Failed to load terminal type.\n");
        return (1);
    }
    area = malloc(1024);
    ap = area;
    // "cl" is the code to clear the screen
    clear = tgetstr("cl", &ap);
    if (clear)
        write(STDOUT_FILENO, clear, strlen(clear));
    else
        printf("Clear screen capability not found.\n");
    free(area);
    return (0);
}
```