

Register daemon

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Chapter 1

Class Index

1.1 Class List

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

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Chapter 2

File Index

2.1 File List

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Chapter 3

Class Documentation

3.1 Cqllex Class Reference

Query lexer class.

Public Types

- enum **lex_type** {
 READ, WRITE, DESC, ATTR,
 NUMBER, LIST, SEMICOLON, END,
 ERR, READERR }

Public Member Functions

- [Cqllex](#) (int fd, int timeout=0)
 Constructor.
- [~Cqllex](#) ()
 Destructor.
- lex_type [get_lex](#) ()
 Automat to recognition individually lexems from input characters.
- int [get_lex_num](#) ()
 Function to get number from lexem if lexem type is NUMBER.
- void [get_c](#) ()
 Function to get next character from file descriptor Also use to initialise lexer.

3.1.1 Detailed Description

Query lexer class.

Lexer for input clien queries.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 Cqllex::Cqllex (int fd, int timeout = 0) [inline]

Constructor.

Parameters

in	<i>fd</i>	Client file descriptor
in	<i>timeout</i>	Set timeout during reading, 0 means without timeout

3.1.3 Member Function Documentation

3.1.3.1 `lex_type Cqlx::get_lex ()` `[inline]`

Automat to recognition individually lexems from input characters.

Return values

<i>lex_type</i>	Lexem.
-----------------	--------

3.1.3.2 `int Cqlx::get_lex_num ()` `[inline]`

Function to get number from lexem if lexem type is NUMBER.

Return values

<i>int</i>	number.
------------	---------

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

- [src/query_lex.cpp](#)

3.2 Cregarray Class Reference

Public Member Functions

- [Cregarray \(\)](#)
Constructor.
- [~Cregarray \(\)](#)
Destructor.
- `int add (const int reg, const char *desc, const int a, const int b, const int c, const int d, const int flag)`
Add register method.
- `int write (int reg, int value)`
Write value to the register.
- `int read (int reg)`
Read value from the register.
- `const char * desc (int reg)`
Read register description.
- `int a (int reg)`
Read register 'a' parameter.
- `int b (int reg)`
Read register 'b' parameter.
- `int c (int reg)`
Read register 'c' parameter.
- `int d (int reg)`
Read register 'd' parameter.
- `int flag (int reg)`
Read register flag parameter.
- `char * list ()`
Read list of available registers.

3.2.1 Member Function Documentation

3.2.1.1 `int Cregarray::a (int reg)`

Read register 'a' parameter.

Parameters

<i>in</i>	<i>reg</i>	Register number
-----------	------------	-----------------

Return values

<i>int</i>	Register parameter value.
------------	---------------------------

3.2.1.2 `int Cregarray::add (const int reg, const char * desc, const int a, const int b, const int c, const int d, const int flag)`

Add register method.

Parameters

<i>in</i>	<i>reg</i>	Register number
<i>in</i>	<i>desc</i>	Register description
<i>in</i>	<i>a</i>	Parameter a
<i>in</i>	<i>b</i>	Parameter b
<i>in</i>	<i>c</i>	Parameter c
<i>in</i>	<i>d</i>	Parameter d
<i>in</i>	<i>flag</i>	Register RO RW flag

Return values

<i>0</i>	Successfully.
<i>1</i>	With error, duplicit name.

3.2.1.3 `int Cregarray::b (int reg)`

Read register 'b' parameter.

Parameters

<i>in</i>	<i>reg</i>	Register number
-----------	------------	-----------------

Return values

<i>int</i>	Register parameter value.
------------	---------------------------

3.2.1.4 `int Cregarray::c (int reg)`

Read register 'c' parameter.

Parameters

<i>in</i>	<i>reg</i>	Register number
-----------	------------	-----------------

Return values

<i>int</i>	Register parameter value.
------------	---------------------------

3.2.1.5 `int Cregarray::d (int reg)`

Read register 'd' parameter.

Parameters

<i>in</i>	<i>reg</i>	Register number
-----------	------------	-----------------

Return values

<i>int</i>	Register parameter value.
------------	---------------------------

3.2.1.6 `const char * Cregarray::desc (int reg)`

Read register description.

Parameters

<i>in</i>	<i>reg</i>	Register number
-----------	------------	-----------------

Return values

<i>char*</i>	Register description.
--------------	-----------------------

3.2.1.7 `int Cregarray::flag (int reg)`

Read register flag parameter.

Parameters

<i>in</i>	<i>reg</i>	Register number
-----------	------------	-----------------

Return values

<i>0</i>	Register is RW
<i>1</i>	Register is RO

3.2.1.8 `char * Cregarray::list ()`

Read list of available registers.

return register number separated with semicolon

Return values

<i>char*</i>	register list
--------------	---------------

3.2.1.9 `int Cregarray::read (int reg)`

Read value from the register.

Parameters

<i>in</i>	<i>reg</i>	Register number
-----------	------------	-----------------

Return values

<i>0</i>	Error.
<i>int</i>	Register value.

3.2.1.10 int Cregarray::write (int *reg*, int *value*)

Write value to the register.

Parameters

<i>in</i>	<i>reg</i>	Register number
<i>in</i>	<i>value</i>	Value

Return values

<i>1</i>	Successfully.
<i>0</i>	Error.

The documentation for this class was generated from the following files:

- [src/regarray.hpp](#)
- [src/regarray.cpp](#)

3.3 lex_symbol Struct Reference

Public Attributes

- symbol_type **type**
- char * **ident**
- int **number**
- double **decimal**

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

- [src/settings.cpp](#)

3.4 Tconfig Struct Reference

Public Attributes

- int **m_daemon**
- char * **m_socket_name**
- char * **m_pid_file**
- char * **m_device**
- int **m_bound**
- int **m_parity**
- int **m_stopbit**

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

- [src/settings.hpp](#)
- [src/settings.cpp](#)

Chapter 4

File Documentation

4.1 src/database.cpp File Reference

database add and query functions

```
#include "database.hpp"
#include "regarray.hpp"
#include "query_lex.cpp"
#include "logger.hpp"
#include <stdio.h>
#include <unistd.h>
#include <string.h>
```

Functions

- void [lex_compare](#) (Cqlex &lex, Cqlex::lex_type type)
Lexer compare function.
- int [query](#) (Cqlex &lex, int fd, int rw)
Query parser.
- int [reg_add](#) (const int reg, const char *desc, const int a, const int b, const int c, const int d, const int flag)
Interface to add register to database.
- void [init_database](#) ()
Initialize database.
- void [delete_database](#) ()
Free database.

Variables

- [Cregarray](#) * [g_database](#)

4.1.1 Detailed Description

database add and query functions Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.1.2 Function Documentation

4.1.2.1 void delete_database ()

Free database.

Function free database

4.1.2.2 void init_database ()

Initialize database.

Function alloc database

4.1.2.3 void lex_compare (Cqllex & lex, Cqllex::lex_type type)

Lexer compare function.

This function compare two lexems and throw exception when they different

Parameters

in	<i>lex</i>	input lexer
in	<i>lex_type</i>	expect lex type

4.1.2.4 int query (Cqllex & lex, int fd, int rw)

Query parser.

This function parse query and send answer

Parameters

in	<i>lex</i>	Input lexer
in	<i>fd</i>	Client file descriptor
in	<i>rw</i>	Accept change RO row in database

Return values

0	Successfully.
1	With error.

4.1.2.5 int reg_add (const int reg, const char * desc, const int a, const int b, const int c, const int d, const int flag)

Interface to add register to database.

Parameters

in	<i>reg</i>	register number
in	<i>desc</i>	register description
in	<i>a</i>	parameter a
in	<i>b</i>	parameter b
in	<i>c</i>	parameter c
in	<i>d</i>	parameter d

<i>in</i>	<i>flag</i>	RW/RO flag
-----------	-------------	------------

Return values

<i>0</i>	Successfully.
<i>1</i>	With error, duplicit name.

4.2 src/database.hpp File Reference

database add and query functions

```
#include "query_lex.cpp"
```

Functions

- void [init_database](#) ()
Initialize database.
- void [delete_database](#) ()
Free database.
- int [query](#) ([Cqlex](#) &lex, int fd, int rw=0)
Query parser.
- int [reg_add](#) (const int reg, const char *desc, const int a, const int b, const int c, const int d, const int flag)
Interface to add register to database.

4.2.1 Detailed Description

database add and query functions Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.2.2 Function Documentation

4.2.2.1 void delete_database ()

Free database.

Function free database

4.2.2.2 void init_database ()

Initialize database.

Function alloc database

4.2.2.3 int query (Cqlex & lex, int fd, int rw)

Query parser.

This function parse query and send answer

Parameters

in	<i>lex</i>	Input lexer
in	<i>fd</i>	Client file descriptor
in	<i>rw</i>	Accept change RO row in database

Return values

0	Successfully.
1	With error.

4.2.2.4 int reg_add (const int *reg*, const char * *desc*, const int *a*, const int *b*, const int *c*, const int *d*, const int *flag*)

Interface to add register to database.

Parameters

in	<i>reg</i>	register number
in	<i>desc</i>	register description
in	<i>a</i>	parameter a
in	<i>b</i>	parameter b
in	<i>c</i>	parameter c
in	<i>d</i>	parameter d
in	<i>flag</i>	RW/RO flag

Return values

0	Successfully.
1	With error, duplicit name.

4.3 src/listeners.cpp File Reference

function to create listeners

```
#include "listeners.hpp"
#include <sys/un.h>
#include <sys/socket.h>
#include <fcntl.h>
#include <errno.h>
#include <termios.h>
#include <stdio.h>
#include <unistd.h>
#include "database.hpp"
#include "query_lex.cpp"
```

Functions

- int [unix_socket](#) (const [Tconfig](#) *config)
Function to create local unix socket.
- int [serial_link](#) (const [Tconfig](#) *config)
Function to alloc serial link.
- void [socket_listener](#) (int fd)
Listener function to listen on local unix socket.
- void [serial_listener](#) (int fd)

Listener function to listen on serial link.

- void * [socket_pthread](#) (void *fd)

Crete unix socket listener thread for parallel processing.

- void * **serial_pthread** (void *fd)

4.3.1 Detailed Description

function to create listeners Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.3.2 Function Documentation

4.3.2.1 int serial_link (const Tconfig * config)

Function to alloc serial link.

Parameters

in	config	Program configuration.
----	--------	------------------------

Return values

int	Success, return file descriptor.
0	Fail.

4.3.2.2 void serial_listener (int fd)

Listener function to listen on serial link.

Parameters

in	fd	File descriptor to serial link.
----	----	---------------------------------

4.3.2.3 void socket_listener (int fd)

Listener function to listen on local unix socket.

Parameters

in	fd	File descriptor to socket.
----	----	----------------------------

4.3.2.4 void* socket_pthread (void * fd)

Crete unix socket listener thread for parallel processing.

Parameters

in	fd	File descriptor to serial link.
----	----	---------------------------------

4.3.2.5 int unix_socket (const Tconfig * config)

Function to create local unix socket.

Parameters

<code>in</code>	<code>config</code>	Program configuration.
-----------------	---------------------	------------------------

Return values

<code>int</code>	Success, return file descriptor.
<code>0</code>	Fail.

4.4 src/listeners.hpp File Reference

function to create listeners

```
#include "settings.hpp"
#include "logger.hpp"
```

Functions

- `int` [unix_socket](#) (const [Tconfig](#) *config)
Function to create local unix socket.
- `int` [serial_link](#) (const [Tconfig](#) *config)
Function to alloc serial link.
- `void` [socket_listener](#) (int fd)
Listener function to listen on local unix socket.
- `void` [serial_listener](#) (int fd)
Listener function to listen on serial link.
- `void *` [socket_pthread](#) (void *fd)
Crete unix socket listener thread for parallel processing.
- `void *` [serial_pthread](#) (void *fd)

4.4.1 Detailed Description

function to create listeners Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.4.2 Function Documentation

4.4.2.1 `int serial_link (const Tconfig * config)`

Function to alloc serial link.

Parameters

<code>in</code>	<code>config</code>	Program configuration.
-----------------	---------------------	------------------------

Return values

<i>int</i>	Success, return file descriptor.
<i>0</i>	Fail.

4.4.2.2 void serial_listener (int *fd*)

Listener function to listen on serial link.

Parameters

<i>in</i>	<i>fd</i>	File descriptor to serial link.
-----------	-----------	---------------------------------

4.4.2.3 void socket_listener (int *fd*)

Listener function to listen on local unix socket.

Parameters

<i>in</i>	<i>fd</i>	File descriptor to socket.
-----------	-----------	----------------------------

4.4.2.4 void* socket_pthread (void * *fd*)

Create unix socket listener thread for parallel processing.

Parameters

<i>in</i>	<i>fd</i>	File descriptor to serial link.
-----------	-----------	---------------------------------

4.4.2.5 int unix_socket (const Tconfig * *config*)

Function to create local unix socket.

Parameters

<i>in</i>	<i>config</i>	Program configuration.
-----------	---------------	------------------------

Return values

<i>int</i>	Success, return file descriptor.
<i>0</i>	Fail.

4.5 src/logger.hpp File Reference

function to log errors

Functions

- void [emerg](#) (const char *msg)
Emergenci error, program can not continue.
- void [error](#) (const char *msg)
Error, program continue.
- void [warn](#) (const char *msg)
Warning, program continue.

- void `info` (const char *msg)
Info message, program continue.

4.5.1 Detailed Description

function to log errors Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.5.2 Function Documentation

4.5.2.1 void `emerg` (const char * *msg*)

Emergenci error, program can not continue.

Parameters

in	<i>message</i>	
----	----------------	--

4.5.2.2 void `error` (const char * *msg*)

Error, program continue.

Parameters

in	<i>message</i>	
----	----------------	--

4.5.2.3 void `info` (const char * *msg*)

Info message, program continue.

Parameters

in	<i>message</i>	
----	----------------	--

4.5.2.4 void `warn` (const char * *msg*)

Warning, program continue.

Parameters

in	<i>message</i>	
----	----------------	--

4.6 `src/main.cpp` File Reference

main function to run program


```
#include <sys/types.h>
#include <sys/stat.h>
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <errno.h>
#include <unistd.h>
#include <syslog.h>
#include <string.h>
#include <signal.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <pthread.h>
#include <pwd.h>
#include <grp.h>
#include "settings.hpp"
#include "logger.hpp"
#include "listeners.hpp"
#include "database.hpp"
```

Functions

- void [signal_sigterm_handler](#) (int signum)
Signals handler function.
- int [run_as_daemon](#) ()
Run program in background.
- int [main](#) (int argv, char **argc)
Main function.

Variables

- [Tconfig](#) * **config**
- int **sfd**
- int **ufd**

4.6.1 Detailed Description

main function to run program Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.6.2 Function Documentation

4.6.2.1 int main (int argv, char ** argc)

Main function.

This function run first

Return values

0	success
1	fail

4.6.2.2 int run_as_daemon ()

Run program in background.

This function run program in background, as daemon

Return values

<i>int</i>	Number of new pid.
------------	--------------------

4.6.2.3 void signal_sigterm_handler (int *signum*)

Signals handler function.

Parameters

<i>in</i>	<i>signum</i>	Signal number
-----------	---------------	---------------

4.7 src/query_lex.cpp File Reference

query lexer, use in [database.cpp](#) and [listeners.cpp](#)

```
#include <stdlib.h>
#include <stdio.h>
#include <unistd.h>
#include <string.h>
#include <sys/select.h>
```

Classes

- class [Cqllex](#)
Query lexer class.

4.7.1 Detailed Description

query lexer, use in [database.cpp](#) and [listeners.cpp](#) Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.8 src/regarray.cpp File Reference

register array database class

```
#include "regarray.hpp"
#include <string.h>
#include <stdlib.h>
#include <math.h>
#include <stdio.h>
#include "logger.hpp"
```

Macros

- `#define SAVE_FILE "/regsave"`

4.8.1 Detailed Description

register array database class Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.9 src/regarray.hpp File Reference

register array database class

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

Classes

- class [Cregarray](#)

4.9.1 Detailed Description

register array database class Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.10 src/settings.cpp File Reference

parse switches and configuration file, generate config struct

```
#include "string.h"
#include "stdio.h"
#include "stdlib.h"
#include "settings.hpp"
#include "logger.hpp"
#include "database.hpp"
```

Classes

- struct [lex_symbol](#)

Typedefs

- typedef struct [lex_symbol](#) **lex_symbol**

Enumerations

- enum **symbol_type** {
 PID_FILE, SOCKET_NAME, RUN_BACKGROUND, DEVICE,
 BOUND, PARITY, IDENT, ENDFILE,
 EQ, INTEGER, DECIMAL, REGISTER,
 RW, RO }

Functions

- void [sw_error](#) (const char *msg)
 Function to print error from switch.
- char [get_sw](#) (const char *x)
 Function check switch and return switch type.
- void [lex_get_input](#) ()
 Function get next character from configuration file.
- void [is_keyword](#) ()
 Function check if word is keyword.
- void [lex_ident_add](#) (char c)
 Function concat new character to ident string.
- void [get_lex](#) ()
 Automat to get next lexem from configuration file.
- void [compare](#) (symbol_type type)
 Function compare expect lexem with get lexem.
- int [conf_flag_parse](#) ()
 Function to parse RW|RO flag.
- double [conf_float_parse](#) ()
 Function to parse number.
- Tconfig * [conf_parser](#) (const char *path)
 Function to parse configuration file.
- Tconfig * [switch_parser](#) (int argv, char **argc)
 Function to parse switches.

Variables

- FILE * **g_conf_file**
- [lex_symbol](#) **g_lex_symbol**
- char **g_char**
- int **g_linenum**

4.10.1 Detailed Description

parse switches and configuration file, generate config struct Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.10.2 Function Documentation

4.10.2.1 void compare (symbol_type type)

Function compare expect lexem with get lexem.

if get lexem not equal witch expect throw exception

4.10.2.2 int conf_flag_parse ()

Function to parse RW|RO flag.

Return values

0	If RW
1	If RO

4.10.2.3 double conf_float_parse ()

Function to parse number.

Return values

double	Number
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4.10.2.4 Tconfig* conf_parser (const char * path)

Function to parse configuration file.

parse configuration file and save directive to struct [Tconfig](#)

Return values

struct	Tconfig* Configuration file structure.
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4.10.2.5 void get_lex ()

Automat to get next lexem from configuration file.

Automat set variable g_lex_symbol with new lexem

4.10.2.6 char get_sw (const char * x)

Function check switch and return switch type.

Parameters

<i>in</i>	<i>x</i>	Argument pointer
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Return values

<i>char</i>	Switch type.
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4.10.2.7 void is_keyword ()

Function check if word is keyword.

if word is keyword set lex type to that keyword, other way set IDENT type

4.10.2.8 void lex_ident_add (char *c*)

Function concat new character to ident string.

Parameters

<i>in</i>	<i>c</i>	New character
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4.10.2.9 void sw_error (const char * *msg*)

Function to print error from switch.

Parameters

<i>in</i>	<i>msg</i>	message to print
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4.10.2.10 Tconfig* switch_parser (int *argv*, char ** *argc*)

Function to parse switches.

Return values

<i>struct</i>	Tconfig* Configuration file structure.
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4.11 src/settings.hpp File Reference

parse switches and configuration file, generate config struct

Classes

- struct [Tconfig](#)

Typedefs

- typedef struct [Tconfig](#) **Tconfig**

Functions

- `Tconfig * switch_parser` (int argv, char **argc)
Function to parse switches.
- void `delete_config` (`Tconfig` *x)

4.11.1 Detailed Description

parse switches and configuration file, generate config struct Bohdan Vico (vicobohd@fit.cvut.cz)

Date

November, 2014

4.11.2 Function Documentation

4.11.2.1 `Tconfig* switch_parser (int argv, char ** argc)`

Function to parse switches.

Return values

<i>struct</i>	<code>Tconfig*</code> Configuration file structure.
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