GTKTerm

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1 GTKTerm: The source code architecture		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 functions	 	2
1.2.2 GtkTermWindow	 	2
1.2.2.1 Members	 	2
1.2.2.2 Signals	 	2
1.2.2.3 Main functions	 	2
1.2.3 GtkTermTerminal	 	2
1.2.3.1 Members	 	2
1.2.3.2 Signals	 	2
1.2.3.3 Main functions	 	2
1.2.4 GtkTermConfiguration	 	2
1.2.4.1 Members	 	2
1.2.4.2 Signals	 	2
1.2.4.3 Main functions	 	2
1.2.5 GtkTermSerialPort	 	2
1.2.5.1 Members	 	2
1.2.5.2 Signals	 	2
1.2.5.3 Main functions	 	2
1.3 Links	 	2
O Todo List		_
2 Todo List		5
3 Class Index		7
3.1 Class List	 	7
4 File Index		9
4.1 File List	 	9
5 Class Documentation		11
5.1 _GtkTerm Struct Reference	 	11
5.1.1 Detailed Description		12
5.1.2 Member Data Documentation		12
5.1.2.1 action_group	 	12
5.1.2.2 config		12
5.1.2.3 g_config_group		12
5.1.2.4 g_port_group		13
5.1.2.5 g_term_group		13
5.1.2.6 parent_instance		13
5.1.2.7 section		13

5.2 _GtkTermConfiguration Struct Reference	13
5.2.1 Member Data Documentation	14
5.2.1.1 parent_instance	14
5.3 _GtkTermConfigurationClass Struct Reference	14
5.3.1 Member Data Documentation	14
5.3.1.1 parent_class	14
5.4 _GtkTermSerialPort Struct Reference	15
5.4.1 Member Data Documentation	15
5.4.1.1 parent_instance	15
5.5 _GtkTermSerialPortClass Struct Reference	15
5.5.1 Member Data Documentation	16
5.5.1.1 parent_class	16
5.6 _GtkTermTerminal Struct Reference	16
5.6.1 Member Data Documentation	16
5.6.1.1 vte_object	17
5.7 _GtkTermTerminalClass Struct Reference	17
5.7.1 Member Data Documentation	17
5.7.1.1 vte_class	17
5.8 _GtkTermWindow Struct Reference	18
5.8.1 Detailed Description	19
5.8.2 Member Data Documentation	19
5.8.2.1 action_group	19
5.8.2.2 fullscreen	19
5.8.2.3 height	19
5.8.2.4 infobar	20
5.8.2.5 maximized	20
5.8.2.6 menubutton	20
5.8.2.7 message	20
5.8.2.8 parent_instance	20
5.8.2.9 scrolled_window	20
5.8.2.10 search_bar	21
5.8.2.11 status_config	21
5.8.2.12 status_config_message	21
5.8.2.13 status_message	21
5.8.2.14 status_serial_signal	21
5.8.2.15 statusbox	21
5.8.2.16 terminal_window	21
5.8.2.17 toolmenu	22
5.8.2.18 width	22
5.9 GtkTermConfigurationPrivate Struct Reference	22
5.9.1 Member Data Documentation	22
5.9.1.1 config file	23

5.9.1.2 key_file	. 23
5.9.1.3 last_status	. 23
5.10 GtkTermSerialPortPrivate Struct Reference	. 24
5.10.1 Member Data Documentation	. 24
5.10.1.1 port_conf	. 24
5.10.1.2 serial_port_fd	. 25
5.10.1.3 termios_save	. 25
5.11 GtkTermTerminalPrivate Struct Reference	. 25
5.11.1 Member Data Documentation	. 26
5.11.1.1 app	. 26
5.11.1.2 macros	. 26
5.11.1.3 main_window	. 27
5.11.1.4 port_conf	. 27
5.11.1.5 section	. 27
5.11.1.6 serial_port	. 27
5.11.1.7 term_conf	. 27
5.11.1.8 view_mode	. 28
5.12 macro_t Struct Reference	. 28
5.12.1 Detailed Description	. 28
5.12.2 Member Data Documentation	. 29
5.12.2.1 action	. 29
5.12.2.2 closure	. 29
5.12.2.3 shortcut	. 29
5.13 port_config_t Struct Reference	. 29
5.13.1 Member Data Documentation	. 30
5.13.1.1 baudrate	. 30
5.13.1.2 bits	. 30
5.13.1.3 disable_port_lock	. 30
5.13.1.4 flow_control	. 30
5.13.1.5 parity	. 31
5.13.1.6 port	. 31
5.13.1.7 rs485_rts_time_after_transmit	. 31
5.13.1.8 rs485_rts_time_before_transmit	. 31
5.13.1.9 stopbits	. 31
5.14 term_config_t Struct Reference	. 32
5.14.1 Member Data Documentation	. 33
5.14.1.1 background_color	. 33
5.14.1.2 block_cursor	. 33
5.14.1.3 char_queue	. 33
5.14.1.4 columns	. 34
5.14.1.5 crlfauto	. 34
5.14.1.6 delay	. 34

	5.14.1.7 echo	34
	5.14.1.8 font	34
	5.14.1.9 foreground_color	34
	5.14.1.10 rows	35
	5.14.1.11 scrollback	35
	5.14.1.12 show_cursor	35
	5.14.1.13 timestamp	35
	5.14.1.14 visual_bell	35
6	File Documentation	37
	6.1 README_source.md File Reference	37
	6.2 cmdline.c File Reference	37
	6.2.1 Function Documentation	37
	6.2.1.1 gtkterm_add_cmdline_options()	38
	6.3 cmdline.h File Reference	38
	6.3.1 Function Documentation	38
	6.3.1.1 gtkterm_add_cmdline_options()	38
	6.3.2 Variable Documentation	38
	6.3.2.1 g_term_group	39
	6.4 cmdline.h	39
	6.5 defaults.h File Reference	39
	6.5.1 Macro Definition Documentation	40
	6.5.1.1 ASCII_VIEW	40
	6.5.1.2 BUFFER_LENGTH	40
	6.5.1.3 CONF_ITEM_LENGTH	40
	6.5.1.4 CONFIGURATION_FILENAME	41
	6.5.1.5 DEFAULT_BAUDRATE	41
	6.5.1.6 DEFAULT_BITS	41
	6.5.1.7 DEFAULT_CHAR	41
	6.5.1.8 DEFAULT_DELAY	41
	6.5.1.9 DEFAULT_DELAY_RS485	41
	6.5.1.10 DEFAULT_ECHO	41
	6.5.1.11 DEFAULT_FLOW	42
	6.5.1.12 DEFAULT_FONT	42
	6.5.1.13 DEFAULT_PARITY	42
	6.5.1.14 DEFAULT_PORT	42
	6.5.1.15 DEFAULT_SCROLLBACK	42
	6.5.1.16 DEFAULT_SECTION	42
	6.5.1.17 DEFAULT_STOPBITS	42
	6.5.1.18 DEFAULT_VISUAL_BELL	43
	6.5.1.19 HEXADECIMAL_VIEW	43
	6.5.1.20 LINE FEED	43

6.5.1.21 MAX_SECTION_LENGTH	43
6.5.1.22 POLL_DELAY	43
6.5.1.23 RECEIVE_BUFFER	43
6.5.1.24 TRANSMIT_BUFFER	43
6.6 defaults.h	44
6.7 gtkterm.c File Reference	44
6.7.1 Function Documentation	45
6.7.1.1 main()	45
6.7.2 Variable Documentation	45
6.7.2.1 gtkterm_signals	45
6.8 gtkterm.h File Reference	45
6.8.1 Macro Definition Documentation	46
6.8.1.1 GTKTERM_TYPE_APP	47
6.8.2 Typedef Documentation	47
6.8.2.1 GtkTerm	47
6.8.3 Enumeration Type Documentation	47
6.8.3.1 anonymous enum	47
6.8.4 Variable Documentation	47
6.8.4.1 gtkterm_signals	47
6.9 gtkterm.h	48
6.10 gtkterm_messages.c File Reference	48
6.11 gtkterm_window.c File Reference	48
6.11.1 Function Documentation	49
6.11.1.1 create_window()	49
6.11.1.2 gtkterm_show_infobar()	50
6.11.1.3 set_window_title()	50
6.12 gtkterm_window.h File Reference	50
6.12.1 Macro Definition Documentation	51
6.12.1.1 GTKTERM_TYPE_GTKTERM_WINDOW	51
6.12.2 Typedef Documentation	51
6.12.2.1 GtkTermWindow	51
6.12.3 Function Documentation	51
6.12.3.1 create_window()	52
6.12.3.2 gtkterm_show_infobar()	52
6.13 gtkterm_window.h	52
6.14 macros.c File Reference	53
6.14.1 Enumeration Type Documentation	53
6.14.1.1 anonymous enum	53
6.14.2 Function Documentation	54
6.14.2.1 convert_macros_to_string()	54
6.14.2.2 convert_string_to_macros()	54
6.14.2.3 get_shortcuts()	55

6.14.2.4 macro_count()
6.14.2.5 remove_shortcuts()
6.14.3 Variable Documentation
6.14.3.1 macros
6.14.3.2 nr_of_macros
6.15 macros.h File Reference
6.15.1 Function Documentation
6.15.1.1 add_shortcuts()
6.15.1.2 convert_macros_to_string()
6.15.1.3 convert_string_to_macros()
6.15.1.4 get_shortcuts()
6.15.1.5 macro_count()
6.15.1.6 remove_shortcuts()
6.15.2 Variable Documentation
6.15.2.1 macros
6.16 macros.h
6.17 resource_file.c File Reference
6.17.1 Function Documentation
6.17.1.1 check_keyfile()
6.17.1.2 gtkterm_configuration_default_configuration()
6.17.1.3 gtkterm_configuration_status()
6.17.1.4 gtkterm_configuration_validate()
6.17.1.5 on_set_config_options()
6.17.2 Variable Documentation
6.17.2.1 GtkTermConfigurationItems
6.18 resource_file.h File Reference
6.18.1 Macro Definition Documentation
6.18.1.1 GTKTERM_TYPE_CONFIGURATION
6.18.2 Typedef Documentation
6.18.2.1 GtkTermConfiguration
6.18.3 Enumeration Type Documentation
6.18.3.1 anonymous enum
6.18.3.2 GtkTermConfigStatus
6.18.4 Function Documentation
6.18.4.1 gtkterm_configuration_new()
6.18.4.2 gtkterm_configuration_status()
6.18.4.3 on_set_config_options()
6.18.5 Variable Documentation
6.18.5.1 GtkTermConfigurationItems
6.19 resource_file.h
6.20 serial.c File Reference
6.20.1 Enumeration Type Documentation

6.20.1.1 anonymous enum	72
6.20.2 Function Documentation	72
6.20.2.1 gtkterm_serial_port_get_string()	72
6.20.2.2 gtkterm_serial_port_new()	72
6.20.2.3 gtkterm_serial_port_status()	72
6.21 serial.h File Reference	73
6.21.1 Macro Definition Documentation	73
6.21.1.1 GTKTERM_TYPE_SERIAL_PORT	73
6.21.2 Typedef Documentation	73
6.21.2.1 GtkTermSerialPort	74
6.21.3 Function Documentation	74
6.21.3.1 gtkterm_serial_port_get_string()	74
6.21.3.2 gtkterm_serial_port_new()	74
6.21.3.3 gtkterm_serial_port_status()	74
6.22 serial.h	75
6.23 terminal.c File Reference	75
6.23.1 Enumeration Type Documentation	76
6.23.1.1 anonymous enum	76
6.23.2 Function Documentation	76
6.23.2.1 gtkterm_terminal_new()	77
6.24 terminal.h File Reference	77
6.24.1 Macro Definition Documentation	78
6.24.1.1 GTKTERM_TYPE_TERMINAL	78
6.24.2 Function Documentation	78
6.24.2.1 gtkterm_terminal_new()	78
6.25 terminal.h	79
4	0.4
dex	81

Index

Chapter 1

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:

1.3 Links 3

- https://docs.gtk.org/gobject/tutorial.html
- https://docs.gtk.org/gobject/concepts.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.

Chapter 2

Todo List

Member gtkterm_configuration_status (GtkTermConfiguration *)

: Add GError output somewhere...

Member GtkTermConfigurationItems [][CONF_ITEM_LENGTH]

Add the short option.

Member GtkTermTerminalPrivate::macros

convert macros -> object

Member term_config_t::char_queue

This is not possible, so remove?

6 Todo List

Chapter 3

Class Index

3.1 Class List

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

_GikTerm	
The main GtkTerm application class	11
_GtkTermConfiguration	13
_GtkTermConfigurationClass	14
_GtkTermSerialPort	15
_GtkTermSerialPortClass	15
_GtkTermTerminal	16
_GtkTermTerminalClass	17
_GtkTermWindow	
The main GtkTermWindow class	
GtkTermConfigurationPrivate	22
GtkTermSerialPortPrivate	24
GtkTermTerminalPrivate	25
macro_t	
Todo: Migrate to GObject	
port_config_t	
term_config_t	32

8 Class Index

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

cmdline.c	37
cmdline.h	38
defaults.h	39
gtkterm.c	44
gtkterm.h	45
gtkterm_messages.c	48
gtkterm_window.c	
gtkterm_window.h	
macros.c	
macros.h	
resource_file.c	
resource_file.h	
serial.c	
serial.h	
terminal.c	75
terminal h	77

10 File Index

Chapter 5

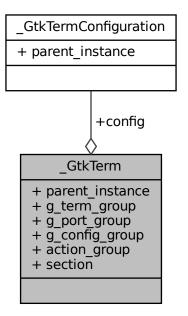
Class Documentation

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

```
GOptionGroup* _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
```

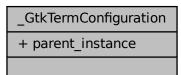
The section provided from the cli.

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

· gtkterm.h

5.2 _GtkTermConfiguration Struct Reference

Collaboration diagram for _GtkTermConfiguration:



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

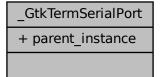
GObjectClass _GtkTermConfigurationClass::parent_class

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

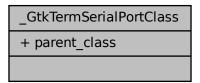
GObject _GtkTermSerialPort::parent_instance

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

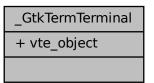
```
GObjectClass _GtkTermSerialPortClass::parent_class
```

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 object

5.6.1 Member Data Documentation

5.6.1.1 vte_object

VteTerminal _GtkTermTerminal::vte_object

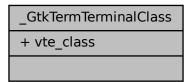
The actual terminal object

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.

Referenced by gtkterm_show_infobar().

5.8.2.5 maximized

bool _GtkTermWindow::maximized

5.8.2.6 menubutton

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

Toolbar.

5.8.2.7 message

GtkWidget* _GtkTermWindow::message

Message for the infobar.

Referenced by gtkterm_show_infobar().

5.8.2.8 parent_instance

GtkApplicationWindow _GtkTermWindow::parent_instance

5.8.2.9 scrolled_window

GtkScrolledWindow* _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
- + last status

Public Attributes

- GKeyFile * key_file The memory loaded keyfile
- GFile * config_file The config file
- · int last_status

Last status condition when operating configfiles

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

GKeyFile* GtkTermConfigurationPrivate::key_file

The memory loaded keyfile

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

5.9.1.3 last_status

 $\verb|int GtkTermConfigurationPrivate:: | last_status|\\$

Last status condition when operating configfiles

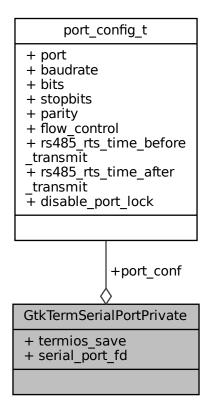
Referenced by gtkterm_configuration_status().

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

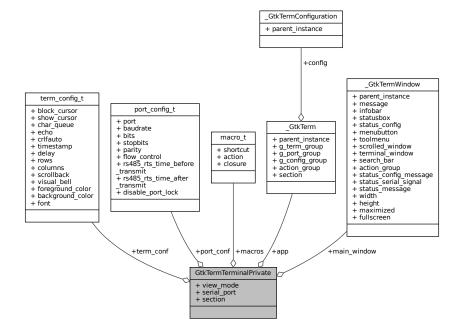
struct termios GtkTermSerialPortPrivate::termios_save

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

28 Class Documentation

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:

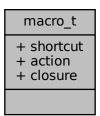
• terminal.c

5.12 macro_t Struct Reference

todo: Migrate to GObject

#include <macros.h>

Collaboration diagram for macro_t:



Public Attributes

• char * shortcut

Shortcut of the macro.

• char * action

Command to perform.

• GClosure * closure

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

30 Class Documentation

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().

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

int port_config_t::flow_control

5.13.1.5 parity

 $\verb"int port_config_t::parity"$

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

 $\verb"int port_config_t:: rs485_rts_time_before_transmit"$

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

32 Class Documentation

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

Show a block shape cursor

• char char_queue

Show cursor in window.

• bool echo

character in queue

· bool crlfauto

local echo

· bool timestamp

auto line feed

int delay

Show timestamp in output

• int rows

end of char delay: in ms

· int columns

Number of rows in terminal

· int scrollback

Number of cols in terminal

bool visual_bell

Number of scrollback lines

 GdkRGBA foreground_color Visual bell

• GdkRGBA background_color

Terminal Background color

• PangoFontDescription * font

Terminal Foreground color

5.14.1 Member Data Documentation

5.14.1.1 background_color

GdkRGBA term_config_t::background_color

Terminal 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

Show cursor in window.

Todo This is not possible, so remove?

34 Class Documentation

5.14.1.4 columns

int term_config_t::columns

Number of rows in terminal

5.14.1.5 crlfauto

bool term_config_t::crlfauto

local echo

5.14.1.6 delay

int term_config_t::delay

Show timestamp in output

5.14.1.7 echo

bool term_config_t::echo

character in queue

5.14.1.8 font

PangoFontDescription* term_config_t::font

Terminal Foreground color

5.14.1.9 foreground_color

GdkRGBA term_config_t::foreground_color

Visual bell

5.14.1.10 rows

int term_config_t::rows

end of char delay: in ms

5.14.1.11 scrollback

int term_config_t::scrollback

Number of cols in terminal

5.14.1.12 show_cursor

bool term_config_t::show_cursor

Show a block shape cursor

5.14.1.13 timestamp

 $\verb|bool term_config_t::timestamp|\\$

auto line feed

5.14.1.14 visual_bell

bool term_config_t::visual_bell

Number of scrollback lines

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

· terminal.h

36 Class Documentation

Chapter 6

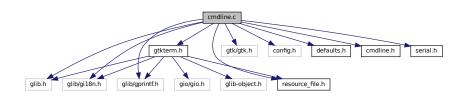
File Documentation

6.1 README_source.md File Reference

6.2 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)

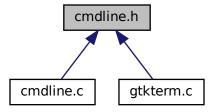
6.2.1 Function Documentation

6.2.1.1 gtkterm_add_cmdline_options()

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

6.3 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

6.3.1 Function Documentation

6.3.1.1 gtkterm_add_cmdline_options()

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

6.3.2 Variable Documentation

6.4 cmdline.h

6.3.2.1 g_term_group

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

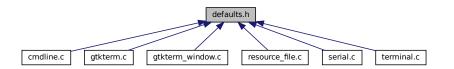
6.4 cmdline.h

Go to the documentation of this file.

```
2 /* cmdline.h
                 GTKTerm Software
                              (c) Julien Schmitt
8 /*
       Purpose
          Reads the command line
- Header file -
10 /*
12 /*
12 /*
13 /* ChangeLog
14 /* - 2.0: migrated to GTK4
15 /* - 0.98: file creation by Julien
                                                                                  ******/extern GOptionGroup
      *g_term_group;
1.8
19 #ifndef CMDLINE_H
20 #define CMDLINE_H
22 void gtkterm_add_cmdline_options (GtkTerm *app);
24 #endif // CMDLINE_H
```

6.5 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
- #define DEFAULT SECTION "default"

Default configuration filename.

• #define CONFIGURATION_FILENAME ".gtktermrc"

Name of the resource file

- #define CONF ITEM LENGTH 32
- #define ASCII_VIEW 0

Type of terminal view.

• #define HEXADECIMAL_VIEW 1

6.5.1 Macro Definition Documentation

6.5.1.1 ASCII_VIEW

#define ASCII_VIEW 0

Type of terminal view.

6.5.1.2 BUFFER_LENGTH

#define BUFFER_LENGTH 256

Generic defaults.

6.5.1.3 CONF_ITEM_LENGTH

#define CONF_ITEM_LENGTH 32

6.5.1.4 CONFIGURATION_FILENAME

#define CONFIGURATION_FILENAME ".gtktermrc"

Name of the resource file

6.5.1.5 DEFAULT_BAUDRATE

#define DEFAULT_BAUDRATE 115200

6.5.1.6 DEFAULT_BITS

#define DEFAULT_BITS 8

6.5.1.7 DEFAULT_CHAR

#define DEFAULT_CHAR -1

6.5.1.8 DEFAULT_DELAY

#define DEFAULT_DELAY 0

6.5.1.9 DEFAULT_DELAY_RS485

#define DEFAULT_DELAY_RS485 30

6.5.1.10 DEFAULT_ECHO

#define DEFAULT_ECHO "false"

6.5.1.11 DEFAULT_FLOW

#define DEFAULT_FLOW "none"

6.5.1.12 DEFAULT_FONT

#define DEFAULT_FONT "Monospace 12"

Default for VTE-terminal.

6.5.1.13 DEFAULT_PARITY

#define DEFAULT_PARITY "none"

6.5.1.14 DEFAULT_PORT

#define DEFAULT_PORT "/dev/ttyS0"

Default for serial ports.

6.5.1.15 DEFAULT_SCROLLBACK

#define DEFAULT_SCROLLBACK 10000

6.5.1.16 DEFAULT_SECTION

#define DEFAULT_SECTION "default"

Default configuration filename.

Default section if not specified

6.5.1.17 DEFAULT_STOPBITS

#define DEFAULT_STOPBITS 1

6.5.1.18 DEFAULT_VISUAL_BELL

#define DEFAULT_VISUAL_BELL "false"

6.5.1.19 HEXADECIMAL_VIEW

#define HEXADECIMAL_VIEW 1

6.5.1.20 LINE_FEED

#define LINE_FEED 0x0A

6.5.1.21 MAX_SECTION_LENGTH

#define MAX_SECTION_LENGTH 32

6.5.1.22 POLL_DELAY

#define POLL_DELAY 100

in ms (for control signals)

6.5.1.23 RECEIVE_BUFFER

#define RECEIVE_BUFFER 8192

6.5.1.24 TRANSMIT_BUFFER

#define TRANSMIT_BUFFER 4096

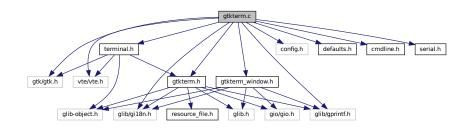
6.6 defaults.h

Go to the documentation of this file.

```
1 //! Default for VTE-terminal 2 #define DEFAULT_FONT
                                         "Monospace 12"
3 #define DEFAULT_SCROLLBACK
                                         10000
4 #define DEFAULT_DELAY
                                         0
5 #define DEFAULT_CHAR
6 #define DEFAULT_DELAY_RS485
                                         3.0
                                         "false"
7 #define DEFAULT_ECHO
                                         "false"
8 #define DEFAULT_VISUAL_BELL
10 //! Default for serial ports
11 #define DEFAULT_PORT
                                          "/dev/ttyS0"
12 #define DEFAULT_BAUDRATE
                                          115200
13 #define DEFAULT_PARITY
                                          "none"
14 #define DEFAULT_BITS
                                          8
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
                                                             /**< in ms (for control signals)</pre>
23 //! Generic defaults
24 #define BUFFER_LENGTH
25 #define MAX_SECTION_LENGTH
2.6
27 //! Default configuration filename
28 #define DEFAULT_SECTION "default"
29 #define CONFIGURATION_FILENAME ".gtktermrc"
                                                             /**< Default section if not specified
                                                             /**< Name of the resource file
30 #define CONF_ITEM_LENGTH
32 //! Type of terminal view
33 #define ASCII_VIEW
34 #define HEXADECIMAL_VIEW
```

6.7 gtkterm.c File Reference

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

6.7.1 Function Documentation

6.7.1.1 main()

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

References GTKTERM_TYPE_APP.

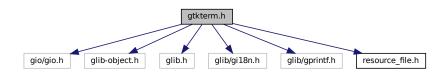
6.7.2 Variable Documentation

6.7.2.1 gtkterm_signals

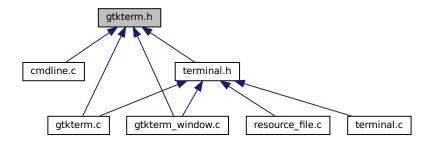
```
unsigned int gtkterm_signals[LAST_GTKTERM_SIGNAL]
```

6.8 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()

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 []

6.8.1 Macro Definition Documentation

6.8.1.1 GTKTERM_TYPE_APP

#define GTKTERM_TYPE_APP gtkterm_get_type()

6.8.2 Typedef Documentation

6.8.2.1 GtkTerm

 $\verb|typedef| | \verb|struct| | _ GtkTerm| | GtkTerm| |$

6.8.3 Enumeration Type Documentation

6.8.3.1 anonymous enum

anonymous enum

Enumerator

SIGNAL_GTKTERM_LOAD_CONFIG	
SIGNAL_GTKTERM_SAVE_CONFIG	
SIGNAL_GTKTERM_REMOVE_SECTION	
SIGNAL_GTKTERM_PRINT_SECTION	
SIGNAL_GTKTERM_COPY_SECTION	
SIGNAL_GTKTERM_CONFIG_TERMINAL	
SIGNAL_GTKTERM_CONFIG_SERIAL	
SIGNAL_GTKTERM_TERMINAL_CHANGED	
LAST_GTKTERM_SIGNAL	

6.8.4 Variable Documentation

6.8.4.1 gtkterm_signals

unsigned int gtkterm_signals[] [extern]

6.9 gtkterm.h

Go to the documentation of this file.

```
#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>
11 #include "resource_file.h"
13 enum {
       SIGNAL_GTKTERM_LOAD_CONFIG,
14
       SIGNAL_GTKTERM_SAVE_CONFIG,
15
        SIGNAL_GTKTERM_REMOVE_SECTION,
16
       SIGNAL_GTKTERM_PRINT_SECTION,
        SIGNAL_GTKTERM_COPY_SECTION,
19
        SIGNAL_GTKTERM_CONFIG_TERMINAL
       SIGNAL_GTKTERM_CONFIG_SERIAL,
SIGNAL_GTKTERM_TERMINAL_CHANGED,
20
21
       LAST_GTKTERM_SIGNAL
23 };
25 extern unsigned int gtkterm_signals[];
2.6
27 G_BEGIN_DECLS
28
29 //! @brief The main GtkTerm application class.
30 //! All application specific variables are defined here.
31 struct _GtkTerm {
33
    GtkApplication parent_instance;
34
    GOptionGroup *g_term_group;
GOptionGroup *g_port_group;
35
36
37
     GOptionGroup *g_config_group;
38
                                                //!< App action group
39
    GActionGroup *action_group;
40
41
    GtkTermConfiguration *config;
                                                //!< The Key file with the configurations
     char *section;
                                                //!< The section provided from the cli.
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 G_END_DECLS
51 #endif // GTKTERM_H
```

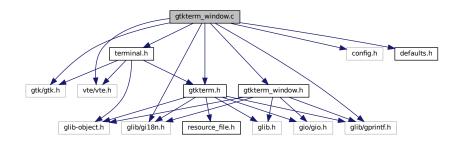
6.10 gtkterm_messages.c File Reference

6.11 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 "defaults.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)
- void gtkterm_show_infobar (GtkTermWindow *window, char *message, int message_type)

6.11.1 Function Documentation

6.11.1.1 create_window()

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:



6.11.1.2 gtkterm_show_infobar()

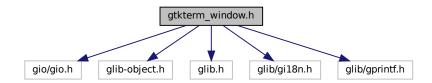
References GtkTermWindow::infobar, and GtkTermWindow::message.

6.11.1.3 set_window_title()

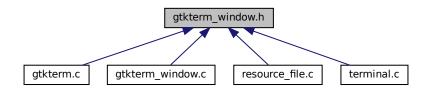
6.12 gtkterm_window.h File Reference

```
#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 *)
- void gtkterm show infobar (GtkTermWindow *, char *, int)

6.12.1 Macro Definition Documentation

6.12.1.1 GTKTERM_TYPE_GTKTERM_WINDOW

#define GTKTERM_TYPE_GTKTERM_WINDOW gtkterm_window_get_type()

6.12.2 Typedef Documentation

6.12.2.1 GtkTermWindow

typedef struct _GtkTermWindow GtkTermWindow

6.12.3 Function Documentation

6.12.3.1 create_window()

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:



6.12.3.2 gtkterm_show_infobar()

References _GtkTermWindow::infobar, and _GtkTermWindow::message.

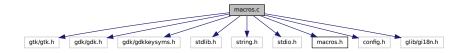
6.13 gtkterm_window.h

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/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 void gtkterm_show_infobar (GtkTermWindow *, char *, int);
20
21 #endif // GTKTERM_WINDOW_H
```

6.14 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 "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

6.14.1 Enumeration Type Documentation

6.14.1.1 anonymous enum

anonymous enum

Todo : Migrate to GObject

Enumerator

COLUMN_SHORTCUT	
COLUMN_ACTION	
NUM_COLUMNS	

6.14.2 Function Documentation

6.14.2.1 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.

6.14.2.2 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:



6.14.2.3 get_shortcuts()

References macros.

6.14.2.4 macro_count()

```
int macro_count ( )
```

References nr_of_macros.

6.14.2.5 remove_shortcuts()

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

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:



6.14.3 Variable Documentation

6.14.3.1 macros

```
macro_t* macros = NULL
```

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

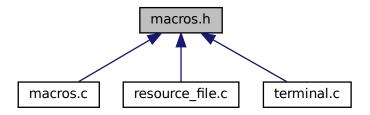
6.14.3.2 nr_of_macros

```
int nr_of_macros = 0
```

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

6.15 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

6.15.1 Function Documentation

6.15.1.1 add_shortcuts()

```
void add_shortcuts (
     void )
```

6.15.1.2 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.

6.15.1.3 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:



6.15.1.4 get_shortcuts()

6.15.1.5 macro_count()

```
int macro_count ( )
```

References nr_of_macros.

6.15.1.6 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:



6.15.2 Variable Documentation

6.15.2.1 macros

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

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

6.16 macros.h 59

6.16 macros.h

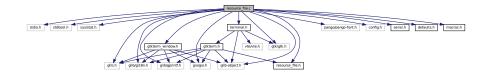
Go to the documentation of this file.

```
2 * macros.h
          GTKTerm Software
                   (c) Julien Schmitt
9 * \brief Purpose
       Functions for the management of the macros
10 *
         - Header file -
14
15 #ifndef MACROS_H_
16 #define MACROS H
18 //! todo: Migrate to GObject
20 //! Define macro structure type
21 typedef struct
     //!< Shortcut of the macro
25
26 }
27 macro_t;
28
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 ();
38
39 extern macro_t *macros;
40
41 #endif
```

6.17 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_window.h"
#include "serial.h"
#include "defaults.h"
#include "terminal.h"
#include "resource_file.h"
#include "macros.h"
```

Include dependency graph for resource_file.c:



Classes

- struct GtkTermConfigurationPrivate
- struct GtkTermConfiguration
- struct _GtkTermConfigurationClass

Functions

• GtkTermConfigStatus gtkterm_configuration_status (GtkTermConfiguration *self)

Return the latest status condiation for the file operation.

- void gtkterm_configuration_default_configuration (GtkTermConfiguration *self, char *section)
 - Create a new < default> configuration.
- $\bullet \ \ GtkTermConfigStatus\ gtkterm_configuration_validate\ (GtkTermConfiguration\ *self,\ char\ *section)$

validate the configuration, given by the section.

• GtkTermConfigStatus check_keyfile (GtkTermConfiguration *self, char *section)

Check if the keyfile is loaded into memory.

 GtkTermConfigStatus 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]
 Configuration options.

6.17.1 Function Documentation

6.17.1.1 check_keyfile()

Check if the keyfile is loaded into memory.

Loads the keyfile and checks if the section we want to acces, exists.

Parameters

self	The configuration for which the get the status for.
section	The section we want the configuration to read from

Returns

: The status of this operation

Load keyfile if it is nog loaded yet

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

References GtkTermConfigurationPrivate::key_file.

6.17.1.2 gtkterm_configuration_default_configuration()

Create a new <default> configuration.

Load the port configuration from < section > into the term config. If it does not exists it creates one from the defaults

Parameters

self	The configuration class.
data	The section we want to get the config from.

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_CURSC CONF_ITEM_TERM_COLS, CONF_ITEM_TERM_COLS, CONF_ITEM_TERM_FOREGROUND_BLUE, 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_SCHOR, DEFAULT_VISUAL_BELL, GtkTermConfigurationItems, and GtkTermConfigurationPrivate::key_file.

6.17.1.3 gtkterm_configuration_status()

```
\begin{tabular}{ll} $\tt GtkTermConfigStatus gtkterm\_configuration\_status ( & \tt GtkTermConfiguration * self ) \end{tabular}
```

Return the latest status condiation for the file operation.

Clear the last status when the status is retrieved.. Once we retrieve the status it is lost.

Parameters

```
self The configuration for which the get the status for.
```

Returns

The latest status.

References CONF_ERROR_SUCCESS, and GtkTermConfigurationPrivate::last_status.

6.17.1.4 gtkterm configuration validate()

validate the configuration, given by the section.

If not it creates and new default one and save it to disk. When it finds an invalid config option it returns with an error for which item the configuration check fails.

Parameters

self	The configuration class.
section	The section we want to validate.

Returns

The result of the operation

References CONF_ERROR_INVALID_BAUDRATE, CONF_ERROR_INVALID_BITS, CONF_ERROR_INVALID_DELAY, CONF_ERROR_INVALID_STOPBITS, CONF_ERROR_SUCCESS, CONF_ITEM_SERIAL_BAUDRATE, CONF_ITEM_SERIAL_BIT CONF_ITEM_SERIAL_STOPBITS, CONF_ITEM_TERM_FONT, CONF_ITEM_TERM_WAIT_DELAY, DEFAULT_FONT, GtkTermConfigurationItems, and GtkTermConfigurationPrivate::key_file.

Referenced by on_set_config_options().

Here is the caller graph for this function:



6.17.1.5 on set config options()

Set the config option in the keyfile.

All option which are given from the CLI are stored into the keyfile with <section> Options are not saved to disk.

Parameters

name	The configoption we want to set.
value	The value for this option.
data	The section we want to get the config from.
error	Error (not used).

Returns

The result of the operation

Point to the third charater ('-' in front of the cli option)

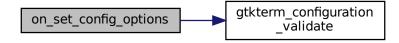
Search index for the option we want to set

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_ERROR_SUCCESS, CONF_ITEM_LAST, 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_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:



6.17.2 Variable Documentation

6.17.2.1 GtkTermConfigurationItems

const char GtkTermConfigurationItems[][CONF_ITEM_LENGTH]

Configuration options.

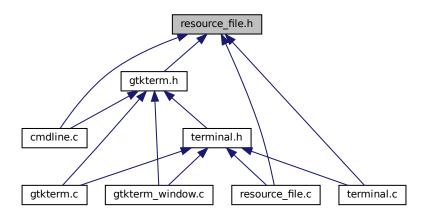
Used configuration options to hold consistency between load/save functions Also used as long-option when configuring by CLI

Todo Add the short option.

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

6.18 resource_file.h File Reference

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



Macros

• #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_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_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROUND_FOREGROU
   , CONF_ITEM_TERM_BACKGROUND RED,
   CONF_ITEM_TERM_BACKGROUND_GREEN, CONF_ITEM_TERM_BACKGROUND_BLUE, CONF_ITEM_TERM_BACKG
   , CONF ITEM LAST }
         Enum items for configuration.
enum GtkTermConfigStatus {
   CONF_ERROR_SUCCESS, CONF_ERROR_FILE_CONFIG_LOAD, CONF_ERROR_FILE_NOT_FOUND
   , CONF ERROR FILE CREATED,
   CONF ERROR FILE SAVED, CONF ERROR FILE NOT SAVED, CONF ERROR NO KEYFILE LOADED
   , CONF ERROR SECTION REMOVED,
   CONF ERROR SECTION NOT REMOVED, CONF ERROR SECTION UNKNOWN, CONF ERROR INVALID BAUDRAT
   , CONF_ERROR_INVALID BITS ,
   CONF_ERROR_INVALID_STOPBITS, CONF_ERROR_INVALID_DELAY, CONF_ERROR_LAST}
         Enum config_error id.
```

Functions

- GtkTermConfiguration * gtkterm_configuration_new (void)
- $\bullet \ \ GtkTermConfigStatus\ on_set_config_options\ (const\ char\ *,\ const\ char\ *,\ gpointer,\ GError\ **)$

Set the config option in the keyfile.

GtkTermConfigStatus gtkterm_configuration_status (GtkTermConfiguration *)

Return the latest status condiation for the file operation.

Variables

const char GtkTermConfigurationItems [][CONF_ITEM_LENGTH]
 Configuration options.

6.18.1 Macro Definition Documentation

6.18.1.1 GTKTERM_TYPE_CONFIGURATION

#define GTKTERM_TYPE_CONFIGURATION gtkterm_configuration_get_type ()

6.18.2 Typedef Documentation

6.18.2.1 GtkTermConfiguration

typedef struct _GtkTermConfiguration GtkTermConfiguration

6.18.3 Enumeration Type Documentation

6.18.3.1 anonymous enum

anonymous enum

Enum items for configuration.

Define all configuration items which are used in the resource file. it is an index to ConfigurationItem. Configuration item names.

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	

Enumerator

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.

6.18.3.2 GtkTermConfigStatus

enum GtkTermConfigStatus

Enum config_error id.

Many of the gtk_configuration functions return an error id.

Enumerator

	_
CONF_ERROR_SUCCESS	
CONF_ERROR_FILE_CONFIG_LOAD	
CONF_ERROR_FILE_NOT_FOUND	
CONF_ERROR_FILE_CREATED	
CONF_ERROR_FILE_SAVED	
CONF_ERROR_FILE_NOT_SAVED	
CONF_ERROR_NO_KEYFILE_LOADED	
CONF_ERROR_SECTION_REMOVED	
CONF_ERROR_SECTION_NOT_REMOVED	
CONF_ERROR_SECTION_UNKNOWN	
CONF_ERROR_INVALID_BAUDRATE	
CONF_ERROR_INVALID_BITS	
CONF_ERROR_INVALID_STOPBITS	
CONF_ERROR_INVALID_DELAY	
CONF_ERROR_LAST	

6.18.4 Function Documentation

6.18.4.1 gtkterm_configuration_new()

6.18.4.2 gtkterm_configuration_status()

Return the latest status condiation for the file operation.

Todo: Add GError output somewhere...

Clear the last status when the status is retrieved.. Once we retrieve the status it is lost.

Parameters

```
self The configuration for which the get the status for.
```

Returns

The latest status.

References CONF_ERROR_SUCCESS, and GtkTermConfigurationPrivate::last_status.

6.18.4.3 on_set_config_options()

Set the config option in the keyfile.

All option which are given from the CLI are stored into the keyfile with < section > Options are not saved to disk.

Parameters

name	The configoption we want to set.
value	The value for this option.
data	The section we want to get the config from.
error	Error (not used).

Returns

The result of the operation

Point to the third charater ('-' in front of the cli option)

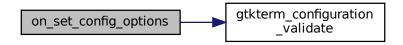
Search index for the option we want to set

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_ERROR_SUCCESS, CONF_ITEM_LAST, 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_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:



6.18.5 Variable Documentation

6.18.5.1 GtkTermConfigurationItems

 $\verb|const| char GtkTermConfigurationItems[][CONF_ITEM_LENGTH]| [extern] \\$

Configuration options.

Used configuration options to hold consistency between load/save functions Also used as long-option when configuring by CLI

Todo Add the short option.

Referenced by gtkterm configuration default configuration(), gtkterm configuration validate(), and on set config options().

6.19 resource file.h

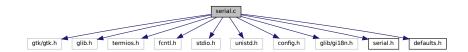
Go to the documentation of this file.

```
2 * resource file.h
              GTKTerm Software
                          (c) Julien Schmitt
8 *
      \brief Purpose
10 *
         Load and save configuration file
          - Header file -
14
15 #ifndef RESOURCE FILE H
16 #define RESOURCE_FILE_H_
18 /**
19 \star @brief Enum items for configuration
20 *
21 * Define all configuration items which are used
22 * in the resource file. it is an index to ConfigurationItem.
23 * Configuration item names.
25 enum {
2.6
           CONF_ITEM_SERIAL_PORT,
           CONF_ITEM_SERIAL_BAUDRATE,
2.7
            CONF_ITEM_SERIAL_BITS,
28
            CONF_ITEM_SERIAL_STOPBITS,
            CONF_ITEM_SERIAL_PARITY,
31
            CONF_ITEM_SERIAL_FLOW_CONTROL,
32
            CONF_ITEM_TERM_WAIT_DELAY,
            CONF_ITEM_TERM_WAIT_CHAR,
33
            CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX,
34
            CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX,
35
            CONF_ITEM_TERM_MACROS,
37
            CONF_ITEM_TERM_RAW_FILENAME,
           CONF_ITEM_TERM_ECHO,
CONF_ITEM_TERM_CRLF_AUTO,
CONF_ITEM_SERIAL_DISABLE_PORT_LOCK,
38
39
40
            CONF_ITEM_TERM_FONT,
41
            CONF_ITEM_TERM_TIMESTAMP,
            CONF_ITEM_TERM_BLOCK_CURSOR,
44
            CONF_ITEM_TERM_SHOW_CURSOR,
            CONF_ITEM_TERM_ROWS,
4.5
           CONF_ITEM_TERM_COLS,
CONF_ITEM_TERM_SCROLLBACK,
46
            CONF_ITEM_TERM_VISUAL_BELL,
49
            CONF_ITEM_TERM_FOREGROUND_RED,
50
            CONF_ITEM_TERM_FOREGROUND_GREEN,
           CONF_ITEM_TERM_FOREGROUND_BLUE,
CONF_ITEM_TERM_FOREGROUND_ALPHA,
CONF_ITEM_TERM_BACKGROUND_RED,
51
52
53
            CONF_ITEM_TERM_BACKGROUND_GREEN,
55
            CONF_ITEM_TERM_BACKGROUND_BLUE,
56
            CONF_ITEM_TERM_BACKGROUND_ALPHA,
            CONF_ITEM_LAST
                                                      /**< Checking as last item in the list.
58 };
59
61 * @brief Enum config_error id.
63 \star Many of the gtk_configuration functions return
64 * an error id.
65 */
66 typedef enum {
       CONF_ERROR_SUCCESS,
68
       CONF_ERROR_FILE_CONFIG_LOAD,
69
       CONF_ERROR_FILE_NOT_FOUND,
       CONF_ERROR_FILE_CREATED,
CONF_ERROR_FILE_SAVED,
70
71
       CONF_ERROR_FILE_NOT_SAVED,
72
       CONF_ERROR_NO_KEYFILE_LOADED,
73
74
       CONF_ERROR_SECTION_REMOVED,
75
       CONF_ERROR_SECTION_NOT_REMOVED,
       CONF_ERROR_SECTION_UNKNOWN, CONF_ERROR_INVALID_BAUDRATE,
76
77
       CONF_ERROR_INVALID_BITS,
CONF_ERROR_INVALID_STOPBITS,
78
       CONF_ERROR_INVALID_DELAY,
       CONF_ERROR_LAST
82
```

6.20 serial.c File Reference 71

6.20 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:
```



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)

6.20.1 Enumeration Type Documentation

6.20.1.1 anonymous enum

anonymous enum

Enumerator

PROP_0	
PROP_PORT_CONFIG	
N_PROPS	

6.20.2 Function Documentation

6.20.2.1 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.

6.20.2.2 gtkterm_serial_port_new()

References GTKTERM_TYPE_SERIAL_PORT.

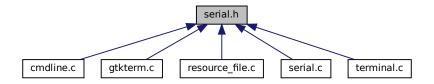
6.20.2.3 gtkterm serial port status()

References GtkTermSerialPortPrivate::serial_port_fd.

6.21 serial.h File Reference 73

6.21 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 *)

6.21.1 Macro Definition Documentation

6.21.1.1 GTKTERM_TYPE_SERIAL_PORT

#define GTKTERM_TYPE_SERIAL_PORT gtkterm_serial_port_get_type ()

6.21.2 Typedef Documentation

6.21.2.1 GtkTermSerialPort

typedef typedefG_BEGIN_DECLS struct _GtkTermSerialPort GtkTermSerialPort

6.21.3 Function Documentation

6.21.3.1 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.

6.21.3.2 gtkterm_serial_port_new()

References GTKTERM_TYPE_SERIAL_PORT.

6.21.3.3 gtkterm_serial_port_status()

References GtkTermSerialPortPrivate::serial_port_fd.

6.22 serial.h 75

6.22 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;
int flow_control;
                                      // 0 : None, 1 : Odd, 2 : Even
// 0 : None, 1 : Xon/Xoff, 2 : RTS/CTS, 3 : RS485halfduplex
25
2.6
     int rs485_rts_time_before_transmit;
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
```

6.23 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 <gango/pango-font.h>
#include "defaults.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)

6.23.1 Enumeration Type Documentation

6.23.1.1 anonymous enum

anonymous enum

Enumerator

PROP_0	
PROP_SECTION	
PROP_GTKTERM_APP	
PROP_MAIN_WINDOW	
N_PROPS	

6.23.2 Function Documentation

6.23.2.1 gtkterm_terminal_new()

References GTKTERM_TYPE_TERMINAL.

Referenced by create_window().

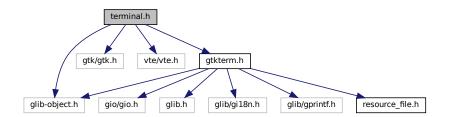
Here is the caller graph for this function:



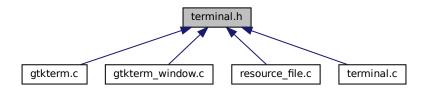
6.24 terminal.h File Reference

```
#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 *)

6.24.1 Macro Definition Documentation

6.24.1.1 GTKTERM_TYPE_TERMINAL

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

6.24.2 Function Documentation

6.24.2.1 gtkterm_terminal_new()

References GTKTERM_TYPE_TERMINAL.

Referenced by create_window().

Here is the caller graph for this function:



6.25 terminal.h

6.25 terminal.h

Go to the documentation of this file.

```
2 /* terminal.h
          GTKTerm Software
                     (c) Julien Schmitt
7 /* -----
8 /*
9 /* Purpose
10 /* Handles all VTE in/output to/from serial port 11 /* - Header file -
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 {
       bool block_cursor; /** Show a block shape cursor */
bool show_cursor; /** Show cursor in window. \todo TI
char char_queue; /** character in queue */
bool echo; /** local echo */
bool crlfauto; /** auto line feed */
int delay; /** Show timestamp in output *
int delay; /** end of char delay: in ms */
int rows; /** Number of rows in terminal */
int scrollback; /** Number of scrollback lines */
bool visual_bell; /** Visual bell */
GdkRGBA foreground_color; /** Terminal Background color */
25
                                                /** Show cursor in window. 
 \todo This is not possible, so remove? */
2.6
2.7
28
       bool echo;
bool crlfauto;
29
31
32
33
34
35
       GdkRGBA foreground_color; /** Terminal Background color GdkRGBA background_color; /** Terminal Foreground color
36
37
       PangoFontDescription *font; /** Terminal Font
38
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, 11	defaults.h, 40
action_group, 12	
config, 12	background_color
g_config_group, 12	term_config_t, 33
g_port_group, 12	baudrate
g_term_group, 13	port_config_t, 30
parent_instance, 13	bits
section, 13	port_config_t, 30
_GtkTermConfiguration, 13	block_cursor
parent_instance, 14	term_config_t, 33
_GtkTermConfigurationClass, 14	BUFFER_LENGTH
parent_class, 14	defaults.h, 40
_GtkTermSerialPort, 15	
parent_instance, 15	char_queue
_GtkTermSerialPortClass, 15	term_config_t, 33
parent_class, 16	check_keyfile
GtkTermTerminal, 16	resource_file.c, 60
vte_object, 16	closure
_GtkTermTerminalClass, 17	macro_t, 29
vte_class, 17	cmdline.c, 37
GtkTermWindow, 18	gtkterm_add_cmdline_options, 37
action_group, 19	cmdline.h, 38, 39
fullscreen, 19	g_term_group, 38
height, 19	gtkterm_add_cmdline_options, 38
infobar, 19	COLUMN_ACTION
maximized, 20	macros.c, 54
menubutton, 20	COLUMN_SHORTCUT
message, 20	macros.c, 54
parent_instance, 20	columns
scrolled_window, 20	term_config_t, 33
search_bar, 20	CONF_ERROR_FILE_CONFIG_LOAD
status_config, 21	resource_file.h, 67
status_config_message, 21	CONF_ERROR_FILE_CREATED
status_message, 21	resource_file.h, 67
status serial signal, 21	CONF_ERROR_FILE_NOT_FOUND
statusbox, 21	resource_file.h, 67
terminal_window, 21	CONF_ERROR_FILE_NOT_SAVED
toolmenu, 21	resource_file.h, 67
width, 22	CONF_ERROR_FILE_SAVED
Width, ZZ	resource_file.h, 67
action	CONF_ERROR_INVALID_BAUDRATE
macro t, 29	resource_file.h, 67
action_group	CONF_ERROR_INVALID_BITS
_GtkTerm, 12	resource_file.h, 67
_GtkTermWindow, 19	CONF_ERROR_INVALID_DELAY
add_shortcuts	resource_file.h, 67
macros.h, 56	CONF_ERROR_INVALID_STOPBITS
app	resource_file.h, 67
GtkTermTerminalPrivate, 26	CONF_ERROR_LAST
ASCII VIEW	resource_file.h, 67
_	

CONF_ERROR_NO_KEYFILE_LOADED	CONF_ITEM_TERM_MACROS
resource_file.h, 67	resource_file.h, 66
CONF_ERROR_SECTION_NOT_REMOVED	CONF_ITEM_TERM_RAW_FILENAME
resource_file.h, 67	resource_file.h, 66
CONF_ERROR_SECTION_REMOVED	CONF_ITEM_TERM_ROWS
resource_file.h, 67	resource_file.h, 66
CONF_ERROR_SECTION_UNKNOWN	CONF_ITEM_TERM_SCROLLBACK
resource_file.h, 67	resource_file.h, 66
CONF_ERROR_SUCCESS	CONF_ITEM_TERM_SHOW_CURSOR
resource_file.h, 67	resource_file.h, 66
CONF_ITEM_LAST	CONF_ITEM_TERM_TIMESTAMP
resource_file.h, 67	resource_file.h, 66
CONF_ITEM_LENGTH	CONF_ITEM_TERM_VISUAL_BELL
defaults.h, 40	resource_file.h, 66
CONF_ITEM_SERIAL_BAUDRATE	CONF_ITEM_TERM_WAIT_CHAR
resource_file.h, 66	resource_file.h, 66
CONF ITEM SERIAL BITS	CONF_ITEM_TERM_WAIT_DELAY
resource_file.h, 66	resource_file.h, 66
CONF_ITEM_SERIAL_DISABLE_PORT_LOCK	config
resource file.h, 66	GtkTerm, 12
CONF_ITEM_SERIAL_FLOW_CONTROL	config_file
resource_file.h, 66	GtkTermConfigurationPrivate, 22
CONF_ITEM_SERIAL_PARITY	CONFIGURATION FILENAME
resource_file.h, 66	defaults.h, 40
CONF_ITEM_SERIAL_PORT	
	convert_macros_to_string
resource_file.h, 66	macros.c, 54
CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX	macros.h, 57
resource_file.h, 66	convert_string_to_macros
CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX	
resource_file.h, 66	macros.h, 57
CONF_ITEM_SERIAL_STOPBITS	create_window
resource_file.h, 66	gtkterm_window.c, 49
CONF_ITEM_TERM_BACKGROUND_ALPHA	gtkterm_window.h, 51
resource_file.h, 67	crlfauto
CONF_ITEM_TERM_BACKGROUND_BLUE	term_config_t, 34
resource_file.h, 67	
CONF_ITEM_TERM_BACKGROUND_GREEN	DEFAULT_BAUDRATE
resource_file.h, 67	defaults.h, 41
CONF_ITEM_TERM_BACKGROUND_RED	DEFAULT_BITS
resource_file.h, 67	defaults.h, 41
CONF_ITEM_TERM_BLOCK_CURSOR	DEFAULT_CHAR
resource_file.h, 66	defaults.h, 41
CONF_ITEM_TERM_COLS	DEFAULT_DELAY
resource_file.h, 66	defaults.h, 41
CONF_ITEM_TERM_CRLF_AUTO	DEFAULT_DELAY_RS485
resource_file.h, 66	defaults.h, 41
CONF_ITEM_TERM_ECHO	DEFAULT_ECHO
resource_file.h, 66	defaults.h, 41
CONF_ITEM_TERM_FONT	DEFAULT FLOW
resource_file.h, 66	defaults.h, 41
CONF_ITEM_TERM_FOREGROUND_ALPHA	DEFAULT FONT
	defaults.h, 42
resource_file.h, 67	DEFAULT PARITY
CONF_ITEM_TERM_FOREGROUND_BLUE	defaults.h, 42
resource_file.h, 66	DEFAULT PORT
CONF_ITEM_TERM_FOREGROUND_GREEN	defaults.h, 42
resource_file.h, 66	DEFAULT_SCROLLBACK
CONF_ITEM_TERM_FOREGROUND_RED	defaults.h, 42
resource_file.h, 66	DEFAULT_SECTION
	DELINOLI OLOTION

defaults.h, 42	gtkterm.c, 44
DEFAULT STOPBITS	gtkterm_signals, 45
defaults.h, 42	main, 45
DEFAULT_VISUAL_BELL	gtkterm.h, 45, 48
defaults.h, 42	GtkTerm, 47
defaults.h, 39, 44	gtkterm_signals, 47
ASCII_VIEW, 40	GTKTERM_TYPE_APP, 46
BUFFER_LENGTH, 40	LAST_GTKTERM_SIGNAL, 47
CONFIDENTION FILENAME 40	SIGNAL_GTKTERM_CONFIG_SERIAL, 47
CONFIGURATION_FILENAME, 40	SIGNAL_GTKTERM_CONFIG_TERMINAL, 47
DEFAULT_BAUDRATE, 41	SIGNAL_GTKTERM_COPY_SECTION, 47
DEFAULT_BITS, 41	SIGNAL_GTKTERM_LOAD_CONFIG, 47
DEFAULT_CHAR, 41	SIGNAL_GTKTERM_PRINT_SECTION, 47
DEFAULT_DELAY, 41	SIGNAL_GTKTERM_REMOVE_SECTION, 47
DEFAULT_DELAY_RS485, 41	SIGNAL_GTKTERM_SAVE_CONFIG, 47
DEFAULT_ECHO, 41	SIGNAL_GTKTERM_TERMINAL_CHANGED, 47
DEFAULT_FLOW, 41	gtkterm_add_cmdline_options
DEFAULT_FONT, 42	cmdline.c, 37
DEFAULT_PARITY, 42	cmdline.h, 38
DEFAULT_PORT, 42	gtkterm_configuration_default_configuration
DEFAULT_SCROLLBACK, 42	resource_file.c, 61
DEFAULT_SECTION, 42	gtkterm_configuration_new
DEFAULT_STOPBITS, 42	resource_file.h, 67
DEFAULT_VISUAL_BELL, 42	gtkterm_configuration_status
HEXADECIMAL_VIEW, 43	resource_file.c, 61
LINE_FEED, 43	resource_file.h, 67
MAX_SECTION_LENGTH, 43	gtkterm_configuration_validate
POLL_DELAY, 43	resource_file.c, 62
RECEIVE_BUFFER, 43	gtkterm_messages.c, 48
TRANSMIT_BUFFER, 43	gtkterm_serial_port_get_string
delay	serial.c, 72
term_config_t, 34	serial.h, 74
disable_port_lock	gtkterm_serial_port_new
port_config_t, 30	serial.c, 72
port_comig_t, 30	serial.h, 74
echo	gtkterm_serial_port_status
term_config_t, 34	serial.c, 72
torm_comig_t, or	
flow_control	serial.h, 74
port_config_t, 30	gtkterm_show_infobar
font	gtkterm_window.c, 49
term_config_t, 34	gtkterm_window.h, 52
foreground_color	gtkterm_signals
term_config_t, 34	gtkterm.c, 45
fullscreen	gtkterm.h, 47
_GtkTermWindow, 19	gtkterm_terminal_new
_dikterniwindow, 15	terminal.c, 76
g_config_group	terminal.h, 78
_GtkTerm, 12	GTKTERM_TYPE_APP
g port group	gtkterm.h, 46
_GtkTerm, 12	GTKTERM_TYPE_CONFIGURATION
g_term_group	resource_file.h, 65
_GtkTerm, 13	GTKTERM_TYPE_GTKTERM_WINDOW
cmdline.h, 38	gtkterm_window.h, 51
	GTKTERM_TYPE_SERIAL_PORT
get_shortcuts	serial.h, 73
macros.c, 54	GTKTERM_TYPE_TERMINAL
macros.h, 57	terminal.h, 78
GtkTerm	gtkterm_window.c, 48
gtkterm.h, 47	·

create_window, 49	action, 29
gtkterm_show_infobar, 49	closure, 29
set_window_title, 50	shortcut, 29
gtkterm_window.h, 50, 52	macros
create_window, 51	GtkTermTerminalPrivate, 26
gtkterm_show_infobar, 52	macros.c, 55
GTKTERM_TYPE_GTKTERM_WINDOW, 51	macros.h, 58
GtkTermWindow, 51	macros.c, 53
GtkTermConfigStatus	COLUMN_ACTION, 54
resource_file.h, 67	COLUMN_SHORTCUT, 54
GtkTermConfiguration	convert macros to string, 54
resource_file.h, 66	convert_string_to_macros, 54
GtkTermConfigurationItems	get_shortcuts, 54
resource_file.c, 64	macro_count, 55
resource_file.h, 69	macros, 55
GtkTermConfigurationPrivate, 22	nr_of_macros, 55
config_file, 22	NUM_COLUMNS, 54
key_file, 23	remove_shortcuts, 55
•	macros.h, 56, 59
last_status, 23	
GtkTermSerialPort	add_shortcuts, 56
serial.h, 73	convert_macros_to_string, 57
GtkTermSerialPortPrivate, 24	convert_string_to_macros, 57
port_conf, 24	get_shortcuts, 57
serial_port_fd, 24	macro_count, 57
termios_save, 25	macros, 58
GtkTermTerminalPrivate, 25	remove_shortcuts, 58
app, 26	main
macros, 26	gtkterm.c, 45
main_window, 26	main_window
port_conf, 27	GtkTermTerminalPrivate, 26
section, 27	MAX_SECTION_LENGTH
serial_port, 27	defaults.h, 43
term conf, 27	maximized
view mode, 27	GtkTermWindow, 20
GtkTermWindow	menubutton
gtkterm window.h, 51	_GtkTermWindow, 20
gatom_moonin, or	message
height	_GtkTermWindow, 20
_GtkTermWindow, 19	_dikTeIIIIWIIIdow, 20
HEXADECIMAL VIEW	N PROPS
defaults.h, 43	serial.c, 72
doladio.ii, 40	terminal.c, 76
infobar	nr_of_macros
_GtkTermWindow, 19	
_ductomittindow, 10	macros.c, 55
key_file	NUM_COLUMNS
GtkTermConfigurationPrivate, 23	macros.c, 54
dictormooninguration rivate, 20	an act confinentians
LAST_GTKTERM_SIGNAL	on_set_config_options
gtkterm.h, 47	resource_file.c, 63
last_status	resource_file.h, 68
GtkTermConfigurationPrivate, 23	navant alasa
LINE_FEED	parent_class
	_GtkTermConfigurationClass, 14
defaults.h, 43	_GtkTermSerialPortClass, 16
macro count	parent_instance
macro_count	_GtkTerm, 13
macros.c, 55	_GtkTermConfiguration, 14
macros.h, 57	_GtkTermSerialPort, 15
macro_t, 28	_GtkTermWindow, 20

parity	CONF_ERROR_SUCCESS, 67
port_config_t, 30	CONF_ITEM_LAST, 67
POLL_DELAY	CONF_ITEM_SERIAL_BAUDRATE, 66
defaults.h, 43	CONF_ITEM_SERIAL_BITS, 66
port	CONF_ITEM_SERIAL_DISABLE_PORT_LOCK,
port_config_t, 31	66
port_conf	CONF_ITEM_SERIAL_FLOW_CONTROL, 66
GtkTermSerialPortPrivate, 24	CONF_ITEM_SERIAL_PARITY, 66
GtkTermTerminalPrivate, 27	CONF_ITEM_SERIAL_PORT, 66
port_config_t, 29	CONF_ITEM_SERIAL_RS485_RTS_TIME_AFTER_TX,
baudrate, 30	66
bits, 30	CONF_ITEM_SERIAL_RS485_RTS_TIME_BEFORE_TX,
disable_port_lock, 30	66
flow_control, 30	CONF_ITEM_SERIAL_STOPBITS, 66
parity, 30	CONF_ITEM_TERM_BACKGROUND_ALPHA, 67
port, 31	CONF_ITEM_TERM_BACKGROUND_BLUE, 67
rs485_rts_time_after_transmit, 31	CONF_ITEM_TERM_BACKGROUND_GREEN,
rs485_rts_time_before_transmit, 31	67
stopbits, 31	CONF_ITEM_TERM_BACKGROUND_RED, 67
PROP_0	CONF_ITEM_TERM_BLOCK_CURSOR, 66
serial.c, 72	CONF_ITEM_TERM_COLS, 66
terminal.c, 76	CONF_ITEM_TERM_CRLF_AUTO, 66
PROP_GTKTERM_APP	CONF_ITEM_TERM_ECHO, 66
terminal.c, 76	CONF_ITEM_TERM_FONT, 66
PROP_MAIN_WINDOW	CONF_ITEM_TERM_FOREGROUND_ALPHA, 67
terminal.c, 76	CONF_ITEM_TERM_FOREGROUND_BLUE, 66
PROP_PORT_CONFIG	CONF_ITEM_TERM_FOREGROUND_GREEN,
serial.c, 72	66
PROP_SECTION	CONF_ITEM_TERM_FOREGROUND_RED, 66
terminal.c, 76	CONF_ITEM_TERM_MACROS, 66
DEADME	CONF_ITEM_TERM_RAW_FILENAME, 66
README_source.md, 37	CONF_ITEM_TERM_ROWS, 66
RECEIVE_BUFFER	CONF_ITEM_TERM_SCROLLBACK, 66
defaults.h, 43	CONF_ITEM_TERM_SHOW_CURSOR, 66
remove_shortcuts	CONF_ITEM_TERM_TIMESTAMP, 66
macros.c, 55	CONF_ITEM_TERM_VISUAL_BELL, 66
macros.h, 58	CONF_ITEM_TERM_WAIT_CHAR, 66
resource_file.c, 59	CONF_ITEM_TERM_WAIT_DELAY, 66
check_keyfile, 60	gtkterm_configuration_new, 67
gtkterm_configuration_default_configuration, 61	gtkterm_configuration_status, 67
gtkterm_configuration_status, 61	GTKTERM_TYPE_CONFIGURATION, 65
gtkterm_configuration_validate, 62	GtkTermConfigStatus, 67
GtkTermConfigurationItems, 64	GtkTermConfiguration, 66
on_set_config_options, 63	GtkTermConfigurationItems, 69
resource_file.h, 64, 70	on_set_config_options, 68
CONF_ERROR_FILE_CONFIG_LOAD, 67	rows
CONF_ERROR_FILE_CREATED, 67	term_config_t, 34
CONF_ERROR_FILE_NOT_FOUND, 67	rs485_rts_time_after_transmit
CONF_ERROR_FILE_NOT_SAVED, 67	port_config_t, 31
CONF_ERROR_FILE_SAVED, 67	rs485_rts_time_before_transmit
CONF_ERROR_INVALID_BITS_67	port_config_t, 31
CONF_ERROR_INVALID_BITS, 67 CONF_ERROR_INVALID_DELAY, 67	corallback
	scrollback
CONF_ERROR_INVALID_STOPBITS, 67	term_config_t, 35
CONF_ERROR_LAST, 67	scrolled_window
CONF_ERROR_NO_KEYFILE_LOADED, 67	_GtkTermWindow, 20
CONF_ERROR_SECTION_NOT_REMOVED, 67	search_bar GtkTormWindow 20
CONF_ERROR_SECTION_REMOVED, 67	_GtkTermWindow, 20
CONF_ERROR_SECTION_UNKNOWN, 67	section

_GtkTerm, 13	char_queue, 33
GtkTermTerminalPrivate, 27	columns, 33
serial.c, 71	crlfauto, 34
gtkterm_serial_port_get_string, 72	delay, 34
gtkterm serial port new, 72	echo, 34
gtkterm_serial_port_status, 72	font, 34
N PROPS, 72	foreground_color, 34
PROP_0, 72	rows, 34
PROP_PORT_CONFIG, 72	scrollback, 35
serial.h, 73, 75	show_cursor, 35
gtkterm_serial_port_get_string, 74	timestamp, 35
	•
gtkterm_serial_port_new, 74	visual_bell, 35
gtkterm_serial_port_status, 74	terminal.c, 75
GTKTERM_TYPE_SERIAL_PORT, 73	gtkterm_terminal_new, 76
GtkTermSerialPort, 73	N_PROPS, 76
serial_port	PROP_0, 76
GtkTermTerminalPrivate, 27	PROP_GTKTERM_APP, 76
serial_port_fd	PROP_MAIN_WINDOW, 76
GtkTermSerialPortPrivate, 24	PROP_SECTION, 76
set_window_title	terminal.h, 77, 79
gtkterm_window.c, 50	gtkterm_terminal_new, 78
shortcut	GTKTERM_TYPE_TERMINAL, 78
macro_t, 29	terminal_window
show cursor	_GtkTermWindow, 21
term_config_t, 35	termios_save
SIGNAL_GTKTERM_CONFIG_SERIAL	GtkTermSerialPortPrivate, 25
gtkterm.h, 47	timestamp
SIGNAL_GTKTERM_CONFIG_TERMINAL	term_config_t, 35
gtkterm.h, 47	
	toolmenu
SIGNAL_GTKTERM_COPY_SECTION	_GtkTermWindow, 21
gtkterm.h, 47	TRANSMIT_BUFFER
SIGNAL_GTKTERM_LOAD_CONFIG	defaults.h, 43
gtkterm.h, 47	view mede
SIGNAL_GTKTERM_PRINT_SECTION	view_mode
gtkterm.h, 47	GtkTermTerminalPrivate, 27
SIGNAL_GTKTERM_REMOVE_SECTION	visual_bell
gtkterm.h, 47	term_config_t, 35
SIGNAL_GTKTERM_SAVE_CONFIG	vte_class
gtkterm.h, 47	_GtkTermTerminalClass, 17
SIGNAL_GTKTERM_TERMINAL_CHANGED	vte_object
gtkterm.h, 47	_GtkTermTerminal, 16
status_config	
_GtkTermWindow, 21	width
status_config_message	_GtkTermWindow, 22
GtkTermWindow, 21	
status_message	
_GtkTermWindow, 21	
status serial signal	
_GtkTermWindow, 21	
dikTeriffwilidow, 21	
_GtkTermWindow, 21	
stopbits	
port_config_t, 31	
term conf	
GtkTermTerminalPrivate, 27	
term_config_t, 32	
background_color, 33	
block_cursor, 33	