tk

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Chapter 1

tk

libtk is a helper for **t**erminal **k**eyboard bindings. 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 just a helper to bind functions to keyboard, like in this code, where the keys Ctrl+L are binded with the function clear screen (common convention em cli/tui programs):

```
#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;
}
```

dependencies

- libgenerics;

install

```
1 $ make
2 $ sudo make install
```

uninstall

```
1 $ sudo make uninstall
```

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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

tk_bind 7

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

include/tk.h 9
src/tk.c 25

Chapter 4

Class Documentation

4.1 tk_bind Struct Reference

Public Attributes

- bind_function function
- void * argument

4.1.1 Member Data Documentation

4.1.1.1 void* tk_bind::argument

4.1.1.2 bind_function tk_bind::function

The documentation for this struct was generated from the following file:

- src/tk.c

Chapter 5

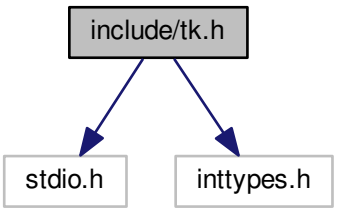
File Documentation

5.1 .dox File Reference

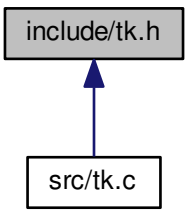
5.2 include/tk.h File Reference

```
#include <stdio.h>
#include <inttypes.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_ALL_KEY TK_NUL
- #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_EOF TK_ENTER
- #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_EXCLAMATIN_MARK 0x21
- #define TK_QUOTATION_MARK 0x22
- #define TK_NUMBER_SIGN 0x23
- #define TK_DOLLAR 0x24
- #define TK_PERCENT 0x25
- #define TK_AMBERSAND 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 0x504f1b
- #define TK_F2 0x514f1b
- #define TK_F3 0x524f1b
- #define TK_F4 0x534f1b
- #define TK_F5 0x7e35315b1b
- #define TK_F6 0x7e37315b1b
- #define TK_F7 0x7e38315b1b
- #define TK_F8 0x7e39315b1b
- #define TK_F9 0x7e30325b1b
- #define TK_F10 0x7e31325b1b
- #define TK_F11 0x7e33325b1b
- #define TK_F12 0x7e34325b1b
- #define TK_UP 0x415b1b
- #define TK_DOWN 0x425b1b
- #define TK_RIGHT 0x435b1b
- #define TK_LEFT 0x445b1b
- #define TK_HOME 0x7e315b1b
- #define TK_INSERT 0x7e325b1b
- #define TK_DELETE 0x7e335b1b
- #define TK_END 0x7e345b1b
- #define TK_PAGE_DOWN 0x7e365b1b
- #define TK_PAGE_UP 0x7e355b1b
- #define TK_CTRL_UP 0x414f1b
- #define TK_CTRL_DOWN 0x424f1b
- #define TK_CTRL_RIGHT 0x434f1b
- #define TK_CTRL_LEFT 0x444f1b
- #define TK_ALT_(CODE) ((CODE<<8)|TK_ESC)
- #define TK_ALT_0 0x301b
- #define TK_ALT_1 0x311b
- #define TK_ALT_2 0x321b
- #define TK_ALT_3 0x331b
- #define TK_ALT_4 0x341b
- #define TK_ALT_5 0x351b
- #define TK_ALT_6 0x361b
- #define TK_ALT_7 0x371b
- #define TK_ALT_8 0x381b

- #define TK_ALT_9 0x391b
- #define TK_ALT_A 0x411b
- #define TK_ALT_B 0x421b
- #define TK_ALT_C 0x431b
- #define TK_ALT_D 0x441b
- #define TK_ALT_E 0x451b
- #define TK_ALT_F 0x461b
- #define TK_ALT_G 0x471b
- #define TK_ALT_H 0x481b
- #define TK_ALT_I 0x491b
- #define TK_ALT_J 0x4a1b
- #define TK_ALT_K 0x4b1b
- #define TK_ALT_L 0x4c1b
- #define TK_ALT_M 0x4d1b
- #define TK_ALT_N 0x4e1b
- #define TK_ALT_O 0x4f1b
- #define TK_ALT_P 0x501b
- #define TK_ALT_Q 0x511b
- #define TK_ALT_R 0x521b
- #define TK_ALT_S 0x531b
- #define TK_ALT_T 0x541b
- #define TK_ALT_U 0x551b
- #define TK_ALT_V 0x561b
- #define TK_ALT_W 0x571b
- #define TK_ALT_X 0x581b
- #define TK_ALT_Y 0x591b
- #define TK_ALT_Z 0x5a1b
- #define TK_ALT_a 0x611b
- #define TK_ALT_b 0x621b
- #define TK_ALT_c 0x631b
- #define TK_ALT_d 0x641b
- #define TK_ALT_e 0x651b
- #define TK_ALT_f 0x661b
- #define TK_ALT_g 0x671b
- #define TK_ALT_h 0x681b
- #define TK_ALT_i 0x691b
- #define TK_ALT_j 0x6a1b
- #define TK_ALT_k 0x6b1b
- #define TK_ALT_l 0x6c1b
- #define TK_ALT_m 0x6d1b
- #define TK_ALT_n 0x6e1b
- #define TK_ALT_o 0x6f1b
- #define TK_ALT_p 0x701b
- #define TK_ALT_q 0x711b
- #define TK_ALT_r 0x721b
- #define TK_ALT_s 0x731b
- #define TK_ALT_t 0x741b
- #define TK_ALT_u 0x751b
- #define TK_ALT_v 0x761b
- #define TK_ALT_w 0x771b
- #define TK_ALT_x 0x781b
- #define TK_ALT_y 0x791b
- #define TK_ALT_z 0x7a1b
- #define TK_PRINTABLE_BEGIN TK_SPACE
- #define TK_PRINTABLE_END TK_TILDE

Typedefs

- typedef uint64_t tkey_t
- typedef void(∗ bind_function) (tkey_t, void ∗)

Functions

- void tk_init (void)
- void tk_finish (void)
- void tk_bind_key (tkey_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 (tkey_t k)
- void tk_wait (void)

5.2.1 Detailed Description

Declarations of the libtk

5.2.2 Macro Definition Documentation

5.2.2.1 #define TK_0 0x30

5.2.2.2 #define TK_1 0x31

5.2.2.3 #define TK_2 0x32

5.2.2.4 #define TK_3 0x33

5.2.2.5 #define TK_4 0x34

5.2.2.6 #define TK_5 0x35

5.2.2.7 #define TK_6 0x36

5.2.2.8 #define TK_7 0x37

5.2.2.9 #define TK_8 0x38

5.2.2.10 #define TK_9 0x39

5.2.2.11 #define TK_A 0x41

5.2.2.12 #define TK_a 0x61

5.2.2.13 #define TK_ALL_KEY TK_NUL

5.2.2.14 #define TK_ALT_(*CODE*) ((CODE<<8)|TK_ESC)

5.2.2.15 #define TK_ALT_0 0x301b

5.2.2.16 #define TK_ALT_1 0x311b

5.2.2.17 #define TK_ALT_2 0x321b

5.2.2.18 #define TK_ALT_3 0x331b

5.2.2.19 #define TK_ALT_4 0x341b

5.2.2.20 #define TK_ALT_5 0x351b

5.2.2.21 #define TK_ALT_6 0x361b

5.2.2.22 #define TK_ALT_7 0x371b

5.2.2.23 #define TK_ALT_8 0x381b

5.2.2.24 #define TK_ALT_9 0x391b

5.2.2.25 #define TK_ALT_A 0x411b

5.2.2.26 #define TK_ALT_a 0x611b

5.2.2.27 #define TK_ALT_B 0x421b

5.2.2.28 #define TK_ALT_b 0x621b

5.2.2.29 #define TK_ALT_C 0x431b

5.2.2.30 #define TK_ALT_c 0x631b

5.2.2.31 #define TK_ALT_D 0x441b

5.2.2.32 #define TK_ALT_d 0x641b

5.2.2.33 #define TK_ALT_E 0x451b

5.2.2.34 #define TK_ALT_e 0x651b

5.2.2.35 #define TK_ALT_F 0x461b

5.2.2.36 #define TK_ALT_f 0x661b

5.2.2.37 #define TK_ALT_G 0x471b

5.2.2.38 #define TK_ALT_g 0x671b

5.2.2.39 #define TK_ALT_H 0x481b

5.2.2.40 #define TK_ALT_h 0x681b

5.2.2.41 #define TK_ALT_I 0x491b

5.2.2.42 #define TK_ALT_i 0x691b

5.2.2.43 #define TK_ALT_J 0x4a1b

5.2.2.44 #define TK_ALT_j 0x6a1b

5.2.2.45 #define TK_ALT_K 0x4b1b

5.2.2.46 #define TK_ALT_k 0x6b1b

5.2.2.47 #define TK_ALT_L 0x4c1b

5.2.2.48 #define TK_ALT_l 0x6c1b

5.2.2.49 #define TK_ALT_M 0x4d1b

5.2.2.50 #define TK_ALT_m 0x6d1b

5.2.2.51 #define TK_ALT_N 0x4e1b

5.2.2.52 #define TK_ALT_n 0x6e1b

5.2.2.53 #define TK_ALT_O 0x4f1b

5.2.2.54 #define TK_ALT_o 0x6f1b

5.2.2.55 #define TK_ALT_P 0x501b

5.2.2.56 #define TK_ALT_p 0x701b

5.2.2.57 #define TK_ALT_Q 0x511b

5.2.2.58 #define TK_ALT_q 0x711b

5.2.2.59 #define TK_ALT_R 0x521b

5.2.2.60 #define TK_ALT_r 0x721b

5.2.2.61 #define TK_ALT_S 0x531b

5.2.2.62 #define TK_ALT_s 0x731b

5.2.2.63 #define TK_ALT_T 0x541b

5.2.2.64 #define TK_ALT_t 0x741b

5.2.2.65 #define TK_ALT_U 0x551b

5.2.2.66 #define TK_ALT_u 0x751b

5.2.2.67 #define TK_ALT_V 0x561b

5.2.2.68 #define TK_ALT_v 0x761b

5.2.2.69 #define TK_ALT_W 0x571b

5.2.2.70 #define TK_ALT_w 0x771b

5.2.2.71 #define TK_ALT_X 0x581b

5.2.2.72 #define TK_ALT_x 0x781b

5.2.2.73 #define TK_ALT_Y 0x591b

5.2.2.74 #define TK_ALT_y 0x791b

5.2.2.75 #define TK_ALT_Z 0x5a1b

5.2.2.76 #define TK_ALT_z 0x7a1b

5.2.2.77 #define TK_AMBERSAND 0x26

5.2.2.78 #define TK_APOSTROPHE 0x27

5.2.2.79 #define TK_ASTERISK 0x2a

5.2.2.80 #define TK_AT 0x40

5.2.2.81 #define TK_B 0x42

5.2.2.82 #define TK_b 0x62

5.2.2.83 #define TK_BACKSLASH 0x5c

5.2.2.84 #define TK_BACKSPACE 0x7f

5.2.2.85 #define TK_C 0x43

5.2.2.86 #define TK_c 0x63

5.2.2.87 #define TK_CARET 0x5e

5.2.2.88 #define TK_COLON 0x3a

5.2.2.89 #define TK_COMMA 0x2c

5.2.2.90 #define TK_CTRL_A 0x01

5.2.2.91 #define TK_CTRL_B 0x02

5.2.2.92 #define TK_CTRL_C 0x03

5.2.2.93 #define TK_CTRL_D 0x04

5.2.2.94 #define TK_CTRL_DOWN 0x424f1b

5.2.2.95 #define TK_CTRL_E 0x05

5.2.2.96 #define TK_CTRL_F 0x06

5.2.2.97 #define TK_CTRL_G 0x07

5.2.2.98 #define TK_CTRL_H 0x08

5.2.2.99 #define TK_CTRL_K 0x0b

5.2.2.100 #define TK_CTRL_L 0x0c

5.2.2.101 #define TK_CTRL_LEFT 0x444f1b

5.2.2.102 #define TK_CTRL_M 0x0d

5.2.2.103 #define TK_CTRL_N 0x0e

5.2.2.104 #define TK_CTRL_O 0x0f

5.2.2.105 #define TK_CTRL_P 0x10

5.2.2.106 #define TK_CTRL_Q 0x11

5.2.2.107 #define TK_CTRL_R 0x12

5.2.2.108 #define TK_CTRL_RIGHT 0x434f1b

5.2.2.109 #define TK_CTRL_S 0x13

5.2.2.110 #define TK_CTRL_T 0x14

5.2.2.111 #define TK_CTRL_U 0x15

5.2.2.112 #define TK_CTRL_UP 0x414f1b

5.2.2.113 #define TK_CTRL_V 0x16

5.2.2.114 #define TK_CTRL_W 0x17

5.2.2.115 #define TK_CTRL_X 0x18

5.2.2.116 #define TK_CTRL_Y 0x19

5.2.2.117 #define TK_CTRL_Z 0x1a

5.2.2.118 #define TK_CURLY_BRACKET_CLOSE 0x7d

5.2.2.119 #define TK_CURLY_BRACKET_OPEN 0x7b

5.2.2.120 #define TK_D 0x44

5.2.2.121 #define TK_d 0x64

5.2.2.122 #define TK_DELETE 0x7e335b1b

5.2.2.123 #define TK_DOLLAR 0x24

5.2.2.124 #define TK_DOWN 0x425b1b

5.2.2.125 #define TK_E 0x45

5.2.2.126 #define TK_e 0x65

5.2.2.127 #define TK_END 0x7e345b1b

5.2.2.128 #define TK_END_OF_FILE TK_CTRL_D

5.2.2.129 #define TK_ENTER 0x0a

5.2.2.130 #define TK_EOF TK_ENTER

5.2.2.131 #define TK_EQUAL 0x3d

5.2.2.132 #define TK_ESC 0x1b

5.2.2.133 #define TK_EXCLAMATIN_MARK 0x21

5.2.2.134 #define TK_F 0x46

5.2.2.135 #define TK_f 0x66

5.2.2.136 #define TK_F1 0x504f1b

5.2.2.137 #define TK_F10 0x7e31325b1b

5.2.2.138 #define TK_F11 0x7e33325b1b

5.2.2.139 #define TK_F12 0x7e34325b1b

5.2.2.140 #define TK_F2 0x514f1b

5.2.2.141 #define TK_F3 0x524f1b

5.2.2.142 #define TK_F4 0x534f1b

5.2.2.143 #define TK_F5 0x7e35315b1b

5.2.2.144 #define TK_F6 0x7e37315b1b

5.2.2.145 #define TK_F7 0x7e38315b1b

5.2.2.146 #define TK_F8 0x7e39315b1b

5.2.2.147 #define TK_F9 0x7e30325b1b

5.2.2.148 #define TK_G 0x47

5.2.2.149 #define TK_g 0x67

5.2.2.150 #define TK_GRAVE_ACCENT 0x60

5.2.2.151 #define TK_GREATER_THAN 0x3e

5.2.2.152 #define TK_H 0x48

5.2.2.153 #define TK_h 0x68

5.2.2.154 #define TK_HOME 0x7e315b1b

5.2.2.155 #define TK_I 0x49

5.2.2.156 #define TK_i 0x69

5.2.2.157 #define TK_INSERT 0x7e325b1b

5.2.2.158 #define TK_J 0x4a

5.2.2.159 #define TK_j 0x6a

5.2.2.160 #define TK_K 0x4b

5.2.2.161 #define TK_k 0x6b

5.2.2.162 #define TK_L 0x4c

5.2.2.163 #define TK_l 0x6c

5.2.2.164 #define TK_LEFT 0x445b1b

5.2.2.165 #define TK_LESS_THAN 0x3c

5.2.2.166 #define TK_M 0x4d

5.2.2.167 #define TK_m 0x6d

5.2.2.168 #define TK_MINUS 0x2d

5.2.2.169 #define TK_N 0x4e

5.2.2.170 #define TK_n 0x6e

5.2.2.171 #define TK_NUL 0x00

5.2.2.172 #define TK_NUMBER_SIGN 0x23

5.2.2.173 #define TK_O 0x4f

5.2.2.174 #define TK_o 0x6f

5.2.2.175 #define TK_P 0x50

5.2.2.176 #define TK_p 0x70

5.2.2.177 #define TK_PAGE_DOWN 0x7e365b1b

5.2.2.178 #define TK_PAGE_UP 0x7e355b1b

5.2.2.179 #define TK_PARENTHESIS_CLOSE 0x29

5.2.2.180 #define TK_PARENTHESIS_OPEN 0x28

5.2.2.181 #define TK_PERCENT 0x25

5.2.2.182 #define TK_PERIOD 0x2e

5.2.2.183 #define TK_PIPE 0x7c

5.2.2.184 #define TK_PLUS 0x2b

5.2.2.185 #define TK_PRINTABLE_BEGIN TK_SPACE

5.2.2.186 #define TK_PRINTABLE_END TK_TILDE

5.2.2.187 #define TK_Q 0x51

5.2.2.188 #define TK_q 0x71

5.2.2.189 #define TK_QUESTION_MARK 0x3f

5.2.2.190 #define TK_QUOTATION_MARK 0x22

5.2.2.191 #define TK_R 0x52

5.2.2.192 #define TK_r 0x72

5.2.2.193 #define TK_RIGHT 0x435b1b

5.2.2.194 #define TK_S 0x53

5.2.2.195 #define TK_s 0x73

5.2.2.196 #define TK_SEMICOLON 0x3b

5.2.2.197 #define TK_SLASH 0x2f

5.2.2.198 #define TK_SPACE 0x20

5.2.2.199 #define TK_SQUARE_BRACKET_CLOSE 0x5d

5.2.2.200 #define TK_SQUARE_BRACKET_OPEN 0x5b

5.2.2.201 #define TK_T 0x54

5.2.2.202 #define TK_t 0x74

5.2.2.203 #define TK_TAB 0x09

5.2.2.204 #define TK_TILDE 0x7e

5.2.2.205 #define TK_U 0x55

5.2.2.206 #define TK_u 0x75

5.2.2.207 #define TK_UNDERSCORE 0x5f

5.2.2.208 #define TK_UP 0x415b1b

5.2.2.209 #define TK_V 0x56

5.2.2.210 #define TK_v 0x76

5.2.2.211 #define TK_W 0x57

5.2.2.212 #define TK_w 0x77

5.2.2.213 #define TK_X 0x58

5.2.2.214 #define TK_x 0x78

5.2.2.215 #define TK_Y 0x59

5.2.2.216 #define TK_y 0x79

5.2.2.217 #define TK_Z 0x5a

5.2.2.218 #define TK_z 0x7a

5.2.3 Typedef Documentation

5.2.3.1 typedef void(* bind_function) (tkey_t, void *)

5.2.3.2 typedef uint64_t tkey_t

5.2.4 Function Documentation

5.2.4.1 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

5.2.4.2 void tk_bind_all_printable_key (bind_function *f,* void * *argument_data*)

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

Parameters

f	the function callback
argument_data	argument to pass to the function

5.2.4.3 void tk_bind_key (tkey_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

5.2.4.4 void tk_finish (void)

Finish all internal structures of the libtk.

5.2.4.5 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`.

5.2.4.6 int tk_is_printable (tkey_t *k*)

Returns whether the key `k` is printable.

Parameters

k	key tk code

Returns

1 if the string is printable, 0 otherwise.

5.2.4.7 void tk_wait (void)

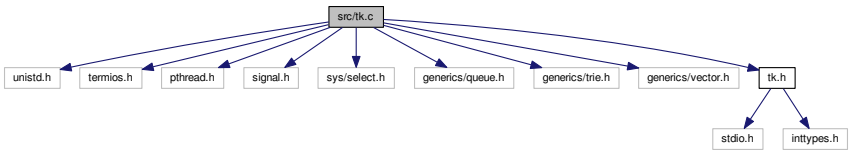
Wait until the tk thread exits.

5.3 README.md File Reference

5.4 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:



Classes

- struct tk_bind

Typedefs

- typedef struct tk_bind tk_bind

Functions

- void initialize_tk_structures (void)
- void * getchar_monitor_and_dispatch (void *d)
- int process_escape (void)
- void add_escape_sequence (char *seq, tkey_t k)
- void sigint_handler (int sig)
- void exec_queue (queue_t *bind_queue, tkey_t k)
- void call_bind (tkey_t k)
- int tk_is_printable (tkey_t k)
- void tk_init (void)
- void destroy_bind_queues (tnode_t *node)
- void tk_finish (void)
- void tk_bind_key (tkey_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
- trie_t bind
- int tk_pipe [2]

5.4.1 Detailed Description

Implementations of the libtk

5.4.2 Typedef Documentation

5.4.2.1 typedef struct tk_bind tk_bind

5.4.3 Function Documentation

5.4.3.1 void add_escape_sequence (char * *seq*, tkey_t *k*)

5.4.3.2 void call_bind (tkey_t *k*)

5.4.3.3 void destroy_bind_queues (tnode_t * *node*)

5.4.3.4 void exec_queue (queue_t * *bind_queue*, tkey_t *k*)

5.4.3.5 void * getchar_monitor_and_dispatch (void * *d*)

Monitor the keys and dispatch to the bind functions.

Parameters

d	data

5.4.3.6 void initialize_tk_structures (void)

5.4.3.7 int process_escape (void)

5.4.3.8 void sigint_handler (int *sig*)

5.4.3.9 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

5.4.3.10 void tk_bind_all_printable_key (bind_function *f*, void * *argument_data*)

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

Parameters

f	the function callback
argument_data	argument to pass to the function

5.4.3.11 void tk_bind_key (tkey_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

5.4.3.12 void tk_finish (void)

Finish all internal structures of the libtk.

5.4.3.13 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`.

5.4.3.14 int tk_is_printable (tkey_t *k*)

Returns whether the key `k` is printable.

Parameters

k	key tk code

Returns

1 if the string is printable, 0 otherwise.

5.4.3.15 void tk_wait (void)

Wait until the tk thread exits.

5.4.4 Variable Documentation

5.4.4.1 trie_t bind

5.4.4.2 struct termios escape_term_attr

5.4.4.3 pthread_t getchar_monitor_thread

5.4.4.4 struct termios new_term_attr

5.4.4.5 struct termios old_term_attr

5.4.4.6 int tk_pipe[2]

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