GTKTerm

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1 GTKTerm: The source code are	chitecture	1
1.1 General description		1
1.2 Objects		1
1.2.1 GtkTerm		2
1.2.1.1 Members		2
1.2.1.2 Signals .		2
1.2.1.3 Main func	tions	2
1.2.2 GtkTermWindow		2
1.2.2.1 Members		2
1.2.2.2 Signals .		2
1.2.2.3 Main func	tions	2
1.2.3 GtkTermTerminal .		2
1.2.3.1 Members		2
1.2.3.2 Signals .		2
1.2.3.3 Main fund	tions	2
1.2.4 GtkTermConfiguration	on	2
1.2.4.1 Members		2
1.2.4.2 Signals .		2
1.2.4.3 Main func	tions	2
1.2.5 GtkTermSerialPort .		2
1.2.5.1 Members		2
1.2.5.2 Signals .		2
1.2.5.3 Main func	tions	2
1.3 Links		2
O.T. 10 1101		•
2 Todo List		3
3 Class Index		5
3.1 Class List		5
4 File Index		7
4.1 File List		7
5 Class Documentation		9
		9
	1	
	mentation	
	oup	
	· · · · · · · · · · · · · · · · · · ·	
	group	
	oup	
	roup	
	stance	

5.2 _GtkTermConfiguration Struct Reference	. 11
5.2.1 Member Data Documentation	. 12
5.2.1.1 parent_instance	. 12
5.3 _GtkTermConfigurationClass Struct Reference	. 12
5.3.1 Member Data Documentation	. 12
5.3.1.1 parent_class	. 12
5.4 _GtkTermSerialPort Struct Reference	. 13
5.4.1 Member Data Documentation	. 13
5.4.1.1 parent_instance	. 13
5.5 _GtkTermSerialPortClass Struct Reference	. 13
5.5.1 Member Data Documentation	. 14
5.5.1.1 parent_class	. 14
5.6 _GtkTermTerminal Struct Reference	. 14
5.6.1 Member Data Documentation	. 14
5.6.1.1 vte_object	. 15
5.7 _GtkTermTerminalClass Struct Reference	. 15
5.7.1 Member Data Documentation	. 15
5.7.1.1 vte_class	. 15
5.8 _GtkTermWindow Struct Reference	. 16
5.8.1 Detailed Description	. 17
5.8.2 Member Data Documentation	. 17
5.8.2.1 action_group	. 17
5.8.2.2 fullscreen	. 17
5.8.2.3 height	. 17
5.8.2.4 infobar	. 17
5.8.2.5 maximized	. 18
5.8.2.6 menubutton	. 18
5.8.2.7 message	. 18
5.8.2.8 parent_instance	. 18
5.8.2.9 scrolled_window	. 18
5.8.2.10 search_bar	. 18
5.8.2.11 status_config	. 19
5.8.2.12 status_config_message	. 19
5.8.2.13 status_message	. 19
5.8.2.14 status_serial_signal	. 19
5.8.2.15 statusbox	. 19
5.8.2.16 terminal_window	. 19
5.8.2.17 toolmenu	. 20
5.8.2.18 width	. 20
5.9 GtkTermConfigurationPrivate Struct Reference	. 20
5.9.1 Member Data Documentation	. 20
5.9.1.1 config file	. 21

5.9.1.2 key_file	21
5.10 GtkTermSerialPortPrivate Struct Reference	21
5.10.1 Member Data Documentation	22
5.10.1.1 port_conf	22
5.10.1.2 serial_port_fd	22
5.10.1.3 termios_save	22
5.11 GtkTermTerminalPrivate Struct Reference	23
5.11.1 Member Data Documentation	23
5.11.1.1 app	24
5.11.1.2 macros	24
5.11.1.3 main_window	24
5.11.1.4 port_conf	24
5.11.1.5 section	24
5.11.1.6 serial_port	24
5.11.1.7 term_conf	25
5.11.1.8 view_mode	25
5.12 macro_t Struct Reference	25
5.12.1 Detailed Description	26
5.12.2 Member Data Documentation	26
5.12.2.1 action	26
5.12.2.2 closure	26
5.12.2.3 shortcut	26
5.13 port_config_t Struct Reference	27
5.13.1 Member Data Documentation	27
5.13.1.1 baudrate	27
5.13.1.2 bits	28
5.13.1.3 disable_port_lock	28
5.13.1.4 flow_control	28
5.13.1.5 parity	28
5.13.1.6 port	28
5.13.1.7 rs485_rts_time_after_transmit	28
5.13.1.8 rs485_rts_time_before_transmit	28
5.13.1.9 stopbits	29
5.14 term_config_t Struct Reference	29
5.14.1 Member Data Documentation	30
5.14.1.1 background_color	30
5.14.1.2 block_cursor	30
5.14.1.3 char_queue	30
5.14.1.4 columns	30
5.14.1.5 crlfauto	30
5.14.1.6 delay	30
5.14.1.7 echo	30

	5.14.1.8 font	31
	5.14.1.9 foreground_color	31
	5.14.1.10 rows	31
	5.14.1.11 scrollback	31
	5.14.1.12 show_cursor	31
	5.14.1.13 timestamp	31
	5.14.1.14 visual_bell	31
6 File	e Documentation	33
	.1 README source.md File Reference	33
	.2 buffer.c File Reference	33
	6.2.1 Macro Definition Documentation	34
	6.2.1.1 MAX_SECTION_LENGTH	34
	6.2.1.2 TIMESTAMP_SIZE	34
	6.2.2 Function Documentation	34
	6.2.2.1 clear buffer()	34
	6.2.2.2 create_buffer()	35
	6.2.2.3 delete_buffer()	35
	6.2.2.4 insert_timestamp()	35
	6.2.2.5 put_chars()	35
	6.2.2.6 set_clear_func()	35
	6.2.2.7 set_display_func()	35
	6.2.2.8 unset_clear_func()	36
	6.2.2.9 unset_display_func()	36
	6.2.2.10 write_buffer()	36
	6.2.2.11 write_buffer_with_func()	36
	6.2.3 Variable Documentation	37
	6.2.3.1 clear_func	37
	6.2.3.2 overlapped	37
	6.2.3.3 timestamp_on	37
	6.2.3.4 virt_col_pos	37
	6.2.3.5 write_func	37
6	.3 buffer.h File Reference	38
	6.3.1 Macro Definition Documentation	38
	6.3.1.1 BUFFER_SIZE	38
	6.3.2 Function Documentation	38
	6.3.2.1 clear_buffer()	39
	6.3.2.2 create_buffer()	39
	6.3.2.3 delete_buffer()	39
	6.3.2.4 put_chars()	39
	6.3.2.5 set_clear_func()	39
	6.3.2.6 set_display_func()	39

6.3.2.7 unset_clear_func()
6.3.2.8 unset_display_func()
6.3.2.9 write_buffer()
6.3.2.10 write_buffer_with_func()
6.4 buffer.h
6.5 cmdline.c File Reference
6.5.1 Function Documentation
6.5.1.1 gtkterm_add_cmdline_options()
6.6 cmdline.h File Reference
6.6.1 Function Documentation
6.6.1.1 gtkterm_add_cmdline_options()
6.6.2 Variable Documentation
6.6.2.1 g_term_group
6.7 cmdline.h
6.8 defaults.h File Reference
6.8.1 Macro Definition Documentation
6.8.1.1 BUFFER_LENGTH
6.8.1.2 DEFAULT_BAUDRATE
6.8.1.3 DEFAULT_BITS
6.8.1.4 DEFAULT_CHAR
6.8.1.5 DEFAULT_DELAY
6.8.1.6 DEFAULT_DELAY_RS485
6.8.1.7 DEFAULT_ECHO
6.8.1.8 DEFAULT_FLOW
6.8.1.9 DEFAULT_FONT
6.8.1.10 DEFAULT_PARITY
6.8.1.11 DEFAULT_PORT
6.8.1.12 DEFAULT_SCROLLBACK
6.8.1.13 DEFAULT_STOPBITS
6.8.1.14 DEFAULT_VISUAL_BELL
6.8.1.15 LINE_FEED
6.8.1.16 MAX_SECTION_LENGTH
6.8.1.17 POLL_DELAY
6.8.1.18 RECEIVE_BUFFER
6.8.1.19 TRANSMIT_BUFFER
6.9 defaults.h
6.10 files.c File Reference
6.10.1 Variable Documentation
6.10.1.1 default_filename
6.11 files.h File Reference
6.11.1 Function Documentation
6.11.1.1 add input() 4

6.11.1.2 save_raw_file()	48
6.11.1.3 send_raw_file()	49
6.11.2 Variable Documentation	49
6.11.2.1 default_filename	49
6.11.2.2 waiting_for_char	49
6.12 files.h	49
6.13 gtkterm.c File Reference	50
6.13.1 Function Documentation	50
6.13.1.1 main()	50
6.13.2 Variable Documentation	50
6.13.2.1 gtkterm_signals	51
6.14 gtkterm.h File Reference	51
6.14.1 Macro Definition Documentation	52
6.14.1.1 GTKTERM_TYPE_APP	52
6.14.2 Typedef Documentation	52
6.14.2.1 GtkTerm	52
6.14.3 Enumeration Type Documentation	52
6.14.3.1 anonymous enum	52
6.14.4 Variable Documentation	53
6.14.4.1 gtkterm_signals	53
6.15 gtkterm.h	53
6.16 gtkterm_window.c File Reference	54
6.16.1 Function Documentation	54
6.16.1.1 create_window()	55
6.16.1.2 set_window_title()	55
6.17 gtkterm_window.h File Reference	55
6.17.1 Macro Definition Documentation	56
6.17.1.1 GTKTERM_TYPE_GTKTERM_WINDOW	56
6.17.2 Typedef Documentation	56
6.17.2.1 GtkTermWindow	56
6.17.3 Function Documentation	56
6.17.3.1 create_window()	57
6.18 gtkterm_window.h	57
6.19 interface.c File Reference	57
6.19.1 Function Documentation	58
6.19.1.1 show_message()	58
6.19.2 Variable Documentation	58
6.19.2.1 timestamp_on	59
6.19.2.2 virt_col_pos	59
6.20 interface.h File Reference	59
6.20.1 Macro Definition Documentation	59
6 20 1 1 ASCII VIEW	60

6.20.1.2 HEXADECIMAL_VIEW	0
6.20.1.3 MSG_ERR	0
6.20.1.4 MSG_WRN	0
6.20.2 Function Documentation	0
6.20.2.1 show_message()	0
6.20.3 Variable Documentation	1
6.20.3.1 display	1
6.20.3.2 Text	1
6.21 interface.h	1
6.22 macros.c File Reference	1
6.22.1 Enumeration Type Documentation	2
6.22.1.1 anonymous enum	2
6.22.2 Function Documentation	3
6.22.2.1 convert_macros_to_string()	3
6.22.2.2 convert_string_to_macros()	3
6.22.2.3 get_shortcuts()	3
6.22.2.4 macro_count()	4
6.22.2.5 remove_shortcuts()	4
6.22.3 Variable Documentation	4
6.22.3.1 macros	4
6.22.3.2 nr_of_macros	4
6.23 macros.h File Reference	5
6.23.1 Function Documentation	5
6.23.1.1 add_shortcuts()	5
6.23.1.2 convert_macros_to_string()	6
6.23.1.3 convert_string_to_macros()	6
6.23.1.4 get_shortcuts()	6
6.23.1.5 macro_count()	6
6.23.1.6 remove_shortcuts()	7
6.23.2 Variable Documentation	7
6.23.2.1 macros	7
6.24 macros.h	7
6.25 resource_file.c File Reference	8
6.25.1 Macro Definition Documentation	9
6.25.1.1 BUFFER_LENGTH	9
6.25.1.2 CONFIGURATION_FILENAME	9
6.25.2 Function Documentation	9
6.25.2.1 check_keyfile()	9
6.25.2.2 gtkterm_configuration_default_configuration()	0
6.25.2.3 gtkterm_configuration_validate()	0
6.25.2.4 on_set_config_options()	1
6.25.3 Variable Documentation	1

6.25.3.1 GtkTermConfigurationItems	72
6.26 resource_file.h File Reference	72
6.26.1 Macro Definition Documentation	73
6.26.1.1 CONF_ITEM_LENGTH	73
6.26.1.2 DEFAULT_SECTION	73
6.26.1.3 GTKTERM_TYPE_CONFIGURATION	74
6.26.2 Typedef Documentation	74
6.26.2.1 GtkTermConfiguration	74
6.26.3 Enumeration Type Documentation	74
6.26.3.1 anonymous enum	74
6.26.4 Function Documentation	75
6.26.4.1 gtkterm_configuration_new()	75
6.26.4.2 on_set_config_options()	75
6.26.5 Variable Documentation	76
6.26.5.1 GtkTermConfigurationItems	76
6.27 resource_file.h	76
6.28 serial.c File Reference	77
6.28.1 Enumeration Type Documentation	78
6.28.1.1 anonymous enum	78
6.28.2 Function Documentation	78
6.28.2.1 gtkterm_serial_port_get_string()	78
6.28.2.2 gtkterm_serial_port_new()	78
6.28.2.3 gtkterm_serial_port_status()	78
6.29 serial.h File Reference	79
6.29.1 Macro Definition Documentation	79
6.29.1.1 GTKTERM_TYPE_SERIAL_PORT	79
6.29.2 Typedef Documentation	79
6.29.2.1 GtkTermSerialPort	80
6.29.3 Function Documentation	80
6.29.3.1 gtkterm_serial_port_get_string()	80
6.29.3.2 gtkterm_serial_port_new()	80
6.29.3.3 gtkterm_serial_port_status()	80
6.30 serial.h	81
6.31 terminal.c File Reference	81
6.31.1 Enumeration Type Documentation	82
6.31.1.1 anonymous enum	82
6.31.2 Function Documentation	82
6.31.2.1 gtkterm_terminal_new()	83
6.32 terminal.h File Reference	83
6.32.1 Macro Definition Documentation	84
6.32.1.1 GTKTERM_TYPE_TERMINAL	84
6.32.2 Function Documentation	84

	ix
6.32.2.1 gtkterm_terminal_new()	. 84
6.33 terminal.h	. 85
ndex	87

GTKTerm: The source code architecture

This file describes the architecture of GTKTerm. GtkTerm has several objects and uses signals to communicate between these objects.

One of the subgoals is not to use any global variables but exchange data by the use of signals. For that only the array of signals is a global variable.

Use of GTKTerm/GtkTerm/gtkterm naming schema: In this document several ways of Upper/Lowercase combinations of GTKTerm is used:

- · GTKTerm: The name of the application
- GtkTerm: The first part of the name of the object in the source code. For example: GtkTermWindow.
- gtk_term: The first part of the function of an object in the source code. For example: gtkterm_window_init

1.1 General description

GTKTerm is build with the GTK4 framework. It uses Gobjects and communicates (mostly) through signals.

GTKTerm is the main application object. It is a holder for the keyfile. The commandline interfaces uses the application object framework to handle all commandline options. The options are connected to the relevant GObjects by signals. Almost all objects have a 'public' and 'private' part. However the 'public' part is not globally known (except for GtkTerm application object).

The core of the application is the terminal. This is a VTE object and handles all communication to and from the serial port. The terminal window holds the configuration of the terminal window and the serial ports. The configuration is copied from the GtkTerm application which holds the keyfile. It is copied back to the keyfile if it is saved. For now the GtkTerm application has just one terminal window. The architecture of GTKTerm is able to support multiple terminal windows in future releases.

1.2 Objects

This part lists an overview of all objects used in GTKTerm. For details about implementation please use the GTKTERM.pdf which is a Doxygen generated overview of the GTKTerm source code.

1.2.1 GtkTerm

GtkTerm is the main GtkApplication object for GTKTerm. It starts the gtkterm_window and handles the cmdline interface (CLI). Options given at the CLI are directly stored into the in memory keyfile. This in memory keyfile is the base for the configuration of the terminal windows. Getting configuration for the terminal window is done by signals for the [section] needed.

- 1.2.1.1 **Members**
- 1.2.1.2 Signals
- 1.2.1.3 Main functions
- 1.2.2 GtkTermWindow
- 1.2.2.1 Members
- 1.2.2.2 Signals
- 1.2.2.3 Main functions
- 1.2.3 GtkTermTerminal
- 1.2.3.1 **Members**
- 1.2.3.2 Signals
- 1.2.3.3 Main functions
- 1.2.4 GtkTermConfiguration
- 1.2.4.1 **Members**
- 1.2.4.2 Signals
- 1.2.4.3 Main functions
- 1.2.5 GtkTermSerialPort
- 1.2.5.1 **Members**
- 1.2.5.2 Signals
- 1.2.5.3 Main functions

1.3 Links

For the migration to gtk4 several links were used:

- https://docs.gtk.org/gobject/tutorial.html
- https://docs.gtk.org/glib/
- https://toshiocp.github.io/Gtk4-tutorial/index.html
- https://c-gtk.org/gapplication-part-i

Also special thanks to Jens Georg. Sellerie (an earlier fork of GTKTerm) was used as inspiration to solve some problems.

Todo List

Member GtkTermTerminalPrivate::macros

convert macros -> object

4 Todo List

Class Index

3.1 Class List

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

_Gik ierm
The main GtkTerm application class
_GtkTermConfiguration
_GtkTermConfigurationClass
_GtkTermSerialPort
_GtkTermSerialPortClass
_GtkTermTerminal
_GtkTermTerminalClass
_GtkTermWindow
The main GtkTermWindow class
GtkTermConfigurationPrivate
GtkTermSerialPortPrivate
GtkTermTerminalPrivate
macro_t
Todo: Migrate to GObject
port_config_t
term_config_t

6 Class Index

File Index

4.1 File List

Here is a list of all files with brief descriptions:

buffer.c	33
buffer.h	38
cmdline.c	41
cmdline.h	42
defaults.h	43
files.c	47
files.h	48
gtkterm.c	50
gtkterm.h	51
gtkterm_window.c	54
gtkterm_window.h	55
interface.c	57
interface.h	59
macros.c	61
macros.h	65
resource_file.c	68
resource_file.h	72
serial.c	77
serial.h	
terminal.c	
terminal h	83

8 File Index

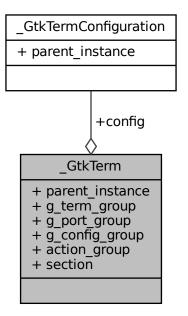
Class Documentation

5.1 _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

App action group.

• GtkTermConfiguration * config

The Key file with the configurations.

• char * section

The section provided from the cli.

5.1.1 Detailed Description

The main GtkTerm application class.

All application specific variables are defined here.

5.1.2 Member Data Documentation

5.1.2.1 action_group

GActionGroup* _GtkTerm::action_group

App action group.

5.1.2.2 config

GtkTermConfiguration* _GtkTerm::config

The Key file with the configurations.

5.1.2.3 g_config_group

 ${\tt GOptionGroup*\ _GtkTerm::g_config_group}$

Referenced by gtkterm_add_cmdline_options().

5.1.2.4 g_port_group

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

Referenced by gtkterm_add_cmdline_options().

5.1.2.5 g_term_group

```
{\tt GOptionGroup*} \ \_{\tt GtkTerm::g\_term\_group}
```

Referenced by gtkterm_add_cmdline_options().

5.1.2.6 parent_instance

```
GtkApplication _GtkTerm::parent_instance
```

5.1.2.7 section

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

The section provided from the cli.

Terminals have their own section pointer

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

• gtkterm.h

5.2 _GtkTermConfiguration Struct Reference

Collaboration diagram for _GtkTermConfiguration:

_GtkTermConfiguration + parent_instance

Public Attributes

• GObject parent_instance

5.2.1 Member Data Documentation

5.2.1.1 parent_instance

```
GObject _GtkTermConfiguration::parent_instance
```

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

· resource_file.c

5.3 _GtkTermConfigurationClass Struct Reference

Collaboration diagram for _GtkTermConfigurationClass:

_GtkTermConfigurationClass + parent_class

Public Attributes

• GObjectClass parent_class

5.3.1 Member Data Documentation

5.3.1.1 parent_class

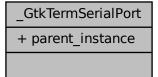
GObjectClass _GtkTermConfigurationClass::parent_class

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

resource_file.c

5.4 GtkTermSerialPort Struct Reference

Collaboration diagram for _GtkTermSerialPort:



Public Attributes

• GObject parent_instance

5.4.1 Member Data Documentation

5.4.1.1 parent_instance

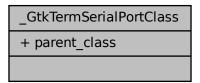
GObject _GtkTermSerialPort::parent_instance

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

· serial.c

5.5 _GtkTermSerialPortClass Struct Reference

 $Collaboration\ diagram\ for\ _GtkTermSerialPortClass:$



Public Attributes

• GObjectClass parent_class

5.5.1 Member Data Documentation

5.5.1.1 parent_class

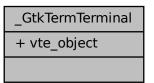
```
GObjectClass _GtkTermSerialPortClass::parent_class
```

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

• serial.c

5.6 _GtkTermTerminal Struct Reference

Collaboration diagram for _GtkTermTerminal:



Public Attributes

• VteTerminal vte_object

The actual terminal.

5.6.1 Member Data Documentation

5.6.1.1 vte_object

VteTerminal _GtkTermTerminal::vte_object

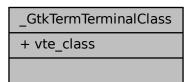
The actual terminal.

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

· terminal.c

5.7 _GtkTermTerminalClass Struct Reference

Collaboration diagram for _GtkTermTerminalClass:



Public Attributes

• VteTerminalClass vte_class

5.7.1 Member Data Documentation

5.7.1.1 vte_class

VteTerminalClass _GtkTermTerminalClass::vte_class

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

· terminal.c

GtkTermWindow Struct Reference 5.8

The main GtkTermWindow class.

Collaboration diagram for _GtkTermWindow:

GtkTermWindow

- + parent instance
- + message
- + infobar
- + statusbox
- + status_config
- + menubutton
- + toolmenu
- + scrolled_window + terminal_window
- + search bar
- + action group
- + status_config_message + status_serial_signal
- + status_message
- + width
- + height
- + maximized
- + fullscreen

Public Attributes

- GtkApplicationWindow parent_instance
- GtkWidget * message

Message for the infobar.

GtkWidget * infobar

Infobar.

GtkBox * statusbox

Box for statusbar messages.

• GtkBox * status config

Displays the actual used configuration.

GtkWidget * menubutton

Toolbar.

• GMenuModel * toolmenu

GtkScrolledWindow * scrolled_window

Make the terminal window scrolled.

GtkTermTerminal * terminal window

The terminal window.

GtkWidget * search_bar

Searchbar.

• GActionGroup * action_group

Window action group.

- GtkWidget * status_config_message [3]
- GtkWidget * status_serial_signal [6]
- GtkWidget * status_message
- int width
- · int height
- bool maximized
- bool fullscreen

5.8.1 Detailed Description

The main GtkTermWindow class.

MainWindow specific variables here.

5.8.2 Member Data Documentation

5.8.2.1 action_group

GActionGroup* _GtkTermWindow::action_group

Window action group.

5.8.2.2 fullscreen

bool _GtkTermWindow::fullscreen

5.8.2.3 height

int _GtkTermWindow::height

5.8.2.4 infobar

GtkWidget* _GtkTermWindow::infobar

Infobar.

5.8.2.5 maximized

bool _GtkTermWindow::maximized

5.8.2.6 menubutton

GtkWidget* _GtkTermWindow::menubutton

Toolbar.

5.8.2.7 message

GtkWidget* _GtkTermWindow::message

Message for the infobar.

5.8.2.8 parent_instance

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

5.8.2.9 scrolled_window

 ${\tt GtkScrolledWindow*} \ _{\tt GtkTermWindow::scrolled_window}$

Make the terminal window scrolled.

Referenced by create_window().

5.8.2.10 search_bar

GtkWidget* _GtkTermWindow::search_bar

Searchbar.

5.8.2.11 status_config

GtkBox* _GtkTermWindow::status_config

Displays the actual used configuration.

5.8.2.12 status_config_message

GtkWidget* _GtkTermWindow::status_config_message[3]

5.8.2.13 status_message

GtkWidget* _GtkTermWindow::status_message

5.8.2.14 status_serial_signal

GtkWidget* _GtkTermWindow::status_serial_signal[6]

5.8.2.15 statusbox

GtkBox* _GtkTermWindow::statusbox

Box for statusbar messages.

5.8.2.16 terminal_window

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

The terminal window.

Referenced by create_window().

5.8.2.17 toolmenu

GMenuModel* _GtkTermWindow::toolmenu

Menu.

5.8.2.18 width

```
int _GtkTermWindow::width
```

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

• gtkterm_window.c

GtkTermConfigurationPrivate Struct Reference

Collaboration diagram for GtkTermConfigurationPrivate:

GtkTermConfigurationPrivate

- + key_file + config_file

Public Attributes

• GKeyFile * key_file

The memory loaded keyfile.

• GFile * config_file

The config file.

5.9.1 Member Data Documentation

5.9.1.1 config_file

GFile* GtkTermConfigurationPrivate::config_file

The config file.

5.9.1.2 key_file

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

The memory loaded keyfile.

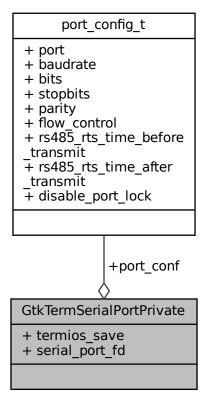
Referenced by check_keyfile(), gtkterm_configuration_default_configuration(), gtkterm_configuration_validate(), and on_set_config_options().

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

· resource_file.c

5.10 GtkTermSerialPortPrivate Struct Reference

Collaboration diagram for GtkTermSerialPortPrivate:



Public Attributes

- port_config_t * port_conf
- struct termios termios_save
- · int serial port fd

5.10.1 Member Data Documentation

5.10.1.1 port_conf

```
port_config_t* GtkTermSerialPortPrivate::port_conf
```

Referenced by gtkterm_serial_port_get_string().

5.10.1.2 serial_port_fd

int GtkTermSerialPortPrivate::serial_port_fd

Referenced by gtkterm_serial_port_get_string(), and gtkterm_serial_port_status().

5.10.1.3 termios_save

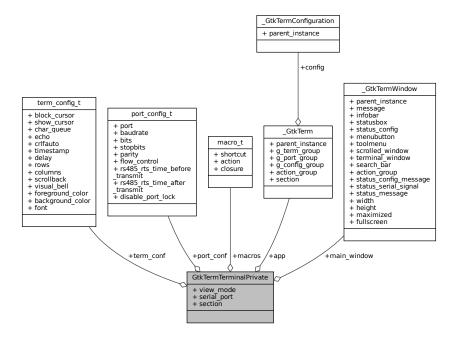
 $\verb|struct termios GtkTermSerialPortPrivate::termios_save|\\$

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

• serial.c

5.11 GtkTermTerminalPrivate Struct Reference

Collaboration diagram for GtkTermTerminalPrivate:



Public Attributes

• uint8_t view_mode

ASCII or HEX view mode.

GtkTermSerialPort * serial_port

The active serial port for this terminal.

• term_config_t * term_conf

The configuration loaded from the keyfile.

• port_config_t * port_conf

Port configuration used in this terminal.

- macro t * macros
- · char * section

Section used in this terminal for configuration from config file.

GtkTerm * app

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

GtkTermWindow * main_window

Pointer to the main window for updating the statusbar on changes.

5.11.1 Member Data Documentation

5.11.1.1 app

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

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

5.11.1.2 macros

```
macro_t* GtkTermTerminalPrivate::macros
```

Todo convert macros -> object

5.11.1.3 main_window

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

Pointer to the main window for updating the statusbar on changes.

5.11.1.4 port_conf

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

Port configuration used in this terminal.

5.11.1.5 section

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

Section used in this terminal for configuration from config file.

5.11.1.6 serial_port

GtkTermSerialPort* GtkTermTerminalPrivate::serial_port

The active serial port for this terminal.

5.11.1.7 term_conf

```
term_config_t* GtkTermTerminalPrivate::term_conf
```

The configuration loaded from the keyfile.

5.11.1.8 view_mode

uint8_t GtkTermTerminalPrivate::view_mode

ASCII or HEX view mode.

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

• terminal.c

5.12 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

Shortcut of the macro.

• char * action

Command to perform.

• GClosure * closure

26 Class Documentation

5.12.1 Detailed Description

todo: Migrate to GObject

Define macro structure type

5.12.2 Member Data Documentation

5.12.2.1 action

char* macro_t::action

Command to perform.

Referenced by convert_macros_to_string(), and convert_string_to_macros().

5.12.2.2 closure

GClosure* macro_t::closure

5.12.2.3 shortcut

char* macro_t::shortcut

Shortcut of the macro.

Referenced by convert_macros_to_string(), and convert_string_to_macros().

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

· macros.h

5.13 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

5.13.1 Member Data Documentation

5.13.1.1 baudrate

long int port_config_t::baudrate

Referenced by gtkterm_serial_port_get_string().

28 Class Documentation

5.13.1.2 bits

```
int port_config_t::bits
```

Referenced by gtkterm_serial_port_get_string().

5.13.1.3 disable_port_lock

bool port_config_t::disable_port_lock

5.13.1.4 flow_control

 $\verb"int port_config_t::flow_control"$

5.13.1.5 parity

int port_config_t::parity

Referenced by gtkterm_serial_port_get_string().

5.13.1.6 port

char* port_config_t::port

Referenced by gtkterm_serial_port_get_string().

5.13.1.7 rs485_rts_time_after_transmit

int port_config_t::rs485_rts_time_after_transmit

5.13.1.8 rs485_rts_time_before_transmit

int port_config_t::rs485_rts_time_before_transmit

5.13.1.9 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

5.14 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

30 Class Documentation

5.14.1 Member Data Documentation

5.14.1.1 background_color

GdkRGBA term_config_t::background_color

5.14.1.2 block_cursor

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

5.14.1.3 char_queue

char term_config_t::char_queue

5.14.1.4 columns

int term_config_t::columns

5.14.1.5 crlfauto

bool term_config_t::crlfauto

5.14.1.6 delay

int term_config_t::delay

5.14.1.7 echo

bool term_config_t::echo

5.14.1.8 font

 ${\tt PangoFontDescription*\ term_config_t::} font$

5.14.1.9 foreground_color

GdkRGBA term_config_t::foreground_color

5.14.1.10 rows

int term_config_t::rows

5.14.1.11 scrollback

int term_config_t::scrollback

5.14.1.12 show_cursor

bool term_config_t::show_cursor

5.14.1.13 timestamp

bool term_config_t::timestamp

5.14.1.14 visual_bell

bool term_config_t::visual_bell

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

• terminal.h

32 Class Documentation

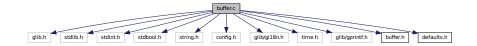
Chapter 6

File Documentation

6.1 README_source.md File Reference

6.2 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

6.2.1 Macro Definition Documentation

6.2.1.1 MAX_SECTION_LENGTH

```
#define MAX_SECTION_LENGTH 32
```

6.2.1.2 TIMESTAMP_SIZE

```
#define TIMESTAMP_SIZE 50
```

6.2.2 Function Documentation

6.2.2.1 clear_buffer()

```
void clear_buffer (
     void )
```

References clear_func.

6.2 buffer.c File Reference 35

6.2.2.2 create_buffer()

```
void create_buffer (
     void )
```

6.2.2.3 delete_buffer()

```
void delete_buffer (
     void )
```

6.2.2.4 insert_timestamp()

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

6.2.2.5 put_chars()

References RECEIVE_BUFFER, timestamp_on, and TIMESTAMP_SIZE.

6.2.2.6 set_clear_func()

References clear_func.

6.2.2.7 set_display_func()

References write_func.

6.2.2.8 unset_clear_func()

References clear_func.

6.2.2.9 unset_display_func()

References write_func.

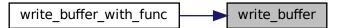
6.2.2.10 write_buffer()

```
void write_buffer (
     void )
```

References overlapped, and write_func.

Referenced by write_buffer_with_func().

Here is the caller graph for this function:



6.2.2.11 write_buffer_with_func()

References write_buffer(), and write_func.

Here is the call graph for this function:



6.2 buffer.c File Reference 37

6.2.3 Variable Documentation

6.2.3.1 clear_func

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

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

6.2.3.2 overlapped

char overlapped

Referenced by write_buffer().

6.2.3.3 timestamp_on

```
bool timestamp_on [extern]
```

Referenced by put_chars().

6.2.3.4 virt_col_pos

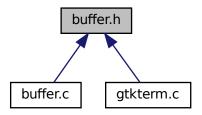
```
unsigned int virt_col_pos [extern]
```

6.2.3.5 write_func

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

6.3 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))

6.3.1 Macro Definition Documentation

6.3.1.1 BUFFER_SIZE

#define BUFFER_SIZE (128 * 1024)

6.3.2 Function Documentation

6.3 buffer.h File Reference 39

6.3.2.1 clear_buffer()

```
void clear_buffer (
     void )
```

References clear_func.

6.3.2.2 create_buffer()

```
void create_buffer (
     void )
```

6.3.2.3 delete_buffer()

```
void delete_buffer (
     void )
```

6.3.2.4 put_chars()

References RECEIVE_BUFFER, timestamp_on, and TIMESTAMP_SIZE.

6.3.2.5 set_clear_func()

References clear_func.

6.3.2.6 set_display_func()

6.3.2.7 unset_clear_func()

References clear_func.

6.3.2.8 unset_display_func()

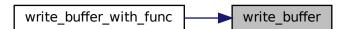
6.3.2.9 write_buffer()

```
void write_buffer (
     void )
```

References overlapped, and write_func.

Referenced by write_buffer_with_func().

Here is the caller graph for this function:



6.3.2.10 write_buffer_with_func()

6.4 buffer.h 41

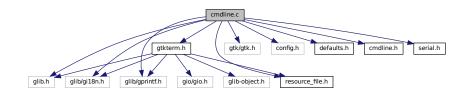
6.4 buffer.h

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
```

6.5 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)

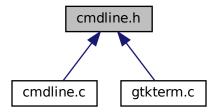
6.5.1 Function Documentation

6.5.1.1 gtkterm_add_cmdline_options()

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

6.6 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

6.6.1 Function Documentation

6.6.1.1 gtkterm_add_cmdline_options()

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

6.7 cmdline.h

6.6.2 Variable Documentation

6.6.2.1 g_term_group

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

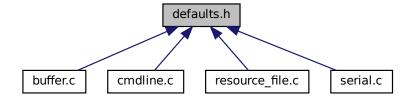
6.7 cmdline.h

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
```

6.8 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

in ms (for control signals)

• #define BUFFER_LENGTH 256

Generic defaults.

• #define MAX_SECTION_LENGTH 32

6.8.1 Macro Definition Documentation

6.8.1.1 BUFFER_LENGTH

#define BUFFER_LENGTH 256

Generic defaults.

6.8.1.2 DEFAULT BAUDRATE

#define DEFAULT_BAUDRATE 115200

6.8.1.3 DEFAULT_BITS

#define DEFAULT_BITS 8

6.8.1.4 DEFAULT_CHAR

#define DEFAULT_CHAR -1

6.8.1.5 DEFAULT_DELAY

#define DEFAULT_DELAY 0

6.8.1.6 DEFAULT_DELAY_RS485

#define DEFAULT_DELAY_RS485 30

6.8.1.7 DEFAULT_ECHO

#define DEFAULT_ECHO "false"

6.8.1.8 DEFAULT_FLOW

#define DEFAULT_FLOW "none"

6.8.1.9 **DEFAULT_FONT**

#define DEFAULT_FONT "Monospace 12"

Default for VTE-terminal.

6.8.1.10 DEFAULT_PARITY

#define DEFAULT_PARITY "none"

6.8.1.11 DEFAULT_PORT

#define DEFAULT_PORT "/dev/ttyS0"

Default for serial ports.

6.8.1.12 DEFAULT_SCROLLBACK

#define DEFAULT_SCROLLBACK 10000

6.8.1.13 DEFAULT_STOPBITS

#define DEFAULT_STOPBITS 1

6.8.1.14 DEFAULT_VISUAL_BELL

#define DEFAULT_VISUAL_BELL "false"

6.8.1.15 LINE_FEED

#define LINE_FEED 0x0A

6.8.1.16 MAX_SECTION_LENGTH

#define MAX_SECTION_LENGTH 32

6.8.1.17 POLL_DELAY

#define POLL_DELAY 100

in ms (for control signals)

6.9 defaults.h

6.8.1.18 RECEIVE_BUFFER

```
#define RECEIVE_BUFFER 8192
```

6.8.1.19 TRANSMIT_BUFFER

```
#define TRANSMIT_BUFFER 4096
```

6.9 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
```

6.10 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

6.10.1 Variable Documentation

6.10.1.1 default_filename

```
char* default_filename = NULL
```

6.11 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

6.11.1 Function Documentation

6.11.1.1 add_input()

```
void add_input (
     void )
```

6.11.1.2 save_raw_file()

6.12 files.h 49

6.11.1.3 send_raw_file()

6.11.2 Variable Documentation

6.11.2.1 default filename

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

6.11.2.2 waiting_for_char

```
gboolean waiting_for_char [extern]
```

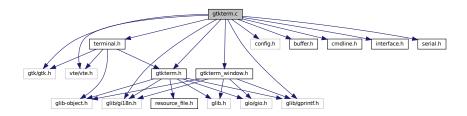
6.12 files.h

Go to the documentation of this file.

6.13 gtkterm.c File Reference

```
#include <gtk/gtk.h>
#include <vte/vte.h>
#include <glib/gi18n.h>
#include <glib/gprintf.h>
#include "config.h"
#include "gtkterm.h"
#include "gtkterm_window.h"
#include "terminal.h"
#include "buffer.h"
#include "cmdline.h"
#include "interface.h"
#include "serial.h"
```

Include dependency graph for gtkterm.c:



Functions

• int main (int argc, char *argv[])

Variables

• unsigned int gtkterm_signals [LAST_GTKTERM_SIGNAL]

6.13.1 Function Documentation

6.13.1.1 main()

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

References GTKTERM_TYPE_APP.

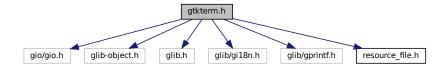
6.13.2 Variable Documentation

6.13.2.1 gtkterm_signals

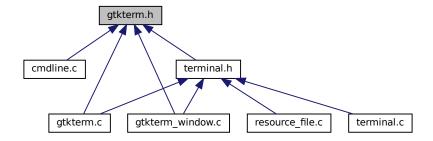
 $unsigned\ int\ gtkterm_signals[LAST_GTKTERM_SIGNAL]$

6.14 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 <u>GtkTerm</u>

The main GtkTerm application class.

Macros

• #define GTKTERM_TYPE_APP gtkterm_get_type()

Typedefs

• typedef struct _GtkTerm GtkTerm

Enumerations

enum {
 SIGNAL_GTKTERM_LOAD_CONFIG, SIGNAL_GTKTERM_SAVE_CONFIG, SIGNAL_GTKTERM_REMOVE_SECTION
 , SIGNAL_GTKTERM_PRINT_SECTION,
 SIGNAL_GTKTERM_COPY_SECTION, SIGNAL_GTKTERM_CONFIG_TERMINAL, SIGNAL_GTKTERM_CONFIG_SERIAL
 , SIGNAL_GTKTERM_TERMINAL_CHANGED,
 LAST_GTKTERM_SIGNAL }

Variables

• unsigned int gtkterm_signals []

6.14.1 Macro Definition Documentation

6.14.1.1 GTKTERM_TYPE_APP

#define GTKTERM_TYPE_APP gtkterm_get_type()

6.14.2 Typedef Documentation

6.14.2.1 GtkTerm

typedef struct _GtkTerm GtkTerm

6.14.3 Enumeration Type Documentation

6.14.3.1 anonymous enum

anonymous enum

6.15 gtkterm.h 53

Enumerator

SIGNAL_GTKTERM_LOAD_CONFIG	
SIGNAL_GTKTERM_SAVE_CONFIG	
SIGNAL_GTKTERM_REMOVE_SECTION	
SIGNAL_GTKTERM_PRINT_SECTION	
SIGNAL_GTKTERM_COPY_SECTION	
SIGNAL_GTKTERM_CONFIG_TERMINAL	
SIGNAL_GTKTERM_CONFIG_SERIAL	
SIGNAL_GTKTERM_TERMINAL_CHANGED	
LAST_GTKTERM_SIGNAL	

6.14.4 Variable Documentation

6.14.4.1 gtkterm_signals

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

6.15 gtkterm.h

Go to the documentation of this file.

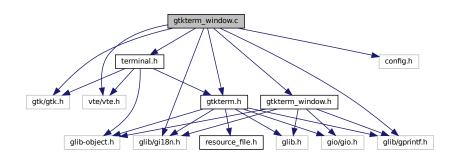
```
2 #ifndef GTKTERM_H
3 #define GTKTERM_H
5 #include <gio/gio.h>
6 #include <glib-object.h>
7 #include <glib.h>
8 #include <glib/gi18n.h>
9 #include <glib/gprintf.h>
10
11 #include "resource_file.h"
12
13 enum {
     SIGNAL_GTKTERM_LOAD_CONFIG,
14
15
        SIGNAL_GTKTERM_SAVE_CONFIG,
        SIGNAL_GTKTERM_REMOVE_SECTION,
17
       SIGNAL_GTKTERM_PRINT_SECTION,
       SIGNAL_GTKTERM_COPY_SECTION,
SIGNAL_GTKTERM_CONFIG_TERMINAL,
SIGNAL_GTKTERM_CONFIG_SERIAL,
18
19
20
         SIGNAL_GTKTERM_TERMINAL_CHANGED,
        LAST_GTKTERM_SIGNAL
23 };
24
25 extern unsigned int gtkterm_signals[];
26
27 G_BEGIN_DECLS
28
29 //! @brief The main GtkTerm application class.
30 //! All application specific variables are defined here.
31 struct <u>_GtkTerm</u> {
32
33
     GtkApplication parent_instance;
34
     GOptionGroup *g_term_group;
GOptionGroup *g_port_group;
35
36
37
     GOptionGroup *g_config_group;
38
39
     GActionGroup *action_group;
                                                      //!< App action group
```

```
41 GtkTermConfiguration *config; //!< The Key file with the configurations
42 char *section; //!< The section provided from the cli.
43 //!< Terminals have their own section pointer
44 };
45
46 #define GTKTERM_TYPE_APP gtkterm_get_type()
47 typedef struct _GtkTerm GtkTerm;
48 G_DECLARE_FINAL_TYPE (GtkTerm, gtkterm, GTKTERM, APP, GtkApplication)
49
50
51 #endif // GTKTERM_H
```

6.16 gtkterm_window.c File Reference

```
#include <gtk/gtk.h>
#include <vte/vte.h>
#include <glib/gi18n.h>
#include <glib/gprintf.h>
#include "config.h"
#include "gtkterm.h"
#include "gtkterm_window.h"
#include "terminal.h"
```

Include dependency graph for gtkterm_window.c:



Classes

struct GtkTermWindow

The main GtkTermWindow class.

Functions

- void set_window_title (GtkTermWindow *, gpointer)
- void create_window (GApplication *app)

6.16.1 Function Documentation

6.16.1.1 create_window()

```
void create_window ( {\tt GApplication} \ * \ app \ )
```

Create a new terminal window and send section and keyfile as parameter GTKTERM_TERMINAL then can load the right section.

Make the VTE window scrollable

References gtkterm_terminal_new(), _GtkTermWindow::scrolled_window, and _GtkTermWindow::terminal_window.

Here is the call graph for this function:

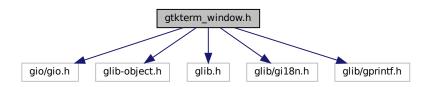


6.16.1.2 set_window_title()

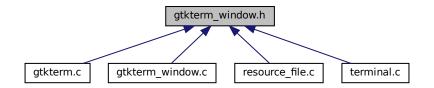
6.17 gtkterm_window.h File Reference

```
#include <gio/gio.h>
#include <glib-object.h>
#include <glib.h>
#include <glib/gi18n.h>
#include <glib/gprintf.h>
```

Include dependency graph for gtkterm_window.h:



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



Macros

• #define GTKTERM_TYPE_GTKTERM_WINDOW gtkterm_window_get_type()

Typedefs

typedef struct _GtkTermWindow GtkTermWindow

Functions

• G_END_DECLS void create_window (GApplication *)

6.17.1 Macro Definition Documentation

6.17.1.1 GTKTERM_TYPE_GTKTERM_WINDOW

#define GTKTERM_TYPE_GTKTERM_WINDOW gtkterm_window_get_type()

6.17.2 Typedef Documentation

6.17.2.1 GtkTermWindow

typedef struct _GtkTermWindow GtkTermWindow

6.17.3 Function Documentation

6.18 gtkterm_window.h 57

6.17.3.1 create_window()

```
G_END_DECLS void create_window ( {\tt GApplication} \ * \ app \ )
```

Create a new terminal window and send section and keyfile as parameter GTKTERM_TERMINAL then can load the right section.

Make the VTE window scrollable

References gtkterm_terminal_new(), _GtkTermWindow::scrolled_window, and _GtkTermWindow::terminal_window.

Here is the call graph for this function:



6.18 gtkterm_window.h

Go to the documentation of this file.

```
1 #include <gio/gio.h>
2 #include <glib-object.h>
3 #include <glib.h>
4 #include <glib/gil8n.h>
5 #include <glib/gil8n.h>
5 #include <glib/gprintf.h>

6
7 #ifndef GTKTERM_WINDOW_H
8 #define GTKTERM_WINDOW_H
9
10 G_BEGIN_DECLS
11
12 #define GTKTERM_TYPE_GTKTERM_WINDOW gtkterm_window_get_type()
13 typedef struct _GtkTermWindow GtkTermWindow;
14 G_DECLARE_FINAL_TYPE (GtkTermWindow, gtkterm_window, GTKTERM, WINDOW, GtkApplicationWindow)
15
16 G_END_DECLS
17
18 void create_window (GApplication *);
19
20 #endif // GTKTERM_WINDOW_H
```

6.19 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 <glib/gprintf.h>
```

#include "interface.h"
Include dependency graph for interface.c:



Functions

• void show_message (char *message, int type_msg)

Variables

- bool timestamp_on = 0
- int virt_col_pos = 0

6.19.1 Function Documentation

6.19.1.1 show_message()

References MSG_ERR.

Referenced by gtkterm_configuration_validate().

Here is the caller graph for this function:



6.19.2 Variable Documentation

6.19.2.1 timestamp_on

bool timestamp_on = 0

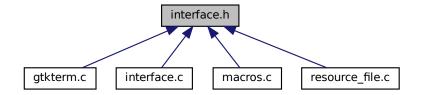
Referenced by put_chars().

6.19.2.2 virt_col_pos

int virt_col_pos = 0

6.20 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

6.20.1 Macro Definition Documentation

6.20.1.1 ASCII_VIEW

```
#define ASCII_VIEW 0
```

6.20.1.2 HEXADECIMAL_VIEW

```
#define HEXADECIMAL_VIEW 1
```

6.20.1.3 MSG_ERR

```
#define MSG_ERR 1
```

6.20.1.4 MSG_WRN

```
#define MSG_WRN 0
```

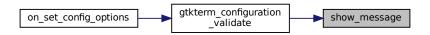
6.20.2 Function Documentation

6.20.2.1 show_message()

References MSG_ERR.

Referenced by gtkterm_configuration_validate().

Here is the caller graph for this function:



6.21 interface.h

6.20.3 Variable Documentation

6.20.3.1 display

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

6.20.3.2 Text

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

6.21 interface.h

Go to the documentation of this file.

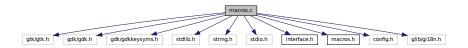
```
2 /* interface.h
      GTKTerm Software
4 /*
                    (c) Julien Schmitt
9 /* Purpose
10 /* Fund
     Functions for the management of the GUI for the main window - Header file -
11 /*
15 #ifndef WIDGETS_H_
16 #define WIDGETS_H_
17
18 #define MSG_WRN
19 #define MSG_ERR
21 #define ASCII_VIEW
22 #define HEXADECIMAL_VIEW 1
2.3
24 extern GtkWidget *Text;
25 extern GtkWidget *display;
                                // Serial terminal (vte)
27 void show_message(char *, int);
29 #endif
```

6.22 macros.c File Reference

```
#include <gtk/gtk.h>
#include <gdk/gdk.h>
#include <gdk/gdkkeysyms.h>
#include <stdlib.h>
#include <string.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 }

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)

Remove shortcuts from accel_group and free memory.

Variables

- macro_t * macros = NULL
- int nr_of_macros = 0

6.22.1 Enumeration Type Documentation

6.22.1.1 anonymous enum

anonymous enum

Todo : Migrate to GObject

Enumerator

COLUMN_SHORTCUT	
COLUMN_ACTION	
NUM_COLUMNS	

6.22.2 Function Documentation

6.22.2.1 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.

6.22.2.2 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:



6.22.2.3 get_shortcuts()

```
macro_t * get_shortcuts ( int * size )
```

References macros.

6.22.2.4 macro_count()

```
int macro_count ( )
```

References nr_of_macros.

6.22.2.5 remove_shortcuts()

```
void remove_shortcuts (
     void )
```

Remove shortcuts from accel_group and free memory.

Clean up all macros

References macros.

Referenced by convert_string_to_macros().

Here is the caller graph for this function:



6.22.3 Variable Documentation

6.22.3.1 macros

```
macro_t* macros = NULL
```

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

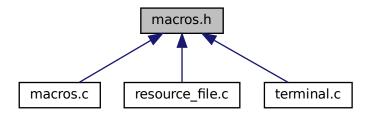
6.22.3.2 nr_of_macros

```
int nr_of_macros = 0
```

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

6.23 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)

Remove shortcuts from accel_group and free memory.

- void add_shortcuts (void)
- 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

6.23.1 Function Documentation

6.23.1.1 add_shortcuts()

```
void add_shortcuts (
     void )
```

6.23.1.2 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.

6.23.1.3 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:

```
convert_string_to_macros remove_shortcuts
```

6.23.1.4 get_shortcuts()

6.23.1.5 macro_count()

```
int macro_count ( )
```

References nr_of_macros.

6.24 macros.h 67

6.23.1.6 remove_shortcuts()

Remove shortcuts from accel_group and free memory.

Clean up all macros

References macros.

Referenced by convert_string_to_macros().

Here is the caller graph for this function:



6.23.2 Variable Documentation

6.23.2.1 macros

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

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

6.24 macros.h

Go to the documentation of this file.

```
22 {
     char *shortcut;
                     //!< Shortcut of the macro
24
     char *action;
                   //!< Command to perform
     GClosure *closure; //!<
2.5
26 1
27 macro t:
29 //void config_macros(GtkAction *action, gpointer data);
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 ();
38
39 extern macro_t *macros;
41 #endif
```

6.25 resource_file.c File Reference

```
#include <stdio.h>
#include <stdbool.h>
#include <sys/stat.h>
#include <glib.h>
#include <glib/gi18n.h>
#include <qlib/qprintf.h>
#include <glib-object.h>
#include <gtk/gtk.h>
#include <gio/gio.h>
#include <pango/pango-font.h>
#include "config.h"
#include "gtkterm_window.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

Bufferlength for strings.

Functions

- void gtkterm_configuration_default_configuration (GtkTermConfiguration *self, char *section)

 Create a new < default> configuration.
- void gtkterm_configuration_validate (GtkTermConfiguration *self, 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.

6.25.1 Macro Definition Documentation

6.25.1.1 BUFFER_LENGTH

```
#define BUFFER_LENGTH 256
```

Bufferlength for strings.

6.25.1.2 CONFIGURATION_FILENAME

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

Default configuration filename.

Name of the resource file

6.25.2 Function Documentation

6.25.2.1 check_keyfile()

Load keyfile if it is nog loaded yet

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

References GtkTermConfigurationPrivate::key_file.

6.25.2.2 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_BLOCK_CURSO CONF_ITEM_TERM_COLS, CONF_ITEM_TERM_CRLF_AUTO, CONF_ITEM_TERM_ECHO, 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 DELAY RS485, DEFAULT ECHO, DEFAULT FLOW, DEFAULT FONT, DEFAULT PARITY, DEFAULT PORT, DEFAULT SCROLLBACK, DEFAULT STOPBITS, DEFAULT VISUAL BELL, GtkTermConfigurationItems, and GtkTermConfigurationPrivate::key file.

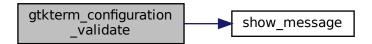
6.25.2.3 gtkterm configuration validate()

validate the configuration, given by the section.

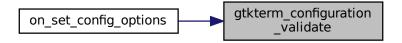
References CONF_ITEM_SERIAL_BAUDRATE, CONF_ITEM_SERIAL_BITS, CONF_ITEM_SERIAL_STOPBITS, CONF_ITEM_TERM_FONT, CONF_ITEM_TERM_WAIT_DELAY, DEFAULT_BITS, DEFAULT_DELAY, DEFAULT_FONT, DEFAULT_STOPBITS, GtkTermConfigurationItems, GtkTermConfigurationPrivate::key_file, MSG_ERR, and show message().

Referenced by on_set_config_options().

Here is the call graph for this function:



Here is the caller graph for this function:



6.25.2.4 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_DELAY, gtkterm_configuration_validate(), GtkTermConfigurationItems, and GtkTermConfigurationPrivate::key_file.

Here is the call graph for this function:



6.25.3 Variable Documentation

6.25.3.1 GtkTermConfigurationItems

const char GtkTermConfigurationItems[][CONF_ITEM_LENGTH]

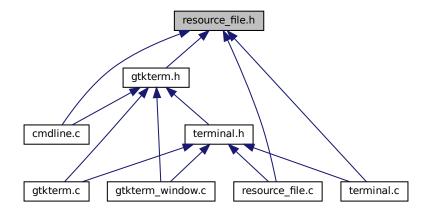
Used configuration options to hold consistency between load/save functions.

Configuration item names.

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

6.26 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"

Default section if not specified.

• #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 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_FOREG , CONF ITEM TERM BACKGROUND RED. 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.

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.

6.26.1 Macro Definition Documentation

6.26.1.1 CONF_ITEM_LENGTH

#define CONF_ITEM_LENGTH 32

6.26.1.2 DEFAULT_SECTION

#define DEFAULT_SECTION "default"

Default section if not specified.

6.26.1.3 GTKTERM_TYPE_CONFIGURATION

#define GTKTERM_TYPE_CONFIGURATION gtkterm_configuration_get_type ()

6.26.2 Typedef Documentation

6.26.2.1 GtkTermConfiguration

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

6.26.3 Enumeration Type Documentation

6.26.3.1 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	

Enumerator

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.

6.26.4 Function Documentation

6.26.4.1 gtkterm configuration new()

6.26.4.2 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, gtkterm_configuration_validate(), GtkTermConfigurationItems, and GtkTermConfigurationPrivate::key_file.

Here is the call graph for this function:



6.26.5 Variable Documentation

6.26.5.1 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().

6.27 resource_file.h

Go to the documentation of this file.

```
2 * resource_file.h
              GTKTerm Software
                          (c) Julien Schmitt
8 *
      \brief Purpose
         Load and save configuration file
10 *
          - Header file -
11 *
15 #ifndef RESOURCE FILE H
16 #define RESOURCE_FILE_H_
18 #define CONF_ITEM_LENGTH
19 #define DEFAULT_SECTION
                                    "default"
                                                      //!< Default section if not specified
2.0
21 //! Define all configuration items which are used
22 //! in the resource file. it is an index to ConfigurationItem.
23 enum {
           CONF_ITEM_SERIAL_PORT,
25
           CONF_ITEM_SERIAL_BAUDRATE,
26
           CONF_ITEM_SERIAL_BITS,
           CONF_ITEM_SERIAL_STOPBITS,
27
           CONF_ITEM_SERIAL_PARITY,
CONF_ITEM_SERIAL_FLOW_CONTROL,
28
29
30
           CONF_ITEM_TERM_WAIT_DELAY,
           CONF_ITEM_TERM_WAIT_CHAR,
32
           CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX,
33
           CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX,
           CONF_ITEM_TERM_MACROS,
34
           CONF_ITEM_TERM_RAW_FILENAME,
35
           CONF_ITEM_TERM_ECHO,
36
37
           CONF_ITEM_TERM_CRLF_AUTO,
38
           CONF_ITEM_SERIAL_DISABLE_PORT_LOCK,
           CONF_ITEM_TERM_FONT,
CONF_ITEM_TERM_TIMESTAMP,
39
40
           CONF_ITEM_TERM_BLOCK_CURSOR,
41
           CONF_ITEM_TERM_SHOW_CURSOR,
42
43
           CONF_ITEM_TERM_ROWS,
44
           CONF_ITEM_TERM_COLS,
           CONF_ITEM_TERM_SCROLLBACK,
CONF_ITEM_TERM_VISUAL_BELL,
CONF_ITEM_TERM_FOREGROUND_RED,
45
46
47
           CONF_ITEM_TERM_FOREGROUND_GREEN,
48
49
           CONF_ITEM_TERM_FOREGROUND_BLUE,
50
           CONF_ITEM_TERM_FOREGROUND_ALPHA,
51
           CONF_ITEM_TERM_BACKGROUND_RED,
           CONF_ITEM_TERM_BACKGROUND_GREEN, CONF_ITEM_TERM_BACKGROUND_BLUE,
52
53
54
           CONF_ITEM_TERM_BACKGROUND_ALPHA,
           CONF_ITEM_LAST
                                                     //!< Checking as last item in the list.
```

6.28 serial.c File Reference 77

```
56 };
57
58 //!Configuration item names.
59 extern const char GtkTermConfigurationItems [][CONF_ITEM_LENGTH];
60
61 G_BEGIN_DECLS
62
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;
66
67 GtkTermConfiguration *gtkterm_configuration_new (void);
68
69 bool on_set_config_options (const char *, const char *, gpointer, GError **);
70
71 G_END_DECLS
72
73 #endif
```

6.28 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 <glib/gi18n.h>
#include "serial.h"
#include "defaults.h"
Include dependency graph for serial.c:
```

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)

6.28.1 Enumeration Type Documentation

6.28.1.1 anonymous enum

anonymous enum

Enumerator

PROP_0	
PROP_PORT_CONFIG	
N_PROPS	

6.28.2 Function Documentation

6.28.2.1 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.

6.28.2.2 gtkterm_serial_port_new()

References GTKTERM_TYPE_SERIAL_PORT.

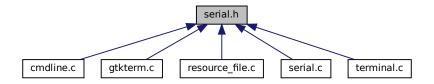
6.28.2.3 gtkterm_serial_port_status()

References GtkTermSerialPortPrivate::serial_port_fd.

6.29 serial.h File Reference 79

6.29 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 *)

6.29.1 Macro Definition Documentation

6.29.1.1 GTKTERM_TYPE_SERIAL_PORT

#define GTKTERM_TYPE_SERIAL_PORT gtkterm_serial_port_get_type ()

6.29.2 Typedef Documentation

6.29.2.1 GtkTermSerialPort

typedef typedefG_BEGIN_DECLS struct _GtkTermSerialPort GtkTermSerialPort

6.29.3 Function Documentation

6.29.3.1 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::stopbits.

6.29.3.2 gtkterm_serial_port_new()

References GTKTERM_TYPE_SERIAL_PORT.

6.29.3.3 gtkterm_serial_port_status()

References GtkTermSerialPortPrivate::serial_port_fd.

6.30 serial.h 81

6.30 serial.h

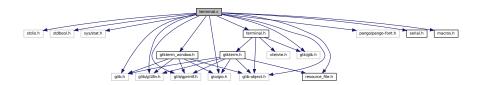
```
Go to the documentation of this file.
```

```
2 /* serial.h
               GTKTerm Software
                        (c) Julien Schmitt
8 /*
9 /* Purpose
        Serial port access functions
10 /*
          - Header file -
14
15 #ifndef SERIAL H
16 #define SERIAL_H_
18 typedef struct
19 {
20
       char *port;
                                         // 300 - 600 - 1200 - ... - 2000000
21
       long int baudrate:
                                         // 5 - 6 - 7 - 8
// 1 - 2
      int bits;
     int stopbits; //
int parity; // 0
int flow_control;
int rs485_rts_time_before_transmit;
                                       // 0 : None, 1 : Odd, 2 : Even
// 0 : None, 1 : Xon/Xoff, 2 : RTS/CTS, 3 : RS485halfduplex
25
2.6
2.7
      int rs485_rts_time_after_transmit;
      bool disable_port_lock;
28
30 } port_config_t;
31
32 G_BEGIN_DECLS
33
34 typedef struct _GtkTermSerialPort GtkTermSerialPort;
35
36  #define GTKTERM_TYPE_SERIAL_PORT gtkterm_serial_port_get_type ()
37  G_DECLARE_FINAL_TYPE (GtkTermSerialPort, gtkterm_serial_port, GTKTERM, SERIAL_PORT, GObject)
39 GtkTermSerialPort *gtkterm_serial_port_new (port_config_t *);
40
43 char* gtkterm_serial_port_get_string (GtkTermSerialPort *);
44 int gtkterm_serial_port_status (GtkTermSerialPort *);
4.5
46 #endif
```

6.31 terminal.c File Reference

```
#include <stdio.h>
#include <stdbool.h>
#include <sys/stat.h>
#include <glib.h>
#include <glib/gil8n.h>
#include <glib/gprintf.h>
#include <glib-object.h>
#include <glib-object.h>
#include <gio/gio.h>
#include <pango/pango-font.h>
#include "gtkterm_window.h"
#include "terminal.h"
#include "serial.h"
#include "macros.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)

6.31.1 Enumeration Type Documentation

6.31.1.1 anonymous enum

anonymous enum

Enumerator

PROP_0	
PROP_SECTION	
PROP_GTKTERM_APP	
PROP_MAIN_WINDOW	
N_PROPS	

6.31.2 Function Documentation

6.31.2.1 gtkterm_terminal_new()

References GTKTERM_TYPE_TERMINAL.

Referenced by create_window().

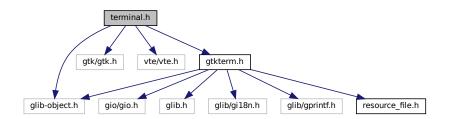
Here is the caller graph for this function:



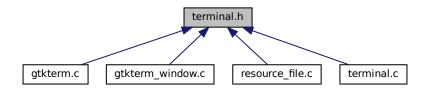
6.32 terminal.h File Reference

```
#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 *)

6.32.1 Macro Definition Documentation

6.32.1.1 GTKTERM_TYPE_TERMINAL

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

6.32.2 Function Documentation

6.32.2.1 gtkterm_terminal_new()

References GTKTERM_TYPE_TERMINAL.

Referenced by create_window().

Here is the caller graph for this function:



6.33 terminal.h

6.33 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 /*
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;
     int delay;
31
                               // 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
```

Index

GtkTerm, 9	GtkTermTerminalPrivate, 23
action_group, 10	ASCII VIEW
config, 10	interface.h, 59
g_config_group, 10	monassin, so
g_port_group, 10	background_color
g_term_group, 11	term_config_t, 30
parent_instance, 11	baudrate
section, 11	port_config_t, 27
_GtkTermConfiguration, 11	bits
parent_instance, 12	port_config_t, 27
_GtkTermConfigurationClass, 12	block_cursor
parent_class, 12	term_config_t, 30
_GtkTermSerialPort, 13	buffer.c, 33
parent_instance, 13	clear_buffer, 34
. —	clear_func, 37
_GtkTermSerialPortClass, 13	create_buffer, 34
parent_class, 14	delete buffer, 35
_GtkTermTerminal, 14	insert_timestamp, 35
vte_object, 14	MAX SECTION LENGTH, 34
_GtkTermTerminalClass, 15	overlapped, 37
vte_class, 15	put_chars, 35
_GtkTermWindow, 16	• —
action_group, 17	set_clear_func, 35
fullscreen, 17	set_display_func, 35
height, 17	timestamp_on, 37
infobar, 17	TIMESTAMP_SIZE, 34
maximized, 17	unset_clear_func, 35
menubutton, 18	unset_display_func, 36
message, 18	virt_col_pos, 37
parent_instance, 18	write_buffer, 36
scrolled_window, 18	write_buffer_with_func, 36
search_bar, 18	write_func, 37
status_config, 18	buffer.h, 38, 41
status_config_message, 19	BUFFER_SIZE, 38
status_message, 19	clear_buffer, 38
status_serial_signal, 19	create_buffer, 39
statusbox, 19	delete_buffer, 39
terminal_window, 19	put_chars, 39
toolmenu, 19	set_clear_func, 39
width, 20	set_display_func, 39
	unset_clear_func, 39
action	unset_display_func, 40
macro_t, 26	write_buffer, 40
action_group	write_buffer_with_func, 40
_GtkTerm, 10	BUFFER_LENGTH
_GtkTermWindow, 17	defaults.h, 44
add_input	resource_file.c, 69
files.h, 48	BUFFER_SIZE
add_shortcuts	buffer.h, 38
macros.h, 65	•
app	char_queue
• •	

term_config_t, 30	resource_file.h, 74
check_keyfile	CONF_ITEM_TERM_FONT
resource_file.c, 69	resource_file.h, 74
clear_buffer	CONF_ITEM_TERM_FOREGROUND_ALPHA
buffer.c, 34	resource_file.h, 75
buffer.h, 38	CONF_ITEM_TERM_FOREGROUND_BLUE
clear_func	resource_file.h, 75
buffer.c, 37	CONF_ITEM_TERM_FOREGROUND_GREEN
closure	resource_file.h, 75
macro_t, 26	CONF_ITEM_TERM_FOREGROUND_RED
cmdline.c, 41	resource_file.h, 75
gtkterm_add_cmdline_options, 42	CONF_ITEM_TERM_MACROS
cmdline.h, 42, 43	resource_file.h, 74
g_term_group, 43	CONF_ITEM_TERM_RAW_FILENAME
gtkterm_add_cmdline_options, 42	resource_file.h, 74
COLUMN_ACTION	CONF_ITEM_TERM_ROWS
macros.c, 62	resource_file.h, 74
COLUMN_SHORTCUT	CONF_ITEM_TERM_SCROLLBACK
macros.c, 62	resource_file.h, 74
columns	CONF_ITEM_TERM_SHOW_CURSOR
term_config_t, 30	resource_file.h, 74
CONF_ITEM_LAST	
	CONF_ITEM_TERM_TIMESTAMP
resource_file.h, 75	resource_file.h, 74
CONF_ITEM_LENGTH	CONF_ITEM_TERM_VISUAL_BELL
resource_file.h, 73	resource_file.h, 75
CONF_ITEM_SERIAL_BAUDRATE	CONF_ITEM_TERM_WAIT_CHAR
resource_file.h, 74	resource_file.h, 74
CONF_ITEM_SERIAL_BITS	CONF_ITEM_TERM_WAIT_DELAY
resource_file.h, 74	resource_file.h, 74
CONF_ITEM_SERIAL_DISABLE_PORT_LOCK	config
resource_file.h, 74	_GtkTerm, 10
CONF_ITEM_SERIAL_FLOW_CONTROL	config_file
resource_file.h, 74	GtkTermConfigurationPrivate, 20
CONF_ITEM_SERIAL_PARITY	CONFIGURATION_FILENAME
resource_file.h, 74	resource_file.c, 69
CONF_ITEM_SERIAL_PORT	convert_macros_to_string
resource_file.h, 74	macros.c, 63
CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX	macros.h, 65
resource_file.h, 74	convert_string_to_macros
CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX	macros.c, 63
resource_file.h, 74	macros.h, 66
CONF_ITEM_SERIAL_STOPBITS	create_buffer
resource_file.h, 74	buffer.c, 34
CONF_ITEM_TERM_BACKGROUND_ALPHA	buffer.h, 39
resource file.h, 75	create window
CONF ITEM TERM BACKGROUND BLUE	gtkterm_window.c, 54
resource file.h, 75	gtkterm_window.h, 56
CONF_ITEM_TERM_BACKGROUND_GREEN	crlfauto
resource file.h, 75	term_config_t, 30
CONF_ITEM_TERM_BACKGROUND_RED	tooog,
resource_file.h, 75	DEFAULT_BAUDRATE
CONF_ITEM_TERM_BLOCK_CURSOR	defaults.h, 44
resource_file.h, 74	DEFAULT BITS
CONF_ITEM_TERM_COLS	defaults.h, 44
resource_file.h, 74	DEFAULT_CHAR
CONF_ITEM_TERM_CRLF_AUTO	defaults.h, 44
	DEFAULT_DELAY
resource_file.h, 74	defaults.h, 45
CONF_ITEM_TERM_ECHO	DEFAULT_DELAY_RS485

defaults.h, 45	default_filename, 49
DEFAULT_ECHO	save_raw_file, 48
defaults.h, 45	send_raw_file, 48
default_filename	waiting_for_char, 49
files.c, 48	flow_control
files.h, 49	port_config_t, 28
DEFAULT_FLOW	font
defaults.h, 45	term_config_t, 30
DEFAULT_FONT	foreground_color
defaults.h, 45	term_config_t, 31
DEFAULT_PARITY	fullscreen
defaults.h, 45	_GtkTermWindow, 17
DEFAULT_PORT	
defaults.h, 45	g_config_group
DEFAULT_SCROLLBACK	_GtkTerm, 10
defaults.h, 46	g_port_group
DEFAULT_SECTION	_GtkTerm, 10
resource_file.h, 73	g_term_group
DEFAULT_STOPBITS	_GtkTerm, 11
defaults.h, 46	cmdline.h, 43
DEFAULT_VISUAL_BELL	get_shortcuts
defaults.h, 46	macros.c, 63
defaults.h, 43, 47	macros.h, 66
BUFFER_LENGTH, 44	GtkTerm
DEFAULT_BAUDRATE, 44	gtkterm.h, 52
DEFAULT_BITS, 44	gtkterm.c, 50
DEFAULT_CHAR, 44	gtkterm_signals, 50
DEFAULT_DELAY, 45	main, 50
DEFAULT_DELAY_RS485, 45	gtkterm.h, 51, 53
DEFAULT_ECHO, 45	GtkTerm, 52
DEFAULT_FLOW, 45	gtkterm_signals, 53
DEFAULT_FONT, 45	GTKTERM_TYPE_APP, 52
DEFAULT_PARITY, 45	LAST_GTKTERM_SIGNAL, 53
DEFAULT_PORT, 45	SIGNAL_GTKTERM_CONFIG_SERIAL, 53
DEFAULT SCROLLBACK, 46	SIGNAL_GTKTERM_CONFIG_TERMINAL, 53
DEFAULT_STOPBITS, 46	SIGNAL_GTKTERM_COPY_SECTION, 53
DEFAULT_VISUAL_BELL, 46	SIGNAL_GTKTERM_LOAD_CONFIG, 53
LINE_FEED, 46	SIGNAL_GTKTERM_PRINT_SECTION, 53
MAX_SECTION_LENGTH, 46	SIGNAL_GTKTERM_REMOVE_SECTION, 53
POLL DELAY, 46	SIGNAL_GTKTERM_SAVE_CONFIG, 53
RECEIVE_BUFFER, 46	SIGNAL_GTKTERM_TERMINAL_CHANGED, 53
TRANSMIT_BUFFER, 47	gtkterm_add_cmdline_options
delay	cmdline.c, 42
term_config_t, 30	cmdline.h, 42
delete_buffer	gtkterm_configuration_default_configuration
buffer.c, 35	resource_file.c, 69
buffer.h, 39	gtkterm_configuration_new
disable port lock	resource_file.h, 75
port_config_t, 28	gtkterm_configuration_validate
display	resource_file.c, 70
interface.h, 61	gtkterm_serial_port_get_string
	serial.c, 78
echo	serial.h, 80
term_config_t, 30	gtkterm_serial_port_new
<i>(</i> 1)	serial.c, 78
files.c, 47	serial.h, 80
default_filename, 48	gtkterm_serial_port_status
files.h, 48, 49	serial.c, 78
add_input, 48	serial.h, 80

gtkterm_signals	show_message, 58
gtkterm.c, 50	timestamp_on, 58
gtkterm.h, 53	virt_col_pos, 59
gtkterm_terminal_new	interface.h, 59, 61
terminal.c, 82	ASCII_VIEW, 59
terminal.h, 84	display, 61
GTKTERM_TYPE_APP	HEXADECIMAL_VIEW, 60
gtkterm.h, 52	MSG_ERR, 60
GTKTERM TYPE CONFIGURATION	MSG_WRN, 60
resource_file.h, 73	show_message, 60
GTKTERM_TYPE_GTKTERM_WINDOW	Text, 61
gtkterm_window.h, 56	ion, o
GTKTERM_TYPE_SERIAL_PORT	key_file
serial.h, 79	GtkTermConfigurationPrivate, 21
GTKTERM_TYPE_TERMINAL	
terminal.h, 84	LAST_GTKTERM_SIGNAL
gtkterm window.c, 54	gtkterm.h, 53
create window, 54	LINE_FEED
	defaults.h, 46
set_window_title, 55	,
gtkterm_window.h, 55, 57	macro count
create_window, 56	macros.c, 63
GTKTERM_TYPE_GTKTERM_WINDOW, 56	macros.h, 66
GtkTermWindow, 56	macro t, 25
GtkTermConfiguration	action, 26
resource_file.h, 74	closure, 26
GtkTermConfigurationItems	shortcut, 26
resource_file.c, 71	macros
resource_file.h, 76	GtkTermTerminalPrivate, 24
GtkTermConfigurationPrivate, 20	macros.c, 64
config_file, 20	macros.h, 67
key_file, 21	macros.c, 61
GtkTermSerialPort	COLUMN_ACTION, 62
serial.h, 79	COLUMN SHORTCUT, 62
GtkTermSerialPortPrivate, 21	convert_macros_to_string, 63
port_conf, 22	
serial_port_fd, 22	convert_string_to_macros, 63
termios_save, 22	get_shortcuts, 63
GtkTermTerminalPrivate, 23	macro_count, 63
app, 23	macros, 64
macros, 24	nr_of_macros, 64
main_window, 24	NUM_COLUMNS, 62
port_conf, 24	remove_shortcuts, 64
section, 24	macros.h, 65, 67
serial_port, 24	add_shortcuts, 65
term_conf, 24	convert_macros_to_string, 65
view mode, 25	convert_string_to_macros, 66
GtkTermWindow	get_shortcuts, 66
gtkterm_window.h, 56	macro_count, 66
gattorni_midomin, oo	macros, 67
height	remove_shortcuts, 66
GtkTermWindow, 17	main
HEXADECIMAL_VIEW	gtkterm.c, 50
interface.h, 60	main_window
,	GtkTermTerminalPrivate, 24
infobar	MAX_SECTION_LENGTH
_GtkTermWindow, 17	buffer.c, 34
insert_timestamp	defaults.h, 46
buffer.c, 35	maximized
interface.c, 57	_GtkTermWindow, 17

menubutton	PROP_SECTION
_GtkTermWindow, 18	terminal.c, 82
message	put_chars
_GtkTermWindow, 18	buffer.c, 35
MSG_ERR	buffer.h, 39
interface.h, 60	
MSG_WRN	README_source.md, 33
interface.h, 60	RECEIVE_BUFFER
	defaults.h, 46
N_PROPS	remove_shortcuts
serial.c, 78	macros.c, 64
terminal.c, 82	macros.h, 66
nr_of_macros	resource_file.c, 68
macros.c, 64	BUFFER_LENGTH, 69
NUM_COLUMNS	check_keyfile, 69
macros.c, 62	CONFIGURATION_FILENAME, 69
	gtkterm_configuration_default_configuration, 69
on_set_config_options	gtkterm_configuration_validate, 70
resource_file.c, 71	GtkTermConfigurationItems, 71
resource_file.h, 75	on set config options, 71
overlapped	resource_file.h, 72, 76
buffer.c, 37	CONF ITEM LAST, 75
5411011.0, 67	CONF_ITEM_LENGTH, 73
parent class	CONF ITEM SERIAL BAUDRATE, 74
GtkTermConfigurationClass, 12	CONF ITEM SERIAL BITS, 74
_GtkTermSerialPortClass, 14	
parent_instance	CONF_ITEM_SERIAL_DISABLE_PORT_LOCK,
_GtkTerm, 11	74
_GtkTermConfiguration, 12	CONF_ITEM_SERIAL_FLOW_CONTROL, 74
_GtkTermSerialPort, 13	CONF_ITEM_SERIAL_PARITY, 74
	CONF_ITEM_SERIAL_PORT, 74
_GtkTermWindow, 18	CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX,
parity	74
port_config_t, 28 POLL DELAY	CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX,
_	74
defaults.h, 46	CONF_ITEM_SERIAL_STOPBITS, 74
port	CONF_ITEM_TERM_BACKGROUND_ALPHA, 75
port_config_t, 28	CONF_ITEM_TERM_BACKGROUND_BLUE, 75
port_conf	CONF_ITEM_TERM_BACKGROUND_GREEN,
GtkTermSerialPortPrivate, 22	75
GtkTermTerminalPrivate, 24	CONF_ITEM_TERM_BACKGROUND_RED, 75
port_config_t, 27	CONF_ITEM_TERM_BLOCK_CURSOR, 74
baudrate, 27	CONF_ITEM_TERM_COLS, 74
bits, 27	CONF_ITEM_TERM_CRLF_AUTO, 74
disable_port_lock, 28	CONF_ITEM_TERM_ECHO, 74
flow_control, 28	CONF_ITEM_TERM_FONT, 74
parity, 28	CONF_ITEM_TERM_FOREGROUND_ALPHA, 75
port, 28	CONF_ITEM_TERM_FOREGROUND_BLUE, 75
rs485_rts_time_after_transmit, 28	CONF ITEM TERM FOREGROUND GREEN,
rs485_rts_time_before_transmit, 28	75
stopbits, 28	CONF_ITEM_TERM_FOREGROUND_RED, 75
PROP_0	CONF_ITEM_TERM_MACROS, 74
serial.c, 78	CONF_ITEM_TERM_RAW_FILENAME, 74
terminal.c, 82	CONF_ITEM_TERM_ROWS, 74
PROP_GTKTERM_APP	CONF_ITEM_TERM_SCROLLBACK, 74
terminal.c, 82	CONF_ITEM_TERM_SHOW_CURSOR, 74
PROP_MAIN_WINDOW	CONF_ITEM_TERM_TIMESTAMP, 74
terminal.c, 82	CONF_ITEM_TERM_TIMESTAMP, 74 CONF_ITEM_TERM_VISUAL_BELL, 75
PROP_PORT_CONFIG	
serial.c, 78	CONF_ITEM_TERM_WAIT_DELAY_74
33114110, 70	CONF_ITEM_TERM_WAIT_DELAY, 74

DEFAULT_SECTION, 73	gtkterm.h, 53
gtkterm_configuration_new, 75	SIGNAL_GTKTERM_CONFIG_TERMINAL
GTKTERM_TYPE_CONFIGURATION, 73	gtkterm.h, 53
GtkTermConfiguration, 74	SIGNAL_GTKTERM_COPY_SECTION
GtkTermConfigurationItems, 76	gtkterm.h, 53
on_set_config_options, 75	SIGNAL_GTKTERM_LOAD_CONFIG
rows	gtkterm.h, 53
term_config_t, 31	SIGNAL_GTKTERM_PRINT_SECTION
rs485_rts_time_after_transmit	gtkterm.h, 53
port_config_t, 28	SIGNAL_GTKTERM_REMOVE_SECTION
rs485_rts_time_before_transmit	gtkterm.h, 53
port_config_t, 28	SIGNAL_GTKTERM_SAVE_CONFIG
(I)-	gtkterm.h, 53
save_raw_file	SIGNAL_GTKTERM_TERMINAL_CHANGED
files.h, 48	gtkterm.h, 53
scrollback	status_config
term_config_t, 31	_GtkTermWindow, 18
scrolled_window	status_config_message
_GtkTermWindow, 18	_GtkTermWindow, 19
search_bar	status_message
_GtkTermWindow, 18	_GtkTermWindow, 19
section	status_serial_signal
_GtkTerm, 11	_GtkTermWindow, 19
GtkTermTerminalPrivate, 24	statusbox
send_raw_file	_GtkTermWindow, 19
files.h, 48	stopbits
serial.c, 77	port_config_t, 28
gtkterm_serial_port_get_string, 78	torm conf
gtkterm_serial_port_new, 78	term_conf
gtkterm_serial_port_status, 78	GtkTermTerminalPrivate, 24
N_PROPS, 78 PROP 0, 78	term_config_t, 29
- '	background_color, 30
PROP_PORT_CONFIG, 78	block_cursor, 30
serial.h, 79, 81	char_queue, 30 columns, 30
gtkterm_serial_port_get_string, 80 gtkterm_serial_port_new, 80	crlfauto, 30
gtkterm_serial_port_status, 80	delay, 30
GTKTERM_TYPE_SERIAL_PORT, 79	-
GtkTermSerialPort, 79	echo, 30
serial_port	font, 30 foreground_color, 31
GtkTermTerminalPrivate, 24	rows, 31
	scrollback, 31
serial_port_fd GtkTermSerialPortPrivate, 22	show cursor, 31
set clear func	timestamp, 31
buffer.c, 35	visual_bell, 31
buffer.h, 39	terminal.c, 81
set_display_func	gtkterm_terminal_new, 82
buffer.c, 35	N PROPS, 82
buffer.h, 39	PROP 0, 82
set window title	PROP GTKTERM APP, 82
gtkterm_window.c, 55	PROP MAIN WINDOW, 82
shortcut	PROP SECTION, 82
macro_t, 26	terminal.h, 83, 85
show_cursor	gtkterm_terminal_new, 84
term_config_t, 31	GTKTERM_TYPE_TERMINAL, 84
show_message	terminal_window
interface.c, 58	_GtkTermWindow, 19
interface.h, 60	termios_save
SIGNAL_GTKTERM_CONFIG_SERIAL	GtkTermSerialPortPrivate, 22
	Same of the first of the state

```
Text
    interface.h, 61
timestamp
    term_config_t, 31
timestamp_on
    buffer.c, 37
    interface.c, 58
TIMESTAMP_SIZE
    buffer.c, 34
toolmenu
     _GtkTermWindow, 19
TRANSMIT_BUFFER
    defaults.h, 47
unset_clear_func
    buffer.c, 35
    buffer.h, 39
unset_display_func
    buffer.c, 36
    buffer.h, 40
view mode
    GtkTermTerminalPrivate, 25
virt_col_pos
    buffer.c, 37
    interface.c, 59
visual_bell
    term_config_t, 31
vte_class
     _GtkTermTerminalClass, 15
vte_object
    _GtkTermTerminal, 14
waiting_for_char
    files.h, 49
width
     _GtkTermWindow, 20
write_buffer
    buffer.c, 36
    buffer.h, 40
write_buffer_with_func
    buffer.c, 36
    buffer.h, 40
write func
    buffer.c, 37
```