

tk

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# Chapter 1

## tk

libtk is a **terminal keyboard bindings helper**. This project is for my own fun, there are many mature alternatives like **ncurses**. libtk does not have all the features that ncurses has, tk is minimalistic, small and simple. tk is a helper to bind functions to keyboard, like in this code:

```
#include <stdio.h>
#include <tk.h>

void clear_screen(void*)
{
    char clear [ 5 ] = { 27, '[', '2', 'J', 0 };
    printf ( "%s", clear );
}

int main()
{
    tk_init();

    tk_bind_key(TK_CTRL_L, clear_screen, NULL);

    tk_finish();

    return 0;
}
```



## Chapter 2

# File Index

### 2.1 File List

Here is a list of all files with brief descriptions:

<a href="#">.ycm_extra_conf.py</a>	5
doc/examples/ <a href="#">ex0.c</a>	6
doc/examples/ <a href="#">ex1.c</a>	7
include/ <a href="#">tk.h</a>	8
src/ <a href="#">tk.c</a>	24





## Chapter 3

# File Documentation

### 3.1 .dox File Reference

### 3.2 .ycm\_extra\_conf.py File Reference

#### Functions

- def `DirectoryOfThisScript` ()
- def `MakeRelativePathsInFlagsAbsolute` (`flags`, `working_directory`)
- def `IsHeaderFile` (`filename`)
- def `GetCompilationInfoForFile` (`filename`)
- def `FlagsForFile` (`filename`, `kwargs`)

#### Variables

- list `flags`
- string `compilation_database_folder` = ""
- `database` = `ycm_core.CompilationDatabase`( `compilation_database_folder` )
- list `SOURCE_EXTENSIONS` = [ '.cpp', '.cxx', '.cc', '.c', '.m', '.mm' ]

#### 3.2.1 Function Documentation

3.2.1.1 `def DirectoryOfThisScript ( )`

3.2.1.2 `def FlagsForFile ( filename, kwargs )`

3.2.1.3 `def GetCompilationInfoForFile ( filename )`

3.2.1.4 `def IsHeaderFile ( filename )`

3.2.1.5 `def MakeRelativePathsInFlagsAbsolute ( flags, working_directory )`

### 3.2.2 Variable Documentation

3.2.2.1 `string compilation_database_folder = "`

3.2.2.2 `database = ycm_core.CompilationDatabase( compilation_database_folder )`

3.2.2.3 `list flags`

**Initial value:**

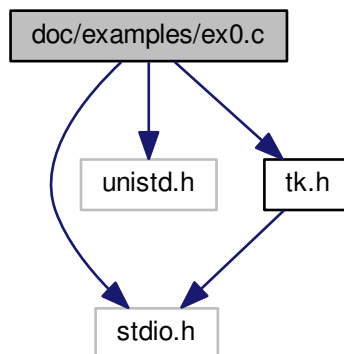
```
1 = [
2   '-Wall',
3   '-Wextra',
4   '-Werror',
5   '-Wno-long-long',
6   '-Wno-variadic-macros',
7   '-fexceptions',
8   '-DNDEBUG',
9   '-I', 'include',
10  '-I', 'header',
11  'c',
12 ]
```

3.2.2.4 `list SOURCE_EXTENSIONS = [ '.cpp', '.cxx', '.cc', '.c', '.m', '.mm' ]`

## 3.3 doc/examples/ex0.c File Reference

```
#include <stdio.h>
#include <unistd.h>
#include "tk.h"
```

Include dependency graph for ex0.c:



### Functions

- void `test_f` (`key_t` k, void \*ptr)
- void `plus_and_minus` (`key_t` k, void \*ptr)
- void `quit` (`key_t` k, void \*ptr)
- int `main` ()

### 3.3.1 Function Documentation

3.3.1.1 `int main ( )`

3.3.1.2 `void plus_and_minus ( key_t k, void * ptr )`

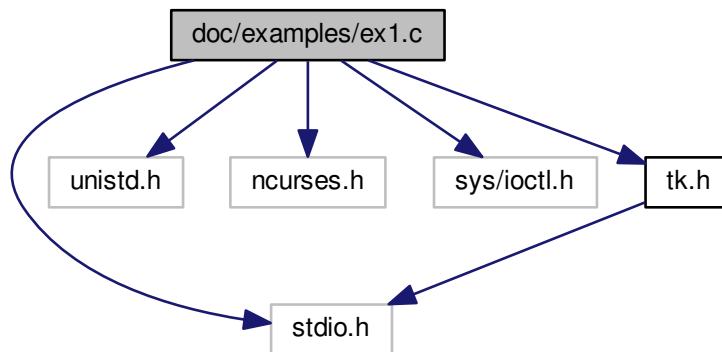
3.3.1.3 `void quit ( key_t k, void * ptr )`

3.3.1.4 `void test_f ( key_t k, void * ptr )`

## 3.4 doc/examples/ex1.c File Reference

```
#include <stdio.h>
#include <unistd.h>
#include <ncurses.h>
#include <sys/ioctl.h>
#include "tk.h"
```

Include dependency graph for ex1.c:



### Macros

- `#define mvcursor(x, y) printf("\033[%d;%dH", x, y)`
- `#define clearsrc() printf("\033[2J");`
- `#define cursor_hide() printf("\033[?25l")`
- `#define cursor_show() printf("\033[?25h")`

### Functions

- `void draw ()`
- `void move_O (key_t k, void *ptr)`
- `int main ()`

## Variables

- `int x = 0`
- `int y = 0`

### 3.4.1 Macro Definition Documentation

3.4.1.1 `#define clearsrc( ) printf("\033[2J");`

3.4.1.2 `#define cursor_hide( ) printf("\033[?25l")`

3.4.1.3 `#define cursor_show( ) printf("\033[?25h")`

3.4.1.4 `#define mvcursor( x, y ) printf("\033[%d;%dH", x, y)`

### 3.4.2 Function Documentation

3.4.2.1 `void draw ( )`

3.4.2.2 `int main ( )`

3.4.2.3 `void move_O ( key_t k, void * ptr )`

### 3.4.3 Variable Documentation

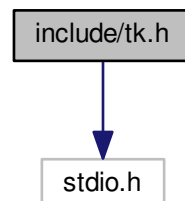
3.4.3.1 `int x = 0`

3.4.3.2 `int y = 0`

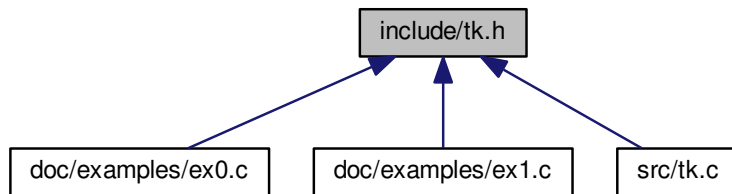
## 3.5 include/tk.h File Reference

```
#include <stdio.h>
```

Include dependency graph for tk.h:



This graph shows which files directly or indirectly include this file:



## Macros

- `#define TK_NUL 0x00`
- `#define TK_CTRL_A 0x01`
- `#define TK_CTRL_B 0x02`
- `#define TK_CTRL_C 0x03`
- `#define TK_CTRL_D 0x04`
- `#define TK_END_OF_FILE TK_CTRL_D`
- `#define TK_CTRL_E 0x05`
- `#define TK_CTRL_F 0x06`
- `#define TK_CTRL_G 0x07`
- `#define TK_CTRL_H 0x08`
- `#define TK_TAB 0x09`
- `#define TK_ENTER 0x0a`
- `#define TK_CTRL_K 0x0b`
- `#define TK_CTRL_M 0x0d`
- `#define TK_CTRL_L 0x0c`
- `#define TK_CTRL_N 0x0e`
- `#define TK_CTRL_O 0x0f`
- `#define TK_CTRL_P 0x10`
- `#define TK_CTRL_Q 0x11`
- `#define TK_CTRL_R 0x12`
- `#define TK_CTRL_S 0x13`
- `#define TK_CTRL_T 0x14`
- `#define TK_CTRL_U 0x15`
- `#define TK_CTRL_V 0x16`
- `#define TK_CTRL_W 0x17`
- `#define TK_CTRL_X 0x18`
- `#define TK_CTRL_Y 0x19`
- `#define TK_CTRL_Z 0x1a`
- `#define TK_ESC 0x1b`
- `#define TK_SPACE 0x20`
- `#define TK_EXCLAMATION_MARK 0x21`
- `#define TK_QUOTATION_MARK 0x22`
- `#define TK_NUMBER_SIGN 0x23`
- `#define TK_DOLLAR 0x24`
- `#define TK_PERCENT 0x25`
- `#define TK_AMPERSAND 0x26`

- `#define TK_APOSTROPHE 0x27`
- `#define TK_PARENTHESIS_OPEN 0x28`
- `#define TK_PARENTHESIS_CLOSE 0x29`
- `#define TK_ASTERISK 0x2a`
- `#define TK_PLUS 0x2b`
- `#define TK_COMMA 0x2c`
- `#define TK_MINUS 0x2d`
- `#define TK_PERIOD 0x2e`
- `#define TK_SLASH 0x2f`
- `#define TK_0 0x30`
- `#define TK_1 0x31`
- `#define TK_2 0x32`
- `#define TK_3 0x33`
- `#define TK_4 0x34`
- `#define TK_5 0x35`
- `#define TK_6 0x36`
- `#define TK_7 0x37`
- `#define TK_8 0x38`
- `#define TK_9 0x39`
- `#define TK_COLON 0x3a`
- `#define TK_SEMICOLON 0x3b`
- `#define TK_LESS_THAN 0x3c`
- `#define TK_EQUAL 0x3d`
- `#define TK_GREATER_THAN 0x3e`
- `#define TK_QUESTION_MARK 0x3f`
- `#define TK_AT 0x40`
- `#define TK_A 0x41`
- `#define TK_B 0x42`
- `#define TK_C 0x43`
- `#define TK_D 0x44`
- `#define TK_E 0x45`
- `#define TK_F 0x46`
- `#define TK_G 0x47`
- `#define TK_H 0x48`
- `#define TK_I 0x49`
- `#define TK_J 0x4a`
- `#define TK_K 0x4b`
- `#define TK_L 0x4c`
- `#define TK_M 0x4d`
- `#define TK_N 0x4e`
- `#define TK_O 0x4f`
- `#define TK_P 0x50`
- `#define TK_Q 0x51`
- `#define TK_R 0x52`
- `#define TK_S 0x53`
- `#define TK_T 0x54`
- `#define TK_U 0x55`
- `#define TK_V 0x56`
- `#define TK_W 0x57`
- `#define TK_X 0x58`
- `#define TK_Y 0x59`
- `#define TK_Z 0x5a`
- `#define TK_SQUARE_BRACKET_OPEN 0x5b`
- `#define TK_BACKSLASH 0x5c`
- `#define TK_SQUARE_BRACKET_CLOSE 0x5d`

- #define [TK\\_CARET](#) 0x5e
- #define [TK\\_UNDERSCORE](#) 0x5f
- #define [TK\\_GRAVE\\_ACCENT](#) 0x60
- #define [TK\\_a](#) 0x61
- #define [TK\\_b](#) 0x62
- #define [TK\\_c](#) 0x63
- #define [TK\\_d](#) 0x64
- #define [TK\\_e](#) 0x65
- #define [TK\\_f](#) 0x66
- #define [TK\\_g](#) 0x67
- #define [TK\\_h](#) 0x68
- #define [TK\\_i](#) 0x69
- #define [TK\\_j](#) 0x6a
- #define [TK\\_k](#) 0x6b
- #define [TK\\_l](#) 0x6c
- #define [TK\\_m](#) 0x6d
- #define [TK\\_n](#) 0x6e
- #define [TK\\_o](#) 0x6f
- #define [TK\\_p](#) 0x70
- #define [TK\\_q](#) 0x71
- #define [TK\\_r](#) 0x72
- #define [TK\\_s](#) 0x73
- #define [TK\\_t](#) 0x74
- #define [TK\\_u](#) 0x75
- #define [TK\\_v](#) 0x76
- #define [TK\\_w](#) 0x77
- #define [TK\\_x](#) 0x78
- #define [TK\\_y](#) 0x79
- #define [TK\\_z](#) 0x7a
- #define [TK\\_CURLY\\_BRACKET\\_OPEN](#) 0x7b
- #define [TK\\_PIPE](#) 0x7c
- #define [TK\\_CURLY\\_BRACKET\\_CLOSE](#) 0x7d
- #define [TK\\_TILDE](#) 0x7e
- #define [TK\\_BACKSPACE](#) 0x7f
- #define [TK\\_F1](#) 0x100
- #define [TK\\_F2](#) 0x101
- #define [TK\\_F3](#) 0x102
- #define [TK\\_F4](#) 0x103
- #define [TK\\_F5](#) 0x104
- #define [TK\\_F6](#) 0x105
- #define [TK\\_F7](#) 0x106
- #define [TK\\_F8](#) 0x107
- #define [TK\\_F9](#) 0x108
- #define [TK\\_F10](#) 0x109
- #define [TK\\_F11](#) 0x10a
- #define [TK\\_F12](#) 0x10b
- #define [TK\\_UP](#) 0x10c
- #define [TK\\_DOWN](#) 0x10d
- #define [TK\\_RIGHT](#) 0x10e
- #define [TK\\_LEFT](#) 0x10f
- #define [TK\\_INSERT](#) 0x110
- #define [TK\\_DELETE](#) 0x111
- #define [TK\\_HOME](#) 0x112
- #define [TK\\_END](#) 0x113
- #define [TK\\_PAGE\\_UP](#) 0x114

- `#define TK_PAGE_DOWN 0x115`
- `#define TK_CTRL_UP 0x116`
- `#define TK_CTRL_DOWN 0x117`
- `#define TK_CTRL_RIGHT 0x118`
- `#define TK_CTRL_LEFT 0x119`
- `#define TK_ALT_0 0x11a`
- `#define TK_ALT_1 0x11b`
- `#define TK_ALT_2 0x11c`
- `#define TK_ALT_3 0x11d`
- `#define TK_ALT_4 0x11e`
- `#define TK_ALT_5 0x11f`
- `#define TK_ALT_6 0x120`
- `#define TK_ALT_7 0x121`
- `#define TK_ALT_8 0x122`
- `#define TK_ALT_9 0x123`
- `#define TK_ALT_A 0x124`
- `#define TK_ALT_B 0x125`
- `#define TK_ALT_C 0x126`
- `#define TK_ALT_D 0x127`
- `#define TK_ALT_E 0x128`
- `#define TK_ALT_F 0x129`
- `#define TK_ALT_G 0x12a`
- `#define TK_ALT_H 0x12b`
- `#define TK_ALT_I 0x12c`
- `#define TK_ALT_J 0x12d`
- `#define TK_ALT_K 0x12e`
- `#define TK_ALT_L 0x12f`
- `#define TK_ALT_M 0x130`
- `#define TK_ALT_N 0x131`
- `#define TK_ALT_O 0x132`
- `#define TK_ALT_P 0x133`
- `#define TK_ALT_Q 0x134`
- `#define TK_ALT_R 0x135`
- `#define TK_ALT_S 0x136`
- `#define TK_ALT_T 0x137`
- `#define TK_ALT_U 0x138`
- `#define TK_ALT_V 0x139`
- `#define TK_ALT_W 0x13a`
- `#define TK_ALT_X 0x13b`
- `#define TK_ALT_Y 0x13c`
- `#define TK_ALT_Z 0x13d`
- `#define TK_ALT_a 0x13e`
- `#define TK_ALT_b 0x13f`
- `#define TK_ALT_c 0x140`
- `#define TK_ALT_d 0x141`
- `#define TK_ALT_e 0x142`
- `#define TK_ALT_f 0x143`
- `#define TK_ALT_g 0x144`
- `#define TK_ALT_h 0x145`
- `#define TK_ALT_i 0x146`
- `#define TK_ALT_j 0x147`
- `#define TK_ALT_k 0x148`
- `#define TK_ALT_l 0x149`
- `#define TK_ALT_m 0x14a`
- `#define TK_ALT_n 0x14b`



- `#define TK_ALT_o 0x14c`
- `#define TK_ALT_p 0x14d`
- `#define TK_ALT_q 0x14e`
- `#define TK_ALT_r 0x14f`
- `#define TK_ALT_s 0x150`
- `#define TK_ALT_t 0x151`
- `#define TK_ALT_u 0x152`
- `#define TK_ALT_v 0x153`
- `#define TK_ALT_w 0x154`
- `#define TK_ALT_x 0x155`
- `#define TK_ALT_y 0x156`
- `#define TK_ALT_z 0x157`
- `#define TK_N_KEY_BIND 0x158`
- `#define TK_PRINTABLE_BEGIN TK_SPACE`
- `#define TK_PRINTABLE_END TK_TILDE`

## Typedefs

- `typedef int key_t`
- `typedef void(* bind_function) (key_t, void *)`

## Functions

- `void tk_init (void)`
- `void tk_finish (void)`
- `void tk_bind_key (key_t k, bind_function f, void *argument_data)`
- `void tk_bind_all_key (bind_function f, void *argument_data)`
- `void tk_bind_all_printable_key (bind_function f, void *argument_data)`
- `int tk_is_printable (key_t k)`
- `void tk_wait (void)`

### 3.5.1 Detailed Description

Declarations of the libtk

### 3.5.2 Macro Definition Documentation

3.5.2.1 `#define TK_0 0x30`

3.5.2.2 `#define TK_1 0x31`

3.5.2.3 `#define TK_2 0x32`

3.5.2.4 `#define TK_3 0x33`

3.5.2.5 `#define TK_4 0x34`

3.5.2.6 `#define TK_5 0x35`

3.5.2.7 `#define TK_6 0x36`

3.5.2.8 `#define TK_7 0x37`

3.5.2.9 `#define TK_8 0x38`

3.5.2.10 `#define TK_9 0x39`

3.5.2.11 `#define TK_A 0x41`

3.5.2.12 `#define TK_a 0x61`

3.5.2.13 `#define TK_ALT_0 0x11a`

3.5.2.14 `#define TK_ALT_1 0x11b`

3.5.2.15 `#define TK_ALT_2 0x11c`

3.5.2.16 `#define TK_ALT_3 0x11d`

3.5.2.17 `#define TK_ALT_4 0x11e`

3.5.2.18 `#define TK_ALT_5 0x11f`

3.5.2.19 `#define TK_ALT_6 0x120`

3.5.2.20 `#define TK_ALT_7 0x121`

3.5.2.21 `#define TK_ALT_8 0x122`

3.5.2.22 `#define TK_ALT_9 0x123`

3.5.2.23 `#define TK_ALT_A 0x124`

3.5.2.24 `#define TK_ALT_a 0x13e`

3.5.2.25 `#define TK_ALT_B 0x125`

3.5.2.26 `#define TK_ALT_b 0x13f`

3.5.2.27 `#define TK_ALT_C 0x126`

3.5.2.28 `#define TK_ALT_c 0x140`

- 3.5.2.29 `#define TK_ALT_D 0x127`
- 3.5.2.30 `#define TK_ALT_d 0x141`
- 3.5.2.31 `#define TK_ALT_E 0x128`
- 3.5.2.32 `#define TK_ALT_e 0x142`
- 3.5.2.33 `#define TK_ALT_F 0x129`
- 3.5.2.34 `#define TK_ALT_f 0x143`
- 3.5.2.35 `#define TK_ALT_G 0x12a`
- 3.5.2.36 `#define TK_ALT_g 0x144`
- 3.5.2.37 `#define TK_ALT_H 0x12b`
- 3.5.2.38 `#define TK_ALT_h 0x145`
- 3.5.2.39 `#define TK_ALT_I 0x12c`
- 3.5.2.40 `#define TK_ALT_i 0x146`
- 3.5.2.41 `#define TK_ALT_J 0x12d`
- 3.5.2.42 `#define TK_ALT_j 0x147`
- 3.5.2.43 `#define TK_ALT_K 0x12e`
- 3.5.2.44 `#define TK_ALT_k 0x148`
- 3.5.2.45 `#define TK_ALT_L 0x12f`
- 3.5.2.46 `#define TK_ALT_l 0x149`
- 3.5.2.47 `#define TK_ALT_M 0x130`
- 3.5.2.48 `#define TK_ALT_m 0x14a`
- 3.5.2.49 `#define TK_ALT_N 0x131`
- 3.5.2.50 `#define TK_ALT_n 0x14b`
- 3.5.2.51 `#define TK_ALT_O 0x132`

3.5.2.52 `#define TK_ALT_o 0x14c`

3.5.2.53 `#define TK_ALT_P 0x133`

3.5.2.54 `#define TK_ALT_p 0x14d`

3.5.2.55 `#define TK_ALT_Q 0x134`

3.5.2.56 `#define TK_ALT_q 0x14e`

3.5.2.57 `#define TK_ALT_R 0x135`

3.5.2.58 `#define TK_ALT_r 0x14f`

3.5.2.59 `#define TK_ALT_S 0x136`

3.5.2.60 `#define TK_ALT_s 0x150`

3.5.2.61 `#define TK_ALT_T 0x137`

3.5.2.62 `#define TK_ALT_t 0x151`

3.5.2.63 `#define TK_ALT_U 0x138`

3.5.2.64 `#define TK_ALT_u 0x152`

3.5.2.65 `#define TK_ALT_V 0x139`

3.5.2.66 `#define TK_ALT_v 0x153`

3.5.2.67 `#define TK_ALT_W 0x13a`

3.5.2.68 `#define TK_ALT_w 0x154`

3.5.2.69 `#define TK_ALT_X 0x13b`

3.5.2.70 `#define TK_ALT_x 0x155`

3.5.2.71 `#define TK_ALT_Y 0x13c`

3.5.2.72 `#define TK_ALT_y 0x156`

3.5.2.73 `#define TK_ALT_Z 0x13d`

3.5.2.74 `#define TK_ALT_z 0x157`

3.5.2.75 `#define TK_AMBERSAND 0x26`

3.5.2.76 `#define TK_APOSTROPHE 0x27`

3.5.2.77 `#define TK_ASTERISK 0x2a`

3.5.2.78 `#define TK_AT 0x40`

3.5.2.79 `#define TK_B 0x42`

3.5.2.80 `#define TK_b 0x62`

3.5.2.81 `#define TK_BACKSLASH 0x5c`

3.5.2.82 `#define TK_BACKSPACE 0x7f`

3.5.2.83 `#define TK_C 0x43`

3.5.2.84 `#define TK_c 0x63`

3.5.2.85 `#define TK_CARET 0x5e`

3.5.2.86 `#define TK_COLON 0x3a`

3.5.2.87 `#define TK_COMMA 0x2c`

3.5.2.88 `#define TK_CTRL_A 0x01`

3.5.2.89 `#define TK_CTRL_B 0x02`

3.5.2.90 `#define TK_CTRL_C 0x03`

3.5.2.91 `#define TK_CTRL_D 0x04`

3.5.2.92 `#define TK_CTRL_DOWN 0x117`

3.5.2.93 `#define TK_CTRL_E 0x05`

3.5.2.94 `#define TK_CTRL_F 0x06`

3.5.2.95 `#define TK_CTRL_G 0x07`

3.5.2.96 `#define TK_CTRL_H 0x08`

3.5.2.97 `#define TK_CTRL_K 0x0b`

3.5.2.98 `#define TK_CTRL_L 0x0c`

3.5.2.99 `#define TK_CTRL_LEFT 0x119`

3.5.2.100 `#define TK_CTRL_M 0x0d`

3.5.2.101 `#define TK_CTRL_N 0x0e`

3.5.2.102 `#define TK_CTRL_O 0x0f`

3.5.2.103 `#define TK_CTRL_P 0x10`

3.5.2.104 `#define TK_CTRL_Q 0x11`

3.5.2.105 `#define TK_CTRL_R 0x12`

3.5.2.106 `#define TK_CTRL_RIGHT 0x118`

3.5.2.107 `#define TK_CTRL_S 0x13`

3.5.2.108 `#define TK_CTRL_T 0x14`

3.5.2.109 `#define TK_CTRL_U 0x15`

3.5.2.110 `#define TK_CTRL_UP 0x116`

3.5.2.111 `#define TK_CTRL_V 0x16`

3.5.2.112 `#define TK_CTRL_W 0x17`

3.5.2.113 `#define TK_CTRL_X 0x18`

3.5.2.114 `#define TK_CTRL_Y 0x19`

3.5.2.115 `#define TK_CTRL_Z 0x1a`

3.5.2.116 `#define TK_CURLY_BRACKET_CLOSE 0x7d`

3.5.2.117 `#define TK_CURLY_BRACKET_OPEN 0x7b`

3.5.2.118 `#define TK_D 0x44`

3.5.2.119 `#define TK_d 0x64`

3.5.2.120 `#define TK_DELETE 0x111`

- 3.5.2.121 `#define TK_DOLLAR 0x24`
- 3.5.2.122 `#define TK_DOWN 0x10d`
- 3.5.2.123 `#define TK_E 0x45`
- 3.5.2.124 `#define TK_e 0x65`
- 3.5.2.125 `#define TK_END 0x113`
- 3.5.2.126 `#define TK_END_OF_FILE TK_CTRL_D`
- 3.5.2.127 `#define TK_ENTER 0x0a`
- 3.5.2.128 `#define TK_EQUAL 0x3d`
- 3.5.2.129 `#define TK_ESC 0x1b`
- 3.5.2.130 `#define TK_EXCLAMATIN_MARK 0x21`
- 3.5.2.131 `#define TK_F 0x46`
- 3.5.2.132 `#define TK_f 0x66`
- 3.5.2.133 `#define TK_F1 0x100`
- 3.5.2.134 `#define TK_F10 0x109`
- 3.5.2.135 `#define TK_F11 0x10a`
- 3.5.2.136 `#define TK_F12 0x10b`
- 3.5.2.137 `#define TK_F2 0x101`
- 3.5.2.138 `#define TK_F3 0x102`
- 3.5.2.139 `#define TK_F4 0x103`
- 3.5.2.140 `#define TK_F5 0x104`
- 3.5.2.141 `#define TK_F6 0x105`
- 3.5.2.142 `#define TK_F7 0x106`
- 3.5.2.143 `#define TK_F8 0x107`

3.5.2.144 `#define TK_F9 0x108`

3.5.2.145 `#define TK_G 0x47`

3.5.2.146 `#define TK_g 0x67`

3.5.2.147 `#define TK_GRAVE_ACCENT 0x60`

3.5.2.148 `#define TK_GREATER_THAN 0x3e`

3.5.2.149 `#define TK_H 0x48`

3.5.2.150 `#define TK_h 0x68`

3.5.2.151 `#define TK_HOME 0x112`

3.5.2.152 `#define TK_I 0x49`

3.5.2.153 `#define TK_i 0x69`

3.5.2.154 `#define TK_INSERT 0x110`

3.5.2.155 `#define TK_J 0x4a`

3.5.2.156 `#define TK_j 0x6a`

3.5.2.157 `#define TK_K 0x4b`

3.5.2.158 `#define TK_k 0x6b`

3.5.2.159 `#define TK_L 0x4c`

3.5.2.160 `#define TK_l 0x6c`

3.5.2.161 `#define TK_LEFT 0x10f`

3.5.2.162 `#define TK_LESS_THAN 0x3c`

3.5.2.163 `#define TK_M 0x4d`

3.5.2.164 `#define TK_m 0x6d`

3.5.2.165 `#define TK_MINUS 0x2d`

3.5.2.166 `#define TK_N 0x4e`



3.5.2.167 `#define TK_n 0x6e`

3.5.2.168 `#define TK_N_KEY_BIND 0x158`

3.5.2.169 `#define TK_NUL 0x00`

3.5.2.170 `#define TK_NUMBER_SIGN 0x23`

3.5.2.171 `#define TK_O 0x4f`

3.5.2.172 `#define TK_o 0x6f`

3.5.2.173 `#define TK_P 0x50`

3.5.2.174 `#define TK_p 0x70`

3.5.2.175 `#define TK_PAGE_DOWN 0x115`

3.5.2.176 `#define TK_PAGE_UP 0x114`

3.5.2.177 `#define TK_PARENTHESIS_CLOSE 0x29`

3.5.2.178 `#define TK_PARENTHESIS_OPEN 0x28`

3.5.2.179 `#define TK_PERCENT 0x25`

3.5.2.180 `#define TK_PERIOD 0x2e`

3.5.2.181 `#define TK_PIPE 0x7c`

3.5.2.182 `#define TK_PLUS 0x2b`

3.5.2.183 `#define TK_PRINTABLE_BEGIN TK_SPACE`

3.5.2.184 `#define TK_PRINTABLE_END TK_TILDE`

3.5.2.185 `#define TK_Q 0x51`

3.5.2.186 `#define TK_q 0x71`

3.5.2.187 `#define TK_QUESTION_MARK 0x3f`

3.5.2.188 `#define TK_QUOTATION_MARK 0x22`

3.5.2.189 `#define TK_R 0x52`

3.5.2.190 `#define TK_r 0x72`

3.5.2.191 `#define TK_RIGHT 0x10e`

3.5.2.192 `#define TK_S 0x53`

3.5.2.193 `#define TK_s 0x73`

3.5.2.194 `#define TK_SEMICOLON 0x3b`

3.5.2.195 `#define TK_SLASH 0x2f`

3.5.2.196 `#define TK_SPACE 0x20`

3.5.2.197 `#define TK_SQUARE_BRACKET_CLOSE 0x5d`

3.5.2.198 `#define TK_SQUARE_BRACKET_OPEN 0x5b`

3.5.2.199 `#define TK_T 0x54`

3.5.2.200 `#define TK_t 0x74`

3.5.2.201 `#define TK_TAB 0x09`

3.5.2.202 `#define TK_TILDE 0x7e`

3.5.2.203 `#define TK_U 0x55`

3.5.2.204 `#define TK_u 0x75`

3.5.2.205 `#define TK_UNDERSCORE 0x5f`

3.5.2.206 `#define TK_UP 0x10c`

3.5.2.207 `#define TK_V 0x56`

3.5.2.208 `#define TK_v 0x76`

3.5.2.209 `#define TK_W 0x57`

3.5.2.210 `#define TK_w 0x77`

3.5.2.211 `#define TK_X 0x58`

3.5.2.212 `#define TK_x 0x78`

3.5.2.213 `#define TK_Y 0x59`

3.5.2.214 `#define TK_y 0x79`

3.5.2.215 `#define TK_Z 0x5a`

3.5.2.216 `#define TK_z 0x7a`

### 3.5.3 Typedef Documentation

3.5.3.1 `typedef void(* bind_function)(key_t, void *)`

3.5.3.2 `typedef int key_t`

### 3.5.4 Function Documentation

3.5.4.1 `void tk_bind_all_key ( bind_function f, void * argument_data )`

Bind all keys to the function  $f$ .

Parameters

$f$	the function callback
$argument\_data$	argument to pass to the function

3.5.4.2 `void tk_bind_all_printable_key ( bind_function f, void * argument_data )`

Bind all printable keys (character). Does not bind the special keys, neither the escape keys.

Parameters

$f$	the function callback
$argument\_data$	argument to pass to the function

3.5.4.3 `void tk_bind_key ( key_t k, bind_function f, void * argument_data )`

Bind a key to a functions. Bind the key  $k$  to a function  $f$  and will pass to  $f$ .

Parameters

$k$	the key to bind
$f$	the function callback
$argument\_data$	argument to pass to the function

#### 3.5.4.4 void tk\_finish ( void )

Finish all internal structures of the libtk.

#### 3.5.4.5 void tk\_init ( void )

Initialize all the internal structures of the libtk. This includes all the necessary changes in the terminal instance with `termios.h`. The thread that will monitor the key presses will be launched here, in `tk_init`.

#### 3.5.4.6 int tk\_is\_printable ( key\_t k )

Returns whether the key `k` is printable.

##### Parameters

<code>k</code>	key tk code
----------------	-------------

##### Returns

1 if the string is printable, 0 otherwise.

#### 3.5.4.7 void tk\_wait ( void )

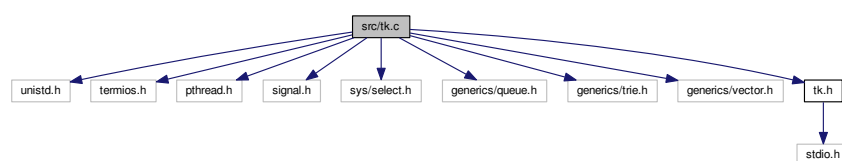
Wait until the tk thread exits.

## 3.6 README.md File Reference

## 3.7 src/tk.c File Reference

```
#include <unistd.h>
#include <termios.h>
#include <pthread.h>
#include <signal.h>
#include <sys/select.h>
#include <generics/queue.h>
#include <generics/trie.h>
#include <generics/vector.h>
#include "tk.h"
```

Include dependency graph for `tk.c`:



## Functions

- void [initialize\\_tk\\_structures](#) (void)
- void \* [getchar\\_monitor\\_and\\_dispatch](#) (void \*d)
- int [process\\_escape](#) (void)
- void [add\\_escape\\_sequence](#) (char \*seq, [key\\_t](#) k)
- void [sigint\\_handler](#) (int sig)
- void [call\\_bind](#) ([key\\_t](#) k)
- int [tk\\_is\\_printable](#) ([key\\_t](#) k)
- void [tk\\_init](#) (void)
- void [tk\\_finish](#) (void)
- void [tk\\_bind\\_key](#) ([key\\_t](#) k, [bind\\_function](#) f, void \*argument\_data)
- void [tk\\_bind\\_all\\_key](#) ([bind\\_function](#) f, void \*argument\_data)
- void [tk\\_bind\\_all\\_printable\\_key](#) ([bind\\_function](#) f, void \*argument\_data)
- void [tk\\_wait](#) (void)

## Variables

- struct termios [old\\_term\\_attr](#)
- struct termios [new\\_term\\_attr](#)
- struct termios [escape\\_term\\_attr](#)
- pthread\_t [getchar\\_monitor\\_thread](#)
- int [tk\\_pipe](#) [2]
- queue\_t [binded\\_function](#) [TK\_N\_KEY\_BIND]
- queue\_t [binded\\_argument](#) [TK\_N\_KEY\_BIND]
- trie\_t [escape\\_sequences](#)

### 3.7.1 Detailed Description

Implementations of the libtk

### 3.7.2 Function Documentation

**3.7.2.1** void [add\\_escape\\_sequence](#) ( char \* *seq*, [key\\_t](#) *k* )

**3.7.2.2** void [call\\_bind](#) ( [key\\_t](#) *k* )

**3.7.2.3** void \* [getchar\\_monitor\\_and\\_dispatch](#) ( void \* *d* )

Monitor the keys and dispatch to the bind functions.

Parameters

<i>d</i>	data
----------	------

**3.7.2.4** void [initialize\\_tk\\_structures](#) ( void )

3.7.2.5 `int process_escape ( void )`

3.7.2.6 `void sigint_handler ( int sig )`

3.7.2.7 `void tk_bind_all_key ( bind_function f, void * argument_data )`

Bind all keys to the function *f*.

Parameters

<i>f</i>	the function callback
<i>argument_data</i>	argument to pass to the function

3.7.2.8 `void tk_bind_all_printable_key ( bind_function f, void * argument_data )`

Bind all printable keys (character). Does not bind the special keys, neither the escape keys.

Parameters

<i>f</i>	the function callback
<i>argument_data</i>	argument to pass to the function

3.7.2.9 `void tk_bind_key ( key_t k, bind_function f, void * argument_data )`

Bind a key to a functions. Bind the key *k* to a function *f* and will pass to *f*.

Parameters

<i>k</i>	the key to bind
<i>f</i>	the function callback
<i>argument_data</i>	argument to pass to the function

3.7.2.10 `void tk_finish ( void )`

Finish all internal structures of the libtk.

3.7.2.11 `void tk_init ( void )`

Initialize all the internal structures of the libtk. This includes all the necessary changes in the terminal instance with `termios.h`. The thread that will monitor the key presses will be launched here, in `tk_init`.

3.7.2.12 `int tk_is_printable ( key_t k )`

Returns whether the key *k* is printable.

## Parameters

<i>k</i>	key tk code
----------	-------------

## Returns

1 if the string is printable, 0 otherwise.

## 3.7.2.13 void tk\_wait ( void )

Wait until the tk thread exits.

## 3.7.3 Variable Documentation

## 3.7.3.1 queue\_t binded\_argument[TK\_N\_KEY\_BIND]

## 3.7.3.2 queue\_t binded\_function[TK\_N\_KEY\_BIND]

## 3.7.3.3 trie\_t escape\_sequences

## 3.7.3.4 struct termios escape\_term\_attr

## 3.7.3.5 pthread\_t getchar\_monitor\_thread

## 3.7.3.6 struct termios new\_term\_attr

## 3.7.3.7 struct termios old\_term\_attr

## 3.7.3.8 int tk\_pipe[2]





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