gtkterm

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Chapter 1

GTKTerm: A GTK+ Serial Port Terminal

GTKTerm is a simple, graphical serial port terminal emulator for Linux and possibly other POSIX-compliant operating systems. It can be used to communicate with all kinds of devices with a serial interface, such as embedded computers, microcontrollers, modems, GPS receivers, CNC machines and more.

1.1 Usage

1.1.1 Keyboard Shortcuts

As GTKTerm is often used like a terminal emulator, the shortcut keys are assigned to <ctrl><shift>, rather than just <ctrl>X and not have GTKTerm intercept them.

Key Combination	Effect
<ctrl><shift>L</shift></ctrl>	Clear screen
<ctrl><shift>R</shift></ctrl>	Send file
<ctrl><shift>Q</shift></ctrl>	Quit
<ctrl><shift>S</shift></ctrl>	Configure port
<ctrl><shift>V</shift></ctrl>	Paste
<ctrl><shift>C</shift></ctrl>	Сору
<ctrl><shift>F</shift></ctrl>	Find
<ctrl><shift>K</shift></ctrl>	Clear Scrollback
<ctrl><shift>A</shift></ctrl>	Select All
<ctrl><shift>B</shift></ctrl>	Send Break
<ctrl>B</ctrl>	Send break
F5	Open Port
F6	Close Port
F7	Toggle DTR
F8	Toggle RTS

1.1.2 Command Line Options

See man gtkterm or gtkterm --help for more information on available command line interface options.

1.1.3 Notes on RS485:

The RS485 flow control is a software user-space emulation and therefore may not work for all configurations (won't respond quickly enough). If this is the case for your setup, you will need to either use a dedicated RS232 to RS485 converter, or look for a kernel level driver. This is an inherent limitation to user space programs.

1.1.4 Scriptability with Signals

Some microcontrollers and other embedded devices are flashed using the same serial interface that is also used for outputting debug information. To facilitate rapid development on these platforms, GTKTerm supports the following UNIX signals:

Signal	Action	Usage Example
SIGUSR1	Open Port	killall -USR1 gtkterm
SIGUSR2	Close Port	killall -USR2 gtkterm

You may find it useful to send these signals in your own firmware flashing scripts.

1.2 Installation

GTKTerm has a few dependencies-

- Gtk+4.0 (version 4.6 or higher)
- · vte-gtk4 (version 0.68 or higher)
- intltool (version 0.40.0 or higher)
- · libgudev (version 229 or higher)

Once these dependencies are installed, most people should simply run:

```
meson build
ninja -C build
```

To install GTKTerm system-wide, run:

```
ninja -C build install
gtk-update-icon-cache
```

If you wish to install GTKTerm someplace other than the default directory, e.g. in /usr, use:

```
meson build -Dprefix=/usr
```

Then build and install as usual.

1.3 Uninstallation 3

1.3 Uninstallation

To uninstall GTKTerm, run:

ninja -C build uninstall

If you already deleted the build directory, just compile and install GTKTerm again as explained in the previous section with the same target location prefix (-Dprefix) and perform the uninstall step afterwards.

1.4 License

Original Code by: Julien Schmitt

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Chapter 2

Class Index

2.1 Class List

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

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Chapter 3

File Index

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Chapter 4

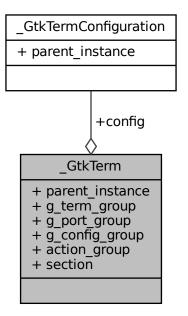
Class Documentation

4.1 _GtkTerm Struct Reference

The main GtkTerm application class.

#include <gtkterm.h>

Collaboration diagram for _GtkTerm:



Public Attributes

- GtkApplication parent_instance
- GOptionGroup * g_term_group
- GOptionGroup * g_port_group
- GOptionGroup * g_config_group
- GActionGroup * action_group
- GtkTermConfiguration * config

App action group.

• char * section

The Key file with the configurations.

4.1.1 Detailed Description

The main GtkTerm application class.

All application specific variables are defined here.

4.1.2 Member Data Documentation

4.1.2.1 action_group

```
GActionGroup* _GtkTerm::action_group
```

4.1.2.2 config

```
GtkTermConfiguration* _GtkTerm::config
```

App action group.

4.1.2.3 g_config_group

```
GOptionGroup* _GtkTerm::g_config_group
```

Referenced by gtkterm_add_cmdline_options().

4.1.2.4 g_port_group

```
GOptionGroup* _GtkTerm::g_port_group
```

Referenced by gtkterm_add_cmdline_options().

4.1.2.5 g_term_group

```
GOptionGroup* _GtkTerm::g_term_group
```

Referenced by gtkterm_add_cmdline_options().

4.1.2.6 parent_instance

```
GtkApplication _GtkTerm::parent_instance
```

4.1.2.7 section

```
char* _GtkTerm::section
```

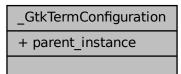
The Key file with the configurations.

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

· gtkterm.h

4.2 _GtkTermConfiguration Struct Reference

Collaboration diagram for _GtkTermConfiguration:



Public Attributes

• GObject parent_instance

4.2.1 Member Data Documentation

4.2.1.1 parent_instance

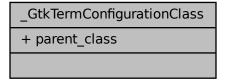
```
GObject _GtkTermConfiguration::parent_instance
```

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

· resource_file.c

4.3 _GtkTermConfigurationClass Struct Reference

Collaboration diagram for _GtkTermConfigurationClass:



Public Attributes

• GObjectClass parent_class

4.3.1 Member Data Documentation

4.3.1.1 parent_class

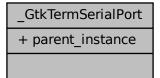
GObjectClass _GtkTermConfigurationClass::parent_class

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

resource_file.c

4.4 GtkTermSerialPort Struct Reference

Collaboration diagram for _GtkTermSerialPort:



Public Attributes

• GObject parent_instance

4.4.1 Member Data Documentation

4.4.1.1 parent_instance

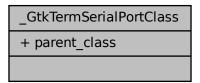
```
GObject _GtkTermSerialPort::parent_instance
```

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

· serial.c

4.5 _GtkTermSerialPortClass Struct Reference

 $Collaboration\ diagram\ for\ _GtkTermSerialPortClass:$



Public Attributes

• GObjectClass parent_class

4.5.1 Member Data Documentation

4.5.1.1 parent_class

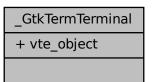
GObjectClass _GtkTermSerialPortClass::parent_class

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

• serial.c

4.6 _GtkTermTerminal Struct Reference

Collaboration diagram for _GtkTermTerminal:



Public Attributes

• VteTerminal vte_object

4.6.1 Member Data Documentation

4.6.1.1 vte_object

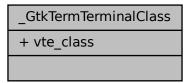
VteTerminal _GtkTermTerminal::vte_object

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

• terminal.c

4.7 GtkTermTerminalClass Struct Reference

 $Collaboration\ diagram\ for\ _GtkTermTerminalClass:$



Public Attributes

VteTerminalClass vte_class

4.7.1 Member Data Documentation

4.7.1.1 vte_class

VteTerminalClass _GtkTermTerminalClass::vte_class

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

• terminal.c

4.8 _GtkTermWindow Struct Reference

The main GtkTermWindow class.

Collaboration diagram for _GtkTermWindow:

_GtkTermWindow

- + parent_instance
- + message
- + infobar
- + statusbox
- + status config
- + menubutton
- + toolmenu
- + scrolled window
- + terminal_window
- + search_bar and 8 more...

Public Attributes

- GtkApplicationWindow parent_instance
- GtkWidget * message
- GtkWidget * infobar

Message for the infobar.

• GtkBox * statusbox

Infobar.

• GtkBox * status config

Box for statusbar messages.

• GtkWidget * menubutton

Displays the actual used configuration.

• GMenuModel * toolmenu

Toolbar.

• GtkScrolledWindow * scrolled_window

Menu.

• GtkTermTerminal * terminal_window

Make the terminal window scrolled.

GtkWidget * search_bar

The terminal window.

• GActionGroup * action_group

Searchbar.

• GtkWidget * status_config_message [3]

Window action group.

- GtkWidget * status_serial_signal [6]
- GtkWidget * status message
- · int width
- · int height
- bool maximized
- · bool fullscreen

4.8.1 Detailed Description

The main GtkTermWindow class.

MainWindow specific variables here.

4.8.2 Member Data Documentation

4.8.2.1 action_group

GActionGroup* _GtkTermWindow::action_group

Searchbar.

4.8.2.2 fullscreen

bool _GtkTermWindow::fullscreen

4.8.2.3 height

int _GtkTermWindow::height

4.8.2.4 infobar

GtkWidget* _GtkTermWindow::infobar

Message for the infobar.

4.8.2.5 maximized

bool _GtkTermWindow::maximized

4.8.2.6 menubutton

GtkWidget* _GtkTermWindow::menubutton

Displays the actual used configuration.

4.8.2.7 message

 ${\tt GtkWidget*} \ _{\tt GtkTermWindow::message}$

4.8.2.8 parent_instance

 ${\tt GtkApplicationWindow} \ _{\tt GtkTermWindow} :: {\tt parent_instance}$

4.8.2.9 scrolled_window

GtkScrolledWindow* _GtkTermWindow::scrolled_window

Menu.

4.8.2.10 search_bar

GtkWidget* _GtkTermWindow::search_bar

The terminal window.

4.8.2.11 status_config

GtkBox* _GtkTermWindow::status_config

Box for statusbar messages.

4.8.2.12 status_config_message

GtkWidget* _GtkTermWindow::status_config_message[3]

Window action group.

4.8.2.13 status_message

 ${\tt GtkWidget*} \ _{\tt GtkTermWindow::status_message}$

4.8.2.14 status_serial_signal

GtkWidget* _GtkTermWindow::status_serial_signal[6]

4.8.2.15 statusbox

GtkBox* _GtkTermWindow::statusbox

Infobar.

4.8.2.16 terminal_window

 ${\tt GtkTermTerminal*} \ _{\tt GtkTermWindow::terminal_window}$

Make the terminal window scrolled.

4.8.2.17 toolmenu

GMenuModel* _GtkTermWindow::toolmenu

Toolbar.

4.8.2.18 width

int _GtkTermWindow::width

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

• gtkterm.c

4.9 GtkTermConfigurationPrivate Struct Reference

Collaboration diagram for GtkTermConfigurationPrivate:

GtkTermConfigurationPrivate
+ key_file
+ config_file

Public Attributes

- GKeyFile * key_file
- GFile * config_file

The memory loaded keyfile.

4.9.1 Member Data Documentation

4.9.1.1 config_file

GFile* GtkTermConfigurationPrivate::config_file

The memory loaded keyfile.

4.9.1.2 key_file

 ${\tt GKeyFile*\ GtkTermConfigurationPrivate::key_file}$

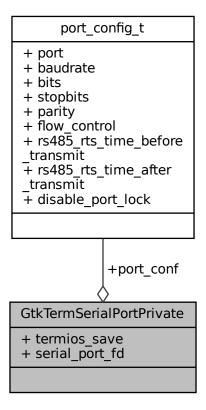
Referenced by check_keyfile(), gtkterm_configuration_default_configuration(), gtkterm_configuration_validate(), and on_set_config_options().

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

· resource_file.c

4.10 GtkTermSerialPortPrivate Struct Reference

Collaboration diagram for GtkTermSerialPortPrivate:



Public Attributes

- port_config_t * port_conf
- struct termios termios_save
- · int serial_port_fd

4.10.1 Member Data Documentation

4.10.1.1 port_conf

port_config_t* GtkTermSerialPortPrivate::port_conf

Referenced by gtkterm_serial_port_get_string().

4.10.1.2 serial_port_fd

int GtkTermSerialPortPrivate::serial_port_fd

Referenced by gtkterm_serial_port_get_string(), and gtkterm_serial_port_status().

4.10.1.3 termios_save

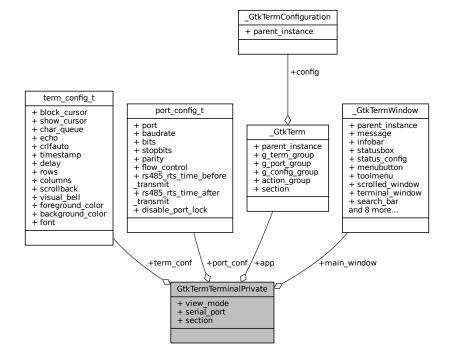
struct termios GtkTermSerialPortPrivate::termios_save

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

· serial.c

4.11 GtkTermTerminalPrivate Struct Reference

Collaboration diagram for GtkTermTerminalPrivate:



Public Attributes

- uint8_t view_mode
- GtkTermSerialPort * serial_port

ASCII or HEX view mode.

- term_config_t * term_conf
- port_config_t * port_conf

The configuration loaded from the keyfile.

• char * section

Port configuration used in this terminal.

GtkTerm * app

Section used in this terminal for configuration from config file.

GtkTermWindow * main_window

Pointer to the app for getting [section] and keyfile.

4.11.1 Member Data Documentation

4.11.1.1 app

```
GtkTerm* GtkTermTerminalPrivate::app
```

Section used in this terminal for configuration from config file.

4.11.1.2 main_window

```
GtkTermWindow* GtkTermTerminalPrivate::main_window
```

Pointer to the app for getting [section] and keyfile.

4.11.1.3 port_conf

```
port_config_t* GtkTermTerminalPrivate::port_conf
```

The configuration loaded from the keyfile.

4.11.1.4 section

```
char* GtkTermTerminalPrivate::section
```

Port configuration used in this terminal.

4.11.1.5 serial_port

GtkTermSerialPort* GtkTermTerminalPrivate::serial_port

ASCII or HEX view mode.

4.11.1.6 term_conf

term_config_t* GtkTermTerminalPrivate::term_conf

4.11.1.7 view_mode

uint8_t GtkTermTerminalPrivate::view_mode

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

· terminal.c

4.12 macro_t Struct Reference

TODO: Migrate to GObject.

#include <macros.h>

Collaboration diagram for macro_t:

macro_t
+ shortcut
+ action
+ closure

Public Attributes

- char * shortcut
- char * action

Shortcut of the macro.

• GClosure * closure

Command to perform.

4.12.1 Detailed Description

TODO: Migrate to GObject.

Define macro structure type

4.12.2 Member Data Documentation

4.12.2.1 action

char* macro_t::action

Shortcut of the macro.

Referenced by convert_macros_to_string(), and convert_string_to_macros().

4.12.2.2 closure

GClosure* macro_t::closure

Command to perform.

4.12.2.3 shortcut

char* macro_t::shortcut

Referenced by convert_macros_to_string(), and convert_string_to_macros().

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

• macros.h

4.13 port_config_t Struct Reference

#include <serial.h>

Collaboration diagram for port_config_t:

port_config_t + port + baudrate + bits + stopbits + parity + flow_control + rs485_rts_time_before _transmit + rs485_rts_time_after _transmit + disable_port_lock

Public Attributes

- char * port
- · long int baudrate
- int bits
- · int stopbits
- int parity
- int flow_control
- int rs485_rts_time_before_transmit
- int rs485 rts time after transmit
- bool disable_port_lock

4.13.1 Member Data Documentation

4.13.1.1 baudrate

long int port_config_t::baudrate

Referenced by gtkterm_serial_port_get_string().

4.13.1.2 bits

```
int port_config_t::bits
```

Referenced by gtkterm_serial_port_get_string().

4.13.1.3 disable_port_lock

bool port_config_t::disable_port_lock

4.13.1.4 flow_control

 $\verb"int port_config_t::flow_control"$

4.13.1.5 parity

int port_config_t::parity

Referenced by gtkterm_serial_port_get_string().

4.13.1.6 port

char* port_config_t::port

Referenced by gtkterm_serial_port_get_string().

4.13.1.7 rs485_rts_time_after_transmit

int port_config_t::rs485_rts_time_after_transmit

4.13.1.8 rs485_rts_time_before_transmit

 $\verb"int port_config_t:: rs485_rts_time_before_transmit"$

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4.13.1.9 stopbits

int port_config_t::stopbits

Referenced by gtkterm_serial_port_get_string().

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

· serial.h

term_config_t Struct Reference

#include <terminal.h>

Collaboration diagram for term_config_t:

term_config_t

- + block_cursor + show_cursor + char_queue

- + echo
- + crlfauto
- + timestamp
- + delay
- + rows
- + columns
- + scrollback
- + visual bell
- + foreground color
- + background color
- + font

Public Attributes

- · bool block cursor
- · bool show_cursor
- · char char_queue
- bool echo
- · bool crlfauto
- bool timestamp
- int delay
- int rows
- · int columns
- · int scrollback
- bool visual_bell
- · GdkRGBA foreground_color
- GdkRGBA background_color
- PangoFontDescription * font

4.14.1 Member Data Documentation

4.14.1.1 background_color

GdkRGBA term_config_t::background_color

4.14.1.2 block_cursor

 $\verb|bool term_config_t::block_cursor|\\$

4.14.1.3 char_queue

char term_config_t::char_queue

4.14.1.4 columns

int term_config_t::columns

4.14.1.5 crlfauto

bool term_config_t::crlfauto

4.14.1.6 delay

int term_config_t::delay

4.14.1.7 echo

 $\verb|bool term_config_t::echo|\\$

30 Class Documentation

4.14.1.8 font

PangoFontDescription* term_config_t::font

4.14.1.9 foreground_color

GdkRGBA term_config_t::foreground_color

4.14.1.10 rows

int term_config_t::rows

4.14.1.11 scrollback

int term_config_t::scrollback

4.14.1.12 show_cursor

bool term_config_t::show_cursor

4.14.1.13 timestamp

bool term_config_t::timestamp

4.14.1.14 visual_bell

bool term_config_t::visual_bell

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

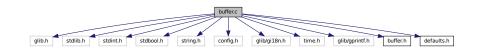
• terminal.h

Chapter 5

File Documentation

- 5.1 README.md File Reference
- 5.2 README.source File Reference
- 5.3 buffer.c File Reference

```
#include <glib.h>
#include <stdlib.h>
#include <stdint.h>
#include <stdbool.h>
#include <string.h>
#include <config.h>
#include <glib/gi18n.h>
#include <flib/gprintf.h>
#include "buffer.h"
#include "defaults.h"
Include dependency graph for buffer.c:
```



Macros

- #define MAX SECTION LENGTH 32
- #define TIMESTAMP_SIZE 50

Functions

- · void create buffer (void)
- void delete_buffer (void)
- unsigned int insert_timestamp (char *buffer)
- void put_chars (const char *chars, unsigned int size, bool crlf_auto)
- void write buffer (void)
- void write_buffer_with_func (void(*func)(const char *, unsigned int))
- void clear_buffer (void)
- void set_clear_func (void(*func)(void))
- void unset_clear_func (void(*func)(void))
- void set display func (void(*func)(const char *, unsigned int))
- void unset_display_func (void(*func)(const char *, unsigned int))

Variables

- · bool timestamp on
- · char overlapped
- unsigned int virt_col_pos
- void(* write_func)(const char *, unsigned int) = NULL
- void(* clear_func)(void) = NULL

5.3.1 Macro Definition Documentation

5.3.1.1 MAX_SECTION_LENGTH

```
#define MAX_SECTION_LENGTH 32
```

5.3.1.2 TIMESTAMP_SIZE

```
#define TIMESTAMP_SIZE 50
```

5.3.2 Function Documentation

5.3.2.1 clear_buffer()

```
void clear_buffer (
     void )
```

References clear_func.

5.3 buffer.c File Reference 33

5.3.2.2 create_buffer()

```
void create_buffer (
     void )
```

5.3.2.3 delete_buffer()

```
void delete_buffer (
     void )
```

5.3.2.4 insert_timestamp()

```
unsigned int insert_timestamp ( {\tt char} \, * \, buffer \, )
```

5.3.2.5 put_chars()

References RECEIVE_BUFFER, timestamp_on, and TIMESTAMP_SIZE.

5.3.2.6 set_clear_func()

References clear_func.

5.3.2.7 set_display_func()

References write_func.

5.3.2.8 unset_clear_func()

References clear_func.

5.3.2.9 unset_display_func()

References write_func.

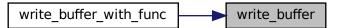
5.3.2.10 write_buffer()

```
void write_buffer (
     void )
```

References overlapped, and write_func.

Referenced by write_buffer_with_func().

Here is the caller graph for this function:



5.3.2.11 write_buffer_with_func()

References write_buffer(), and write_func.

Here is the call graph for this function:



5.3 buffer.c File Reference 35

5.3.3 Variable Documentation

5.3.3.1 clear_func

```
void(* clear_func) (void) (
     void ) = NULL
```

Referenced by clear_buffer(), set_clear_func(), and unset_clear_func().

5.3.3.2 overlapped

char overlapped

Referenced by write_buffer().

5.3.3.3 timestamp_on

```
bool timestamp_on [extern]
```

Referenced by put_chars().

5.3.3.4 virt_col_pos

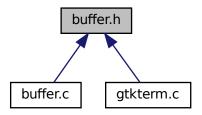
```
unsigned int virt_col_pos [extern]
```

5.3.3.5 write_func

Referenced by set_display_func(), unset_display_func(), write_buffer(), and write_buffer_with_func().

5.4 buffer.h File Reference

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



Macros

• #define BUFFER_SIZE (128 * 1024)

Functions

- void create_buffer (void)
- void delete_buffer (void)
- void put_chars (const char *, unsigned int, bool)
- void clear_buffer (void)
- void write_buffer (void)
- void set_display_func (void(*func)(const char *, uint32_t))
- void unset_display_func (void(*func)(const char *, uint32_t))
- void set_clear_func (void(*func)(void))
- void unset_clear_func (void(*func)(void))
- void write_buffer_with_func (void(*func)(const char *, uint32_t))

5.4.1 Macro Definition Documentation

5.4.1.1 BUFFER_SIZE

#define BUFFER_SIZE (128 * 1024)

5.4.2 Function Documentation

5.4 buffer.h File Reference 37

5.4.2.1 clear_buffer()

```
void clear_buffer (
     void )
```

References clear_func.

5.4.2.2 create_buffer()

```
void create_buffer (
     void )
```

5.4.2.3 delete_buffer()

```
void delete_buffer (
     void )
```

5.4.2.4 put_chars()

References RECEIVE_BUFFER, timestamp_on, and TIMESTAMP_SIZE.

5.4.2.5 set_clear_func()

References clear_func.

5.4.2.6 set_display_func()

5.4.2.7 unset_clear_func()

References clear_func.

5.4.2.8 unset_display_func()

5.4.2.9 write_buffer()

```
void write_buffer (
     void )
```

References overlapped, and write_func.

Referenced by write_buffer_with_func().

Here is the caller graph for this function:



5.4.2.10 write_buffer_with_func()

5.5 buffer.h 39

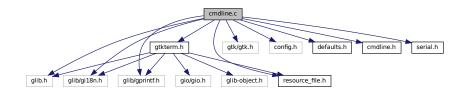
5.5 buffer.h

Go to the documentation of this file.

```
2 /* buffer.h
              GTKTerm Software
                          (c) Julien Schmitt
8 /*
9 /*
      Purpose
10 /*
          Management of a local buffer of data received
11 /*
          - Header file -
13 /*
        - 0.99.7 : removed auto crlf stuff - (use macros instead)
14 /*
15 /*
           - 0.98.4 : file creation by Julien
16 /*
19 #ifndef BUFFER_H_
20 #define BUFFER_H_
2.1
22 #define BUFFER SIZE (128 * 1024)
23
24 void create_buffer(void);
25 void delete_buffer(void);
26 void put_chars(const char *, unsigned int, bool);
27 void clear_buffer(void);
28 void write_buffer(void);
29 void set_display_func(void (*func)(const char *, uint32_t));
30 void unset_display_func(void (*func)(const char *, uint32_t));
31 void set_clear_func(void (*func)(void));
32 void unset_clear_func(void (*func)(void));
33 void write_buffer_with_func(void (*func)(const char *, uint32_t));
35 #endif
```

5.6 cmdline.c File Reference

```
#include <glib.h>
#include <glib/gi18n.h>
#include <gtk/gtk.h>
#include <glib/gprintf.h>
#include <config.h>
#include "defaults.h"
#include "gtkterm.h"
#include "resource_file.h"
#include "cmdline.h"
#include "serial.h"
Include dependency graph for cmdline.c:
```



Functions

void gtkterm_add_cmdline_options (GtkTerm *app)

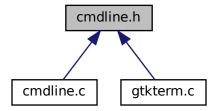
5.6.1 Function Documentation

5.6.1.1 gtkterm_add_cmdline_options()

References BUFFER_LENGTH, _GtkTerm::g_config_group, _GtkTerm::g_port_group, and _GtkTerm::g_term_group.

5.7 cmdline.h File Reference

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



Functions

void gtkterm_add_cmdline_options (GtkTerm *app)

Variables

• GOptionGroup * g_term_group

5.7.1 Function Documentation

5.7.1.1 gtkterm_add_cmdline_options()

 $References \ BUFFER_LENGTH, _GtkTerm::g_config_group, _GtkTerm::g_port_group, \ and _GtkTerm::g_term_group.$

5.8 cmdline.h

5.7.2 Variable Documentation

5.7.2.1 g_term_group

```
GOptionGroup* g_term_group [extern]
```

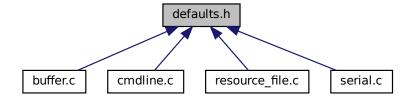
5.8 cmdline.h

Go to the documentation of this file.

```
4 /*
            GTKTerm Software
5 /*
                      (c) Julien Schmitt
6 /*
8 /*
     Purpose
      Reads the command line
- Header file -
10 /*
11 /*
11 /*
12 /*
13 /* ChangeLog
14 /* - 2.0 : migrated to GTK4
15 /* - 0.98 : file creation by Julien
*g_term_group;
18
19 #ifndef CMDLINE_H
20 #define CMDLINE_H
22 void gtkterm_add_cmdline_options (GtkTerm *app);
24 #endif // CMDLINE_H
```

5.9 defaults.h File Reference

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



Macros

- #define DEFAULT_FONT "Monospace 12"
 - Default for VTE-terminal.
- #define DEFAULT_SCROLLBACK 10000
- #define DEFAULT DELAY 0
- #define DEFAULT_CHAR -1
- #define DEFAULT_DELAY_RS485 30
- #define DEFAULT ECHO "false"
- #define DEFAULT_VISUAL_BELL "false"
- #define DEFAULT_PORT "/dev/ttyS0"

Default for serial ports.

- #define DEFAULT BAUDRATE 115200
- #define DEFAULT_PARITY "none"
- #define DEFAULT_BITS 8
- #define DEFAULT STOPBITS 1
- #define DEFAULT_FLOW "none"
- #define RECEIVE_BUFFER 8192
- #define TRANSMIT BUFFER 4096
- #define LINE_FEED 0x0A
- #define POLL DELAY 100
- #define BUFFER_LENGTH 256

Generic defaults.

• #define MAX_SECTION_LENGTH 32

5.9.1 Macro Definition Documentation

5.9.1.1 BUFFER_LENGTH

#define BUFFER_LENGTH 256

Generic defaults.

5.9.1.2 DEFAULT_BAUDRATE

#define DEFAULT_BAUDRATE 115200

5.9.1.3 DEFAULT_BITS

#define DEFAULT_BITS 8

5.9.1.4 DEFAULT_CHAR

#define DEFAULT_CHAR -1

5.9.1.5 DEFAULT_DELAY

#define DEFAULT_DELAY 0

5.9.1.6 DEFAULT_DELAY_RS485

#define DEFAULT_DELAY_RS485 30

5.9.1.7 DEFAULT_ECHO

#define DEFAULT_ECHO "false"

5.9.1.8 DEFAULT_FLOW

#define DEFAULT_FLOW "none"

5.9.1.9 **DEFAULT_FONT**

#define DEFAULT_FONT "Monospace 12"

Default for VTE-terminal.

5.9.1.10 DEFAULT_PARITY

#define DEFAULT_PARITY "none"

5.9.1.11 DEFAULT_PORT

#define DEFAULT_PORT "/dev/ttyS0"

Default for serial ports.

5.9.1.12 DEFAULT_SCROLLBACK

#define DEFAULT_SCROLLBACK 10000

5.9.1.13 DEFAULT_STOPBITS

#define DEFAULT_STOPBITS 1

5.9.1.14 DEFAULT_VISUAL_BELL

#define DEFAULT_VISUAL_BELL "false"

5.9.1.15 LINE_FEED

#define LINE_FEED 0x0A

5.9.1.16 MAX_SECTION_LENGTH

#define MAX_SECTION_LENGTH 32

5.9.1.17 POLL_DELAY

#define POLL_DELAY 100

5.10 defaults.h 45

5.9.1.18 RECEIVE_BUFFER

```
#define RECEIVE_BUFFER 8192
```

5.9.1.19 TRANSMIT_BUFFER

```
#define TRANSMIT_BUFFER 4096
```

5.10 defaults.h

Go to the documentation of this file.

```
1 //! Default for VTE-terminal
2 #define DEFAULT_FONT
                                    "Monospace 12"
3 #define DEFAULT_SCROLLBACK
4 #define DEFAULT_DELAY
5 #define DEFAULT_CHAR
6 #define DEFAULT_DELAY_RS485
7 #define DEFAULT_ECHO
                                   "false"
                                   "false"
8 #define DEFAULT_VISUAL_BELL
10 //! Default for serial ports
11 #define DEFAULT_PORT
                                    "/dev/ttyS0"
12 #define DEFAULT_BAUDRATE
13 #define DEFAULT_PARITY
                                    "none"
14 #define DEFAULT_BITS
15 #define DEFAULT_STOPBITS
16 #define DEFAULT_FLOW
                                     "none"
18 #define RECEIVE_BUFFER
                                    8192
19 #define TRANSMIT_BUFFER
                                    4096
20 #define LINE_FEED
                                    0x0A
21 #define POLL_DELAY
                                    100
                                                       //! in ms (for control signals)
2.2
23 //! Generic defaults
24 #define BUFFER_LENGTH
25 #define MAX_SECTION_LENGTH
```

5.11 files.c File Reference

```
#include <gtk/gtk.h>
#include <stdio.h>
#include <unistd.h>
#include <fcntl.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <errno.h>
#include <string.h>
#include <glib.h>
#include <config.h>
#include <glib/gi18n.h>
Include dependency graph for files.c:
```



Variables

• char * default_filename = NULL

5.11.1 Variable Documentation

5.11.1.1 default_filename

```
char* default_filename = NULL
```

5.12 files.h File Reference

Functions

- void send_raw_file (GAction *action, gpointer data)
- void save_raw_file (GAction *action, gpointer data)
- void add_input (void)

Variables

- gboolean waiting_for_char
- char * default_filename

5.12.1 Function Documentation

5.12.1.1 add_input()

```
void add_input (
     void )
```

5.12.1.2 save_raw_file()

5.13 files.h 47

5.12.1.3 send_raw_file()

5.12.2 Variable Documentation

5.12.2.1 default filename

```
char* default_filename [extern]
```

5.12.2.2 waiting_for_char

```
gboolean waiting_for_char [extern]
```

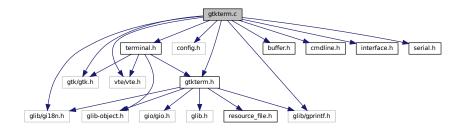
5.13 files.h

Go to the documentation of this file.

5.14 gtkterm.c File Reference

```
#include <gtk/gtk.h>
#include <vte/vte.h>
#include <glib/gil8n.h>
#include <glib/gprintf.h>
#include "config.h"
#include "gtkterm.h"
#include "terminal.h"
#include "buffer.h"
#include "cmdline.h"
#include "interface.h"
#include "serial.h"
```

Include dependency graph for gtkterm.c:



Classes

• struct _GtkTermWindow

The main GtkTermWindow class.

Functions

- void set_window_title (GtkTermWindow *, gpointer)
- int main (int argc, char *argv[])

Variables

• unsigned int gtkterm_signals [LAST_GTKTERM_SIGNAL]

5.14.1 Function Documentation

5.14.1.1 main()

```
int main (
                int argc,
                 char * argv[] )
```

References GTKTERM_TYPE_APP.

5.14.1.2 set_window_title()

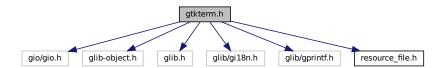
5.14.2 Variable Documentation

5.14.2.1 gtkterm signals

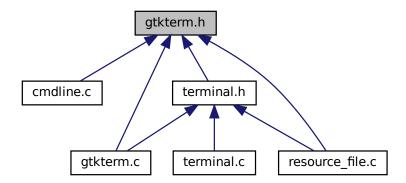
unsigned int gtkterm_signals[LAST_GTKTERM_SIGNAL]

5.15 gtkterm.h File Reference

```
#include <gio/gio.h>
#include <glib-object.h>
#include <glib.h>
#include <glib/gi18n.h>
#include <glib/gprintf.h>
#include "resource_file.h"
Include dependency graph for gtkterm.h:
```



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



Classes

• struct _GtkTerm

The main GtkTerm application class.

Macros

- #define GTKTERM_TYPE_APP gtkterm_get_type()
- #define GTKTERM TYPE GTKTERM WINDOW gtkterm window get type()

Typedefs

- typedef struct _GtkTerm GtkTerm
- typedef struct _GtkTermWindow GtkTermWindow

Enumerations

enum {
 SIGNAL_GTKTERM_LOAD_CONFIG, SIGNAL_GTKTERM_SAVE_CONFIG, SIGNAL_GTKTERM_REMOVE_SECTION
 , SIGNAL_GTKTERM_PRINT_SECTION,
 SIGNAL_GTKTERM_CONFIG_TERMINAL, SIGNAL_GTKTERM_CONFIG_SERIAL, SIGNAL_GTKTERM_TERMINAL_CHA
 , LAST_GTKTERM_SIGNAL }

Variables

• unsigned int gtkterm_signals []

5.15.1 Macro Definition Documentation

5.15.1.1 GTKTERM_TYPE_APP

```
#define GTKTERM_TYPE_APP gtkterm_get_type()
```

5.15.1.2 GTKTERM_TYPE_GTKTERM_WINDOW

```
#define GTKTERM_TYPE_GTKTERM_WINDOW gtkterm_window_get_type()
```

5.15.2 Typedef Documentation

5.16 gtkterm.h 51

5.15.2.1 GtkTerm

```
\verb|typedef| | \verb|struct| | \_ GtkTerm| | GtkTerm| |
```

5.15.2.2 GtkTermWindow

```
typedef struct _GtkTermWindow GtkTermWindow
```

5.15.3 Enumeration Type Documentation

5.15.3.1 anonymous enum

anonymous enum

Enumerator

SIGNAL_GTKTERM_LOAD_CONFIG	
SIGNAL_GTKTERM_SAVE_CONFIG	
SIGNAL_GTKTERM_REMOVE_SECTION	
SIGNAL_GTKTERM_PRINT_SECTION	
SIGNAL_GTKTERM_CONFIG_TERMINAL	
SIGNAL_GTKTERM_CONFIG_SERIAL	
SIGNAL_GTKTERM_TERMINAL_CHANGED	
LAST_GTKTERM_SIGNAL	

5.15.4 Variable Documentation

5.15.4.1 gtkterm_signals

```
unsigned int gtkterm_signals[] [extern]
```

5.16 gtkterm.h

Go to the documentation of this file.

```
1 2 #ifndef GTKTERM_H 3 #define GTKTERM_H
```

```
5 #include <gio/gio.h>
6 #include <glib-object.h>
7 #include <glib.h>
8 #include <glib/gi18n.h>
9 #include <glib/gprintf.h>
10
11 #include "resource_file.h"
12
13 enum {
       SIGNAL_GTKTERM_LOAD_CONFIG,
SIGNAL_GTKTERM_SAVE_CONFIG,
14
15
       SIGNAL_GTKTERM_REMOVE_SECTION,
16
       SIGNAL_GTKTERM_PRINT_SECTION,
18
       SIGNAL_GTKTERM_CONFIG_TERMINAL,
19
       SIGNAL_GTKTERM_CONFIG_SERIAL,
20
       SIGNAL_GTKTERM_TERMINAL_CHANGED,
21
       LAST_GTKTERM_SIGNAL
22 };
24 extern unsigned int gtkterm_signals[];
26 G_BEGIN_DECLS
2.7
28 //! @brief The main GtkTerm application class.
29 //! All application specific variables are defined here.
30 struct _GtkTerm {
31
32
     GtkApplication parent_instance;
33
34
     GOptionGroup *g_term_group;
35
     GOptionGroup *q_port_group;
36
    GOptionGroup *g_config_group;
37
38
    GActionGroup *action_group;
                                                 //! App action group
39
                                                //! The Key file with the configurations //! The section provided from the cli.
    GtkTermConfiguration *config;
40
     char *section;
41
42 //! Terminals have their own section pointer
43 };
44
45 #define GTKTERM_TYPE_APP gtkterm_get_type()
46 typedef struct _GtkTerm GtkTerm;
47 G_DECLARE_FINAL_TYPE (GtkTerm, gtkterm, GTKTERM, APP, GtkApplication)
49 #define GTKTERM_TYPE_GTKTERM_WINDOW gtkterm_window_get_type()
50 typedef struct _GtkTermWindow GtkTermWindow;
51 G_DECLARE_FINAL_TYPE (GtkTermWindow, gtkterm_window, GTKTERM, WINDOW, GtkApplicationWindow)
52
53 G END DECLS
54
55 #endif // GTKTERM_H
```

5.17 interface.c File Reference

```
#include <gtk/gtk.h>
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include <vte/vte.h>
#include <config.h>
#include <glib/gi18n.h>
#include "interface.h"
Include dependency graph for interface.c:
```



Functions

void show_message (char *message, int type_msg)

Variables

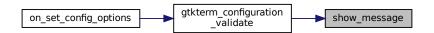
- bool timestamp_on = 0
- · struct configuration_port config
- int virt_col_pos = 0

5.17.1 Function Documentation

5.17.1.1 show_message()

Referenced by gtkterm_configuration_validate().

Here is the caller graph for this function:



5.17.2 Variable Documentation

5.17.2.1 config

```
struct configuration_port config [extern]
```

Referenced by on_set_config_options().

5.17.2.2 timestamp_on

```
bool timestamp_on = 0
```

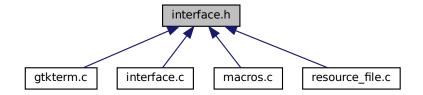
Referenced by put_chars().

5.17.2.3 virt_col_pos

```
int virt_col_pos = 0
```

5.18 interface.h File Reference

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



Macros

- #define MSG_WRN 0
- #define MSG ERR 1
- #define ASCII_VIEW 0
- #define HEXADECIMAL_VIEW 1

Functions

• void show_message (char *, int)

Variables

- GtkWidget * Text
- GtkWidget * display

5.18.1 Macro Definition Documentation

5.18.1.1 ASCII_VIEW

```
#define ASCII_VIEW 0
```

5.18.1.2 HEXADECIMAL_VIEW

```
#define HEXADECIMAL_VIEW 1
```

5.18.1.3 MSG_ERR

```
#define MSG_ERR 1
```

5.18.1.4 MSG_WRN

```
#define MSG_WRN 0
```

5.18.2 Function Documentation

5.18.2.1 show_message()

Referenced by gtkterm_configuration_validate().

Here is the caller graph for this function:



5.18.3 Variable Documentation

5.18.3.1 display

```
GtkWidget* display [extern]
```

5.18.3.2 Text

```
GtkWidget* Text [extern]
```

5.19 interface.h

Go to the documentation of this file.

```
2 /* interface.h
              GTKTerm Software
                       (c) Julien Schmitt
8 /*
         Functions for the management of the GUI for the main window
10 /*
          - Header file -
13 /*******************************
15 #ifndef WIDGETS_H_
16 #define WIDGETS_H_
18 #define MSG_WRN
19 #define MSG_ERR
21 #define ASCII_VIEW 0
22 #define HEXADECIMAL_VIEW 1
24 extern GtkWidget *Text;
25 extern GtkWidget *display;
                                     // Serial terminal (vte)
27 void show_message(char *, int);
2.8
29 #endif
```

5.20 macros.c File Reference

```
#include <gtk/gtk.h>
#include <gdk/gdk.h>
#include <gdk/gdkkeysyms.h>
#include <stdlib.h>
#include <stdio.h>
#include <stdio.h>
#include "interface.h"
#include "macros.h"
#include <config.h>
#include <glib/gi18n.h>
Include dependency graph for macros.c:
```



Enumerations

 enum { COLUMN_SHORTCUT, COLUMN_ACTION, NUM_COLUMNS }
 TODO: Migrate to GObject.

Functions

- int macro_count ()
- void convert_string_to_macros (char **string_list, int size)

Convert the array of strings to macros.

int convert_macros_to_string (char **string_list)

Convert the in memory macros to an array of strings for storage in file.

- macro_t * get_shortcuts (int *size)
- void remove_shortcuts (void)

Variables

- macro_t * macros = NULL
- int nr_of_macros = 0

5.20.1 Enumeration Type Documentation

5.20.1.1 anonymous enum

 $\hbox{anonymous enum}$

TODO: Migrate to GObject.

Enumerator

COLUMN_SHORTCUT	
COLUMN_ACTION	
NUM COLUMNS	

5.20.2 Function Documentation

5.20.2.1 convert_macros_to_string()

Convert the in memory macros to an array of strings for storage in file.

Must be NULL terminated

Number of strings is 2x the macros (shortcut and action)

References macro_t::action, macros, nr_of_macros, and macro_t::shortcut.

5.20.2.2 convert_string_to_macros()

Convert the array of strings to macros.

References macro_t::action, macros, nr_of_macros, remove_shortcuts(), and macro_t::shortcut.

Here is the call graph for this function:

```
convert_string_to_macros remove_shortcuts
```

5.20.2.3 get_shortcuts()

References macros.

5.20.2.4 macro_count()

```
int macro_count ( )
```

References nr_of_macros.

5.20.2.5 remove_shortcuts()

```
void remove_shortcuts ( \mbox{void} \mbox{ } \mbox{)}
```

Clean up all macros

References macros.

Referenced by convert_string_to_macros().

Here is the caller graph for this function:



5.20.3 Variable Documentation

5.20.3.1 macros

```
macro_t* macros = NULL
```

 $Referenced \ by \ convert_macros_to_string(), \ convert_string_to_macros(), \ get_shortcuts(), \ and \ remove_shortcuts().$

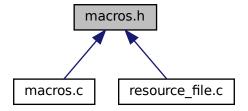
5.20.3.2 nr_of_macros

```
int nr_of_macros = 0
```

Referenced by convert_macros_to_string(), convert_string_to_macros(), and macro_count().

5.21 macros.h File Reference

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



Classes

• struct macro_t

TODO: Migrate to GObject.

Functions

- void remove_shortcuts (void)
- · void add shortcuts (void)

Remove shortcuts from accel_group and free memory.

- macro_t * get_shortcuts (gint *)
- void convert_string_to_macros (char **, int)

Convert the array of strings to macros.

int convert_macros_to_string (char **)

Convert the in memory macros to an array of strings for storage in file.

• int macro_count ()

Variables

• macro_t * macros

5.21.1 Function Documentation

5.21.1.1 add_shortcuts()

```
void add_shortcuts (
     void )
```

Remove shortcuts from accel_group and free memory.

5.21.1.2 convert_macros_to_string()

Convert the in memory macros to an array of strings for storage in file.

Must be NULL terminated

Number of strings is 2x the macros (shortcut and action)

References macro_t::action, macros, nr_of_macros, and macro_t::shortcut.

5.21.1.3 convert_string_to_macros()

Convert the array of strings to macros.

References macro_t::action, macros, nr_of_macros, remove_shortcuts(), and macro_t::shortcut.

Here is the call graph for this function:



5.21.1.4 get_shortcuts()

5.21.1.5 macro_count()

```
int macro_count ( )
```

References nr_of_macros.

5.21.1.6 remove_shortcuts()

Clean up all macros

References macros.

Referenced by convert_string_to_macros().

Here is the caller graph for this function:



5.21.2 Variable Documentation

5.21.2.1 macros

```
macro_t* macros [extern]
```

Referenced by convert macros to string(), convert string to macros(), get shortcuts(), and remove shortcuts().

5.22 macros.h

Go to the documentation of this file.

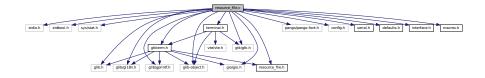
```
2 * macros.h
           GTKTerm Software
                       (c) Julien Schmitt
 * \brief Purpose
10 \star Functions for the management of the macros
           - Header file -
12 *
14
15 #ifndef MACROS_H_
16 #define MACROS_H_
18 //! TODO: Migrate to GObject
19
20 //! Define macro structure type
21 typedef struct
      //! Shortcut of the macro
      GClosure *closure; //!
25
26 }
27 macro_t;
29 //void config_macros(GtkAction *action, gpointer data);
30 void remove_shortcuts(void);
                                           //! Remove shortcuts from accel_group and free memory
31 void add_shortcuts(void);
32 macro_t *get_shortcuts(gint *);
33
34 void convert_string_to_macros (char **, int);
35 int convert_macros_to_string (char **);
37 int macro_count ();
39 extern macro_t *macros;
40
41 #endif
```

5.23 resource_file.c File Reference

```
#include <stdio.h>
#include <stdbool.h>
#include <sys/stat.h>
#include <glib.h>
#include <glib/gi18n.h>
#include <glib/gprintf.h>
#include <glib-object.h>
```

```
#include <gtk/gtk.h>
#include <gio/gio.h>
#include <pango/pango-font.h>
#include <config.h>
#include "gtkterm.h"
#include "serial.h"
#include "terminal.h"
#include "defaults.h"
#include "resource_file.h"
#include "interface.h"
#include "macros.h"
```

Include dependency graph for resource_file.c:



Classes

- struct GtkTermConfigurationPrivate
- struct GtkTermConfiguration
- struct _GtkTermConfigurationClass

Macros

- #define CONFIGURATION_FILENAME ".gtktermrc"
 Default configuration filename.
- #define BUFFER_LENGTH 256

Functions

- void gtkterm_configuration_default_configuration (GtkTermConfigurationPrivate *priv, char *section)

 Create a new < default> configuration.
- void gtkterm_configuration_validate (GtkTermConfigurationPrivate *priv, char *section)
 validate the configuration, given by the section
- int check_keyfile (GtkTermConfiguration *self, char *section)
- bool on_set_config_options (const char *name, const char *value, gpointer data, GError **error)

 Set the config option in the keyfile.

Variables

const char GtkTermConfigurationItems [][CONF_ITEM_LENGTH]
 Used configuration options to hold consistency between load/save functions.

5.23.1 Macro Definition Documentation

5.23.1.1 BUFFER_LENGTH

```
#define BUFFER_LENGTH 256
```

5.23.1.2 CONFIGURATION_FILENAME

```
#define CONFIGURATION_FILENAME ".gtktermrc"
```

Default configuration filename.

5.23.2 Function Documentation

5.23.2.1 check keyfile()

Load keyfile if it is nog loaded yet

Check if the <section> exists in the key file.

References GtkTermConfigurationPrivate::key file.

5.23.2.2 gtkterm_configuration_default_configuration()

Create a new <default> configuration.

References CONF_ITEM_SERIAL_BAUDRATE, CONF_ITEM_SERIAL_BITS, CONF_ITEM_SERIAL_DISABLE_PORT_LOCK, CONF_ITEM_SERIAL_FLOW_CONTROL, CONF_ITEM_SERIAL_PARITY, CONF_ITEM_SERIAL_PORT, CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX, CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX, CONF_ITEM_SERIAL_STOPBITS, CONF_ITEM_TERM_BACKGROUND_ALPHA, CONF_ITEM_TERM_BACKGROUND_BLUE, CONF_ITEM_TERM_BACKGROUND_GREEN, CONF_ITEM_TERM_BACKGROUND_RED, CONF_ITEM_TERM_BACKGROUND_RED, CONF_ITEM_TERM_FONT, CONF_ITEM_TERM_FOREGROUND_ALPHA, CONF_ITEM_TERM_FOREGROUND_BLUE, CONF_ITEM_TERM_FOREGROUND_CONF_ITEM_TERM_FOREGROUND_RED, CONF_ITEM_TERM_MACROS, CONF_ITEM_TERM_ROWS, CONF_ITEM_TERM_SCROLLBACK, CONF_ITEM_TERM_SHOW_CURSOR, CONF_ITEM_TERM_VISUAL_BELL, CONF_ITEM_TERM_WAIT_CHAR, CONF_ITEM_TERM_WAIT_DELAY, DEFAULT_BAUDRATE, DEFAULT_BITS, DEFAULT_CHAR, DEFAULT_DELAY, DEFAULT_SCROLLBACK, DEFAULT_SCHOOLLBACK, DEFAULT_STOPBITS, DEFAULT_VISUAL_BELL, GIKTEM_CONF_IDERAULT_SCROLLBACK, DEFAULT_SCROLLBACK, DEFAULT_STOPBITS, DEFAULT_VISUAL_BELL, GIKTEM_CONF_IDERAULT_SCROLLBACK, DEFAULT_SCROLLBACK, DEFAULT_S

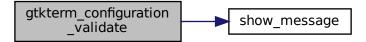
5.23.2.3 gtkterm_configuration_validate()

validate the configuration, given by the section

References CONF_ITEM_SERIAL_BAUDRATE, CONF_ITEM_SERIAL_BITS, CONF_ITEM_SERIAL_STOPBITS, CONF_ITEM_TERM_FONT, CONF_ITEM_TERM_WAIT_DELAY, DEFAULT_BITS, DEFAULT_DELAY, DEFAULT_FONT, DEFAULT_STOPBITS, GtkTermConfigurationItems, GtkTermConfigurationPrivate::key_file, MSG_ERR, and show_message().

Referenced by on_set_config_options().

Here is the call graph for this function:



Here is the caller graph for this function:

```
on_set_config_options gtkterm_configuration __validate
```

5.23.2.4 on_set_config_options()

Set the config option in the keyfile.

Options are not saved. Point to the third charater ('-' in front of the cli option)

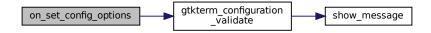
Search index for the option we want to set

Check for max path length. Exit if it is to long. Note: Serial port is also a path to a device.

We should not get here.

References CONF_ITEM_LAST, CONF_ITEM_SERIAL_BAUDRATE, CONF_ITEM_SERIAL_BITS, CONF_ITEM_SERIAL_DISABLE CONF_ITEM_SERIAL_FLOW_CONTROL, CONF_ITEM_SERIAL_PARITY, CONF_ITEM_SERIAL_PORT, CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX, CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX, CONF_ITEM_SERIAL_STOPBITS, CONF_ITEM_TERM_ECHO, CONF_ITEM_TERM_RAW_FILENAME, CONF_ITEM_TERM_WAIT_CHAR, CONF_ITEM_TERM_WAIT_DELAY, config, gtkterm_configuration_validate(), GtkTermConfigurationItems, and GtkTermConfigurationPrivate::key_file.

Here is the call graph for this function:



5.23.3 Variable Documentation

5.23.3.1 GtkTermConfigurationItems

const char GtkTermConfigurationItems[][CONF_ITEM_LENGTH]

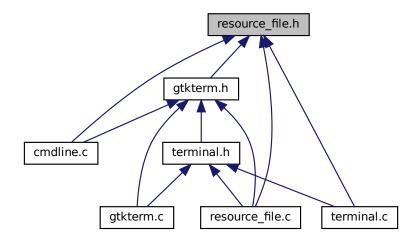
Used configuration options to hold consistency between load/save functions.

Configuration item names.

Referenced by gtkterm_configuration_default_configuration(), gtkterm_configuration_validate(), and on_set_config_options().

5.24 resource file.h File Reference

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



Macros

- #define CONF ITEM LENGTH 32
- #define DEFAULT_SECTION "default"
- #define GTKTERM_TYPE_CONFIGURATION gtkterm_configuration_get_type ()

Typedefs

• typedef struct _GtkTermConfiguration GtkTermConfiguration

Enumerations

```
    enum {
        CONF_ITEM_SERIAL_PORT , CONF_ITEM_SERIAL_BAUDRATE , CONF_ITEM_SERIAL_BITS ,
        CONF_ITEM_SERIAL_STOPBITS ,
        CONF_ITEM_SERIAL_PARITY , CONF_ITEM_SERIAL_FLOW_CONTROL , CONF_ITEM_TERM_WAIT_DELAY ,
        CONF_ITEM_TERM_WAIT_CHAR ,
        CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX , CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX ,
        CONF_ITEM_TERM_MACROS , CONF_ITEM_TERM_RAW_FILENAME ,
        CONF_ITEM_TERM_ECHO , CONF_ITEM_TERM_CRLF_AUTO , CONF_ITEM_SERIAL_DISABLE_PORT_LOCK ,
        CONF_ITEM_TERM_FONT ,
        CONF_ITEM_TERM_FONT ,
        CONF_ITEM_TERM_TIMESTAMP , CONF_ITEM_TERM_BLOCK_CURSOR , CONF_ITEM_TERM_SHOW_CURSOR ,
        CONF_ITEM_TERM_ROWS ,
        CONF_ITEM_TERM_ROWS ,
        CONF_ITEM_TERM_COLS , CONF_ITEM_TERM_SCROLLBACK , CONF_ITEM_TERM_VISUAL_BELL ,
        CONF_ITEM_TERM_FOREGROUND_RED ,
        CONF_ITEM_TERM_FOREGROUND_GREEN , CONF_ITEM_TERM_FOREGROUND_BLUE , CONF_ITEM_TERM_FOREGROUND_GREEN , CONF_ITEM_TERM_FOREGROUND_BLUE , CONF_ITEM_TERM_FOREGROUND_GREEN , CONF_ITEM_TERM_FOREGROUND_BLUE , CONF_ITEM_TERM_FOREGROUND_GREEN , CONF_ITEM_TERM_FOREGROUND_BLUE , CONF_ITEM_FOREGROUND_BLUE , CONF_ITEM_FOREGROUND_BLUE , CONF_ITEM_FOREGROUND_BLUE ,
```

CONF ITEM TERM BACKGROUND GREEN, CONF ITEM TERM BACKGROUND BLUE, CONF ITEM TERM BACKG

, CONF_ITEM_LAST }

Define all configuration items which are used in the resource file.

, CONF_ITEM_TERM_BACKGROUND RED ,

Functions

- GtkTermConfiguration * gtkterm_configuration_new (void)
- bool on_set_config_options (const char *, const char *, gpointer, GError **)

 Set the config option in the keyfile.

Variables

const char GtkTermConfigurationItems [][CONF_ITEM_LENGTH]
 Configuration item names.

5.24.1 Macro Definition Documentation

5.24.1.1 CONF_ITEM_LENGTH

#define CONF_ITEM_LENGTH 32

5.24.1.2 DEFAULT_SECTION

#define DEFAULT_SECTION "default"

5.24.1.3 GTKTERM_TYPE_CONFIGURATION

#define GTKTERM_TYPE_CONFIGURATION gtkterm_configuration_get_type ()

5.24.2 Typedef Documentation

5.24.2.1 GtkTermConfiguration

 ${\tt typedef \ struct \ _GtkTermConfiguration \ GtkTermConfiguration}$

5.24.3 Enumeration Type Documentation

5.24.3.1 anonymous enum

anonymous enum

Define all configuration items which are used in the resource file.

it is an index to ConfigurationItem.

Enumerator

CONF_ITEM_SERIAL_PORT	
CONF_ITEM_SERIAL_BAUDRATE	
CONF_ITEM_SERIAL_BITS	
CONF_ITEM_SERIAL_STOPBITS	
CONF_ITEM_SERIAL_PARITY	
CONF_ITEM_SERIAL_FLOW_CONTROL	
CONF_ITEM_TERM_WAIT_DELAY	
CONF_ITEM_TERM_WAIT_CHAR	
CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX	
CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX	
CONF_ITEM_TERM_MACROS	
CONF_ITEM_TERM_RAW_FILENAME	
CONF_ITEM_TERM_ECHO	
CONF_ITEM_TERM_CRLF_AUTO	
CONF_ITEM_SERIAL_DISABLE_PORT_LOCK	
CONF_ITEM_TERM_FONT	
CONF_ITEM_TERM_TIMESTAMP	
CONF_ITEM_TERM_BLOCK_CURSOR	
CONF_ITEM_TERM_SHOW_CURSOR	
CONF_ITEM_TERM_ROWS	
CONF_ITEM_TERM_COLS	
CONF_ITEM_TERM_SCROLLBACK	
CONF_ITEM_TERM_VISUAL_BELL	
CONF_ITEM_TERM_FOREGROUND_RED	
CONF_ITEM_TERM_FOREGROUND_GREEN	
CONF_ITEM_TERM_FOREGROUND_BLUE	
CONF_ITEM_TERM_FOREGROUND_ALPHA	
CONF_ITEM_TERM_BACKGROUND_RED	
CONF_ITEM_TERM_BACKGROUND_GREEN	
CONF_ITEM_TERM_BACKGROUND_BLUE	
CONF_ITEM_TERM_BACKGROUND_ALPHA	
CONF_ITEM_LAST	Checking as last item in the list.
	i .

5.24.4 Function Documentation

5.24.4.1 gtkterm_configuration_new()

```
\begin{tabular}{lll} \tt GtkTermConfiguration * gtkterm\_configuration\_new & \tt void &
```

5.24.4.2 on_set_config_options()

Set the config option in the keyfile.

Options are not saved. Point to the third charater ('-' in front of the cli option)

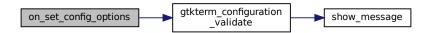
Search index for the option we want to set

Check for max path length. Exit if it is to long. Note: Serial port is also a path to a device.

We should not get here.

References CONF_ITEM_LAST, CONF_ITEM_SERIAL_BAUDRATE, CONF_ITEM_SERIAL_BITS, CONF_ITEM_SERIAL_DISABLE CONF_ITEM_SERIAL_FLOW_CONTROL, CONF_ITEM_SERIAL_PARITY, CONF_ITEM_SERIAL_PORT, CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX, CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX, CONF_ITEM_SERIAL_STOPBITS, CONF_ITEM_TERM_ECHO, CONF_ITEM_TERM_RAW_FILENAME, CONF_ITEM_TERM_WAIT_CHAR, CONF_ITEM_TERM_WAIT_DELAY, config, gtkterm_configuration_validate(), GtkTermConfigurationItems, and GtkTermConfigurationPrivate::key_file.

Here is the call graph for this function:



5.24.5 Variable Documentation

5.24.5.1 GtkTermConfigurationItems

```
const char GtkTermConfigurationItems[][CONF_ITEM_LENGTH] [extern]
```

Configuration item names.

Configuration item names.

Referenced by gtkterm_configuration_default_configuration(), gtkterm_configuration_validate(), and on_set_config_options().

5.25 resource_file.h 71

5.25 resource file.h

Go to the documentation of this file.

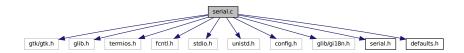
```
* resource_file.h
               GTKTerm Software
                          (c) Julien Schmitt
9 *
      \brief Purpose
       Load and save configuration file
10 *
11 *
          - Header file -
12 *
15 #ifndef RESOURCE_FILE_H_
16 #define RESOURCE_FILE_H_
18 #define CONF_ITEM_LENGTH
                                     32
19 #define DEFAULT_SECTION
                                    "default"
                                                      //! Default section if not specified
21 \ //! Define all configuration items which are used
22 //! in the resource file. it is an index to ConfigurationItem.
23 enum {
24
           CONF_ITEM_SERIAL_PORT,
25
           CONF_ITEM_SERIAL_BAUDRATE,
           CONF_ITEM_SERIAL_BITS,
26
27
           CONF_ITEM_SERIAL_STOPBITS,
28
           CONF_ITEM_SERIAL_PARITY,
           CONF_ITEM_SERIAL_FLOW_CONTROL,
29
           CONF_ITEM_TERM_WAIT_DELAY,
30
           CONF_ITEM_TERM_WAIT_CHAR,
31
           CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX,
32
           CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX,
34
           CONF_ITEM_TERM_MACROS,
           CONF_ITEM_TERM_RAW_FILENAME,
CONF_ITEM_TERM_ECHO,
CONF_ITEM_TERM_CRLF_AUTO,
35
36
37
38
           CONF_ITEM_SERIAL_DISABLE_PORT_LOCK,
           CONF_ITEM_TERM_FONT,
40
           CONF_ITEM_TERM_TIMESTAMP,
41
           CONF_ITEM_TERM_BLOCK_CURSOR,
           CONF_ITEM_TERM_SHOW_CURSOR, CONF_ITEM_TERM_ROWS,
42
43
           CONF_ITEM_TERM_COLS,
44
           CONF_ITEM_TERM_SCROLLBACK,
45
           CONF_ITEM_TERM_VISUAL_BELL,
           CONF_ITEM_TERM_FOREGROUND_RED,
CONF_ITEM_TERM_FOREGROUND_GREEN,
CONF_ITEM_TERM_FOREGROUND_BLUE,
CONF_ITEM_TERM_FOREGROUND_ALPHA,
47
48
49
50
           CONF_ITEM_TERM_BACKGROUND_RED,
           CONF_ITEM_TERM_BACKGROUND_GREEN,
53
           CONF_ITEM_TERM_BACKGROUND_BLUE,
54
           CONF_ITEM_TERM_BACKGROUND_ALPHA,
5.5
           CONF_ITEM_LAST
                                                    //! Checking as last item in the list.
56 };
58 //!Configuration item names.
59 extern const char GtkTermConfigurationItems [][CONF_ITEM_LENGTH];
60
61 G BEGIN DECLS
63 #define GTKTERM_TYPE_CONFIGURATION gtkterm_configuration_get_type ()
64 G_DECLARE_FINAL_TYPE (GtkTermConfiguration, gtkterm_configuration, GTKTERM, CONFIGURATION, GObject)
65 typedef struct _GtkTermConfiguration GtkTermConfiguration;
67 GtkTermConfiguration *gtkterm_configuration_new (void);
68
69 bool on set config options (const char *, const char *, gpointer, GError **);
71 G_END_DECLS
73 #endif
```

5.26 serial.c File Reference

```
#include <gtk/gtk.h>
#include <glib.h>
```

```
#include <termios.h>
#include <fcntl.h>
#include <stdio.h>
#include <unistd.h>
#include <config.h>
#include <qlib/qi18n.h>
#include "serial.h"
#include "defaults.h"
```

Include dependency graph for serial.c:



Classes

- struct GtkTermSerialPortPrivate
- struct GtkTermSerialPort
- struct _GtkTermSerialPortClass

Enumerations

• enum { PROP_0 , PROP_PORT_CONFIG , N_PROPS }

Functions

- GtkTermSerialPort * gtkterm_serial_port_new (port_config_t *port_conf)
- char * gtkterm_serial_port_get_string (GtkTermSerialPort *self)
- int gtkterm_serial_port_status (GtkTermSerialPort *self)

5.26.1 Enumeration Type Documentation

5.26.1.1 anonymous enum

anonymous enum

Enumerator

PROP_0	
PROP_PORT_CONFIG	
N_PROPS	

5.27 serial.h File Reference 73

5.26.2 Function Documentation

5.26.2.1 gtkterm_serial_port_get_string()

References port_config_t::baudrate, port_config_t::bits, port_config_t::parity, port_config_t::port, GtkTermSerialPortPrivate::port_config_t::stopbits.

5.26.2.2 gtkterm_serial_port_new()

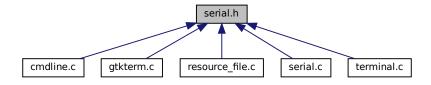
References GTKTERM_TYPE_SERIAL_PORT.

5.26.2.3 gtkterm_serial_port_status()

References GtkTermSerialPortPrivate::serial_port_fd.

5.27 serial.h File Reference

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



Classes

struct port_config_t

Macros

• #define GTKTERM_TYPE_SERIAL_PORT gtkterm_serial_port_get_type ()

Typedefs

• typedef typedefG_BEGIN_DECLS struct _GtkTermSerialPort GtkTermSerialPort

Functions

- GtkTermSerialPort * gtkterm_serial_port_new (port_config_t *)
- G_END_DECLS char * gtkterm_serial_port_get_string (GtkTermSerialPort *)
- int gtkterm_serial_port_status (GtkTermSerialPort *)

5.27.1 Macro Definition Documentation

5.27.1.1 GTKTERM_TYPE_SERIAL_PORT

```
#define GTKTERM_TYPE_SERIAL_PORT gtkterm_serial_port_get_type ()
```

5.27.2 Typedef Documentation

5.27.2.1 GtkTermSerialPort

```
typedef typedefG_BEGIN_DECLS struct _GtkTermSerialPort GtkTermSerialPort
```

5.27.3 Function Documentation

5.27.3.1 gtkterm_serial_port_get_string()

References port_config_t::baudrate, port_config_t::bits, port_config_t::parity, port_config_t::port, GtkTermSerialPortPrivate::port_config_t::btkTermSerialPortPrivate::btk

5.28 serial.h 75

5.27.3.2 gtkterm_serial_port_new()

References GTKTERM_TYPE_SERIAL_PORT.

5.27.3.3 gtkterm_serial_port_status()

References GtkTermSerialPortPrivate::serial port fd.

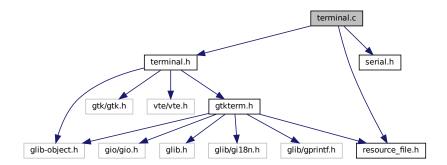
5.28 serial.h

Go to the documentation of this file.

```
2 /* serial.h
4 /* GTKTerm Software
                      (c) Julien Schmitt
6 /*
7 /* -----
8 /*
      Serial port access functions
- Header file -
10 /*
11 /*
14
15 #ifndef SERIAL_H_
16 #define SERIAL_H_
17
18 typedef struct
19 {
2.0
      char *port;
                                // 300 - 600 - 1200 - ... - 2000000
21
     long int baudrate;
    // 5 - 6 - 7 - 8
                                  // 1 - 2
                                // 0 : None, 1 : Odd, 2 : Even
// 0 : None, 1 : Xon/Xoff, 2 : RTS/CTS, 3 : RS485halfduplex
24
2.5
2.6
    bool disable_port_lock;
28
29
30 } port_config_t;
31
32 G_BEGIN_DECLS
33
34 typedef struct _GtkTermSerialPort GtkTermSerialPort;
36 #define GTKTERM_TYPE_SERIAL_PORT gtkterm_serial_port_get_type ()
37 G_DECLARE_FINAL_TYPE (GtkTermSerialPort, gtkterm_serial_port, GTKTERM, SERIAL_PORT, GObject)
38
39 GtkTermSerialPort *gtkterm_serial_port_new (port_config_t *);
40
41 G_END_DECLS
43 char* gtkterm_serial_port_get_string (GtkTermSerialPort *);
44 int gtkterm_serial_port_status (GtkTermSerialPort *);
4.5
46 #endif
```

5.29 terminal.c File Reference

```
#include "terminal.h"
#include "serial.h"
#include "resource_file.h"
Include dependency graph for terminal.c:
```



Classes

- struct GtkTermTerminalPrivate
- struct _GtkTermTerminal
- struct _GtkTermTerminalClass

Enumerations

enum {
 PROP_0, PROP_SECTION, PROP_GTKTERM_APP, PROP_MAIN_WINDOW,
 N_PROPS}

Functions

GtkTermTerminal * gtkterm_terminal_new (char *section, GtkTerm *gtkterm_app, GtkTermWindow *main
 _window)

5.29.1 Enumeration Type Documentation

5.29.1.1 anonymous enum

anonymous enum

Enumerator

PROP_0	
PROP_SECTION	
PROP_GTKTERM_APP	
PROP_MAIN_WINDOW	
N_PROPS	

5.29.2 Function Documentation

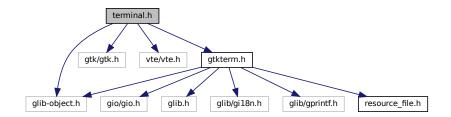
5.29.2.1 gtkterm_terminal_new()

References GTKTERM_TYPE_TERMINAL.

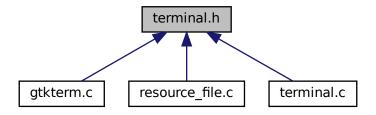
5.30 terminal.h File Reference

```
#include <glib-object.h>
#include <gtk/gtk.h>
#include <vte/vte.h>
#include "gtkterm.h"
```

Include dependency graph for terminal.h:



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



Classes

struct term_config_t

Macros

• #define GTKTERM_TYPE_TERMINAL gtkterm_terminal_get_type()

Functions

• GtkTermTerminal * gtkterm_terminal_new (char *, GtkTerm *, GtkTermWindow *)

5.30.1 Macro Definition Documentation

5.30.1.1 GTKTERM_TYPE_TERMINAL

```
#define GTKTERM_TYPE_TERMINAL gtkterm_terminal_get_type()
```

5.30.2 Function Documentation

5.30.2.1 gtkterm_terminal_new()

References GTKTERM_TYPE_TERMINAL.

5.31 terminal.h

5.31 terminal.h

Go to the documentation of this file.

```
2 /* terminal.h
       GTKTerm Software
               (c) Julien Schmitt
6 /*
7 /* -----
8 /*
9 /* Purpose
      Handles all VTE in/output to/from serial port
- Header file -
10 /*
11 /*
12 /*
14 #ifndef TERMINAL_H
15 #define TERMINAL_H
16
17 #include <glib-object.h>
18 #include <gtk/gtk.h>
19 #include <vte/vte.h>
20
21 #include "gtkterm.h"
23 typedef struct
24 {
25
      bool block_cursor;
26
     bool show_cursor;
                               // character in queue
// echo local
2.7
      char char_queue;
28
     bool echo;
     bool ecno;
bool crlfauto;
                               // line feed auto
29
     bool timestamp;
31
     int delay;
                               // end of char delay: in ms
32
     int rows;
     int columns;
int scrollback;
33
34
35
     bool visual_bell;
36
     GdkRGBA foreground_color;
37
     GdkRGBA background_color;
38
     PangoFontDescription *font;
39
40 } term_config_t;
42 G_BEGIN_DECLS
44 #define GTKTERM_TYPE_TERMINAL gtkterm_terminal_get_type()
45 G_DECLARE_FINAL_TYPE (GtkTermTerminal, gtkterm_terminal, GTKTERM, TERMINAL, VteTerminal)
46
47 GtkTermTerminal *qtkterm_terminal_new (char *, GtkTerm *, GtkTermWindow *);
49 G_END_DECLS
50
51 #endif // TERMINAL_H
```

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