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## **Chapter 3**

## **Data Structure Documentation**

## 3.1 csuStruct Struct Reference

```
#include <csu_struct.h>
```

## **Data Fields**

- float version
- float size\_max\_name
- float day
- float month
- float year
- float nb\_player
- game\_config config
- char \*\* player\_names
- float \* total\_points
- float \* rank
- float \* nb turn
- · float distributor
- float \*\* point

## 3.1.1 Detailed Description

Represent a csu file

Represent a list of game configuration

## 3.1.2 Field Documentation

3.1.2.1 game\_config config

The game configuration.

3.1.2.2 float day

Day of the structure creation.

3.1.2.3 float distributor Index of the distributor. 3.1.2.4 float month Month of the structure creation. 3.1.2.5 float nb\_player Number of player. 3.1.2.6 float\* nb\_turn Array containing the number of turn of all players. 3.1.2.7 char\*\* player\_names Array containing the name of all players. 3.1.2.8 float\*\* point Array containing the points of all players in each turn. 3.1.2.9 float\* rank Array containing the rank of all players. 3.1.2.10 float size\_max\_name Maximum size that can reach a player name. 3.1.2.11 float\* total\_points Array containing the total score of all players. 3.1.2.12 float version

Version of the structure.

3.1.2.13 float year

Year of the structure creation.

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

• csu\_struct.h

## 3.2 game\_config Struct Reference

```
#include <csu_struct.h>
```

## **Data Fields**

- float nb\_max
- · char first\_way
- char turn\_by\_turn
- · char use\_distributor
- char decimal\_place
- char max
- char name [SIZE MAX NAME]
- · float begin\_score

## 3.2.1 Detailed Description

Represent a game configuration

## 3.2.2 Field Documentation

3.2.2.1 float begin\_score

The score of all players in the beginning of the game

3.2.2.2 char decimal\_place

The number of decimal place which are display

3.2.2.3 char first\_way

Is 1 if the first those has the maximum of points, -1 otherwise

3.2.2.4 char max

Is 1 if the game use a maximum, 0 if it's a minimum

3.2.2.5 char name[SIZE\_MAX\_NAME]

The name of the game configuration

3.2.2.6 float nb\_max

Number maximum or minimum that can reach a player.

3.2.2.7 char turn\_by\_turn

Is 1 if the game is on turn by turn, 0 otherwise

## 3.2.2.8 char use\_distributor

Is 1 if the game use a distributor, 0 otherwise

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

• csu\_struct.h

## 3.3 list\_game\_config Struct Reference

```
#include <game_config.h>
```

## **Data Fields**

- int nb\_config
- char \*\* name\_game\_config

## 3.3.1 Field Documentation

```
3.3.1.1 char** name_game_config
```

The list of the game configuration.

3.3.1.2 int nb\_config

Number of game configuration.

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

• game\_config.h

## **Chapter 4**

## **File Documentation**

## 4.1 csu\_files.c File Reference

```
Files management.
```

```
#include "csu_files.h"
```

## **Functions**

- FILE \* openFileCsuExtension (char file\_name[], char mode[])
- csuStruct \* readCsuFile (char \*file\_name)
- int writeCsuFile (char \*file\_name, csuStruct \*ptr\_csu\_struct)
- int writeFileNewTurn (char \*file\_name, csuStruct \*ptr\_csu\_struct)

## 4.1.1 Detailed Description

Files management.

**Author** 

Remi BERTHO

Date

27/04/14

Version

2.2.0

## 4.1.2 Function Documentation

4.1.2.1 FILE \* openFileCsuExtension ( char file\_name[], char mode[] )

Open a file with his name and with a specific mode and add the file extension if necessary.

#### **Parameters**

in	file_name[]	the filename
in	mode[]	the mode

#### Returns

a pointer on the open file, NULL if there is a problem

Here is the call graph for this function:



## 4.1.2.2 csuStruct \* readCsuFile ( char \* file\_name )

Read the file with the name file\_name and copy the result in a new csu structure.

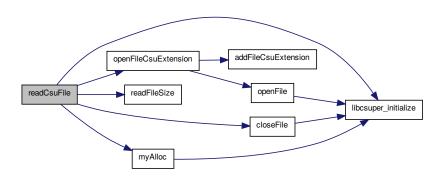
#### **Parameters**

in	file_name[]	the filename
----	-------------	--------------

## Returns

a pointer on the new csu structure, NULL if there is a problem

Here is the call graph for this function:



## 4.1.2.3 int writeCsuFile ( char \* file\_name, csuStruct \* ptr\_csu\_struct )

Write a csu file

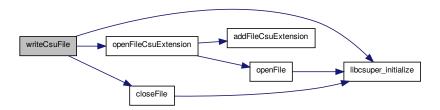
#### **Parameters**

in	*file_name	the filename
in	*ptr_csu_struct	a pointer on a csuStruct

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.1.2.4 void writeFileNewTurn ( char \* file\_name, csuStruct \* ptr\_csu\_struct )

Update the file with the new scores

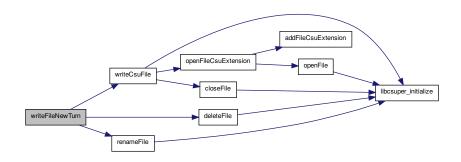
#### **Parameters**

in	*file_name	the filename
in	*ptr_csu_struct	a pointer on a csuStruct

## Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.2 csu\_files.h File Reference

Files management.

```
#include "csu_struct.h"
#include <unistd.h>
```

#### **Macros**

- #define SIZE MAX FILE NAME 250
- #define FILE EXTENSION "csu"
- #define STRING\_CHECK\_CSU\_FILE "CompteurScoreUniversel"

#### **Functions**

- FILE \* openFileCsuExtension (char file\_name[], char mode[])
- csuStruct \* readCsuFile (char \*file\_name)
- int writeCsuFile (char \*file\_name, csuStruct \*ptr\_csu\_struct)
- int writeFileNewTurn (char \*file\_name, csuStruct \*ptr\_csu\_struct)

## 4.2.1 Detailed Description

Files management.

**Author** 

Remi BERTHO

Date

16/04/14

Version

2.2.0

#### 4.2.2 Macro Definition Documentation

4.2.2.1 #define FILE\_EXTENSION "csu"

Define the file extension to "csu"

4.2.2.2 #define SIZE\_MAX\_FILE\_NAME 250

Define the size maximum of a filename to 250

4.2.2.3 #define STRING\_CHECK\_CSU\_FILE "CompteurScoreUniversel"

String for checking if the file is a csu file.

## 4.2.3 Function Documentation

4.2.3.1 FILE\* openFileCsuExtension ( char file\_name[], char mode[] )

Open a file with his name and with a specific mode and add the file extension if necessary.

#### **Parameters**

in	file_name[]	the filename
in	mode[]	the mode

## Returns

a pointer on the open file, NULL if there is a problem

Here is the call graph for this function:



## 4.2.3.2 csuStruct\* readCsuFile ( char \* file\_name )

Read the file with the name file\_name and copy the result in a new csu structure.

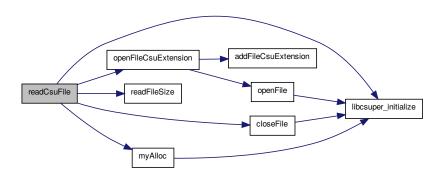
## **Parameters**

in	file_name[]	the filename

## Returns

a pointer on the new csu structure, NULL if there is a problem

Here is the call graph for this function:



## 4.2.3.3 int writeCsuFile ( char \* file\_name, csuStruct \* ptr\_csu\_struct )

Write a csu file

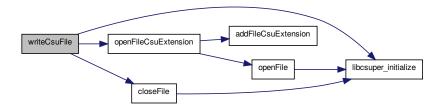
#### **Parameters**

in	*file_name	the filename
in	*ptr_csu_struct	a pointer on a csuStruct

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



4.2.3.4 int writeFileNewTurn ( char \* file\_name, csuStruct \* ptr\_csu\_struct )

Update the file with the new scores

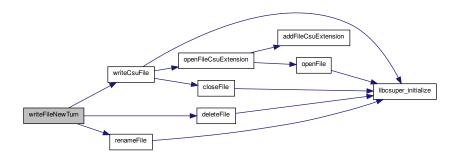
## **Parameters**

in	*file_name	the filename
in	*ptr_csu_struct	a pointer on a csuStruct

## Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.3 csu\_struct.c File Reference

Management of the csu files.

#include "csu\_struct.h"

#### **Functions**

- csuStruct \* newCsuStruct (float nb player, game config config)
- void closeCsuStruct (csuStruct \*ptr\_csu\_struct)
- void startNewTurn (csuStruct \*ptr\_csu\_struct, int index\_player)
- void endNewTurn (csuStruct \*ptr csu struct, int index player)
- void rankCalculation (csuStruct \*ptr\_csu\_struct)
- void addDistributorCsuStruct (csuStruct \*ptr\_csu\_struct, char \*distributor\_name)
- int exceedMaxNumber (csuStruct \*ptr\_csu\_struct)
- int maxNbTurn (csuStruct \*ptr\_csu\_struct)
- int searchPlayerIndex (csuStruct \*ptr csu struct, char \*player name)

#### 4.3.1 Detailed Description

Management of the csu files.

**Author** 

Remi BERTHO

Date

15/04/14

Version

2.2.0

## 4.3.2 Function Documentation

4.3.2.1 void addDistributorCsuStruct ( csuStruct \* ptr\_csu\_struct, char \* distributor\_name )

Add the distributor on the structure

#### **Parameters**

in	*distributor	the name of the distributor
	name	
in	*ptr_csu_struct	a pointer on a csuStruct

Here is the call graph for this function:



4.3.2.2 void closeCsuStruct ( csuStruct \* ptr\_csu\_struct )

Free a csuStruct

#### **Parameters**

ı			
	in,out	*ptr_csu_struct	a pointer to the csuStruct

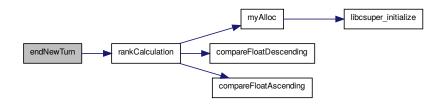
#### 4.3.2.3 void endNewTurn ( csuStruct \* ptr\_csu\_struct, int index\_player )

Update the total points, the number of turn, the distributor and the rank for a new turn

#### **Parameters**

in,out	*ptr_csu_struct	a pointer on a csuStruct
in,out	index_player	index_player the index of the player who begin a new turn, -1 if everybody
		begin a new turn

Here is the call graph for this function:



## 4.3.2.4 int exceedMaxNumber ( csuStruct \* ptr\_csu\_struct )

Check if someone exceed the maximum number

#### **Parameters**

in	*ptr_csu_struct	a pointer on a csuStruct
----	-----------------	--------------------------

## Returns

TRUE if someone exceed, FALSE otherwise

## 4.3.2.5 int maxNbTurn ( csuStruct \* ptr\_csu\_struct )

Search the maximal number of turn

#### **Parameters**

in	*ptr_csu_struct	a pointer on a csuStruct
----	-----------------	--------------------------

## Returns

the maximal number of turn

## 4.3.2.6 csuStruct \* newCsuStruct ( float nb\_player, game\_config config )

Create a new csuStruct from a game configuration and the number of player.

#### **Parameters**

in	nb_player	the number of player
in	config	the game configuration

Here is the call graph for this function:



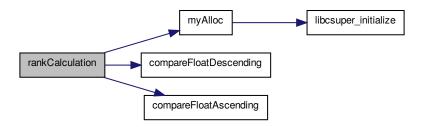
## 4.3.2.7 void rankCalculation ( csuStruct \* ptr\_csu\_struct )

## Calculate the rank

#### **Parameters**

ſ	in,out	*ptr csu struct	a pointer on a csuStruct
			a pointer of a constant

Here is the call graph for this function:



## 4.3.2.8 int searchPlayerIndex ( csuStruct \* ptr\_csu\_struct, char \* player\_name )

## Search the index of a person

## **Parameters**

in	*player_name	the name of the player
in	*ptr_csu_struct	a pointer on a csuStruct

#### Returns

the index, -1 if there is not found

Here is the call graph for this function:



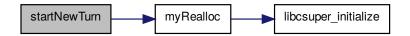
4.3.2.9 void startNewTurn ( csuStruct \* ptr\_csu\_struct, int index\_player )

Reallocate the memory for the point to begin a new turn.

#### **Parameters**

in,out	*ptr_csu_struct	a pointer on a csuStruct
in,out	index_player	the index of the player who begin a new turn, -1 if everybody begin a new turn

Here is the call graph for this function:



## 4.4 csu\_struct.h File Reference

Management of the csu files header.

```
#include <time.h>
#include <float.h>
#include "share.h"
```

## **Data Structures**

- · struct game\_config
- struct csuStruct

#### **Macros**

- #define SIZE\_MAX\_NAME 30
- #define VERSION 1.4

#### **Functions**

- csuStruct \* newCsuStruct (float nb\_player, game\_config config)
- void closeCsuStruct (csuStruct \*ptr csu struct)
- void startNewTurn (csuStruct \*ptr\_csu\_struct, int index\_player)
- void endNewTurn (csuStruct \*ptr\_csu\_struct, int index\_player)
- void rankCalculation (csuStruct \*ptr\_csu\_struct)
- void addDistributorCsuStruct (csuStruct \*ptr csu struct, char \*distributor name)
- int exceedMaxNumber (csuStruct \*ptr\_csu\_struct)
- int maxNbTurn (csuStruct \*ptr\_csu\_struct)
- int searchPlayerIndex (csuStruct \*ptr\_csu\_struct, char \*player\_name)

## 4.4.1 Detailed Description

Management of the csu files header.

**Author** 

Remi BERTHO

Date

16/04/14

Version

2.2.0

## 4.4.2 Macro Definition Documentation

4.4.2.1 #define SIZE\_MAX\_NAME 30

Define size max of name to 30

4.4.2.2 #define VERSION 1.4

Define the version to 1.4

#### 4.4.3 Function Documentation

 $\textbf{4.4.3.1} \quad \text{void addDistributorCsuStruct (} \quad \textbf{csuStruct} * \textit{ptr\_csu\_struct}, \text{ char } * \textit{distributor\_name} \text{ )}$ 

Add the distributor on the structure

#### **Parameters**

in	*distributor	the name of the distributor
	name	
in	*ptr_csu_struct	a pointer on a csuStruct

Here is the call graph for this function:



## 4.4.3.2 void closeCsuStruct ( csuStruct \* ptr\_csu\_struct )

#### Free a csuStruct

#### **Parameters**

in,out	*ptr_csu_struct	a pointer to the csuStruct
--------	-----------------	----------------------------

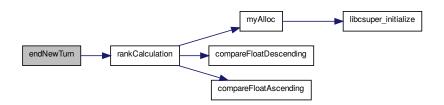
## 4.4.3.3 void endNewTurn ( csuStruct \* ptr\_csu\_struct, int index\_player )

Update the total points, the number of turn, the distributor and the rank for a new turn

#### **Parameters**

in,out	*ptr_csu_struct	a pointer on a csuStruct
in,out	index_player	index_player the index of the player who begin a new turn, -1 if everybody
		begin a new turn

Here is the call graph for this function:



## 4.4.3.4 int exceedMaxNumber ( csuStruct \* ptr\_csu\_struct )

Check if someone exceed the maximum number

#### **Parameters**

in	*ptr_csu_struct	a pointer on a csuStruct

## Returns

TRUE if someone exceed, FALSE otherwise

4.4.3.5 int maxNbTurn ( csuStruct \* ptr\_csu\_struct )

Search the maximal number of turn

#### **Parameters**

in	*ptr_csu_struct	a pointer on a csuStruct

#### Returns

the maximal number of turn

## 4.4.3.6 csuStruct\* newCsuStruct ( float nb\_player, game\_config config )

Create a new csuStruct from a game configuration and the number of player.

#### **Parameters**

in	nb_player	the number of player
in	config	the game configuration

Here is the call graph for this function:



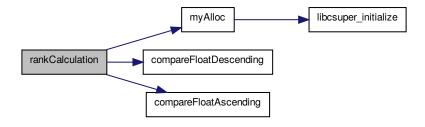
## 4.4.3.7 void rankCalculation ( csuStruct \* ptr\_csu\_struct )

#### Calculate the rank

## **Parameters**

in,out	*ptr_csu_struct	a pointer on a csuStruct

Here is the call graph for this function:



## 4.4.3.8 int searchPlayerIndex ( $csuStruct*ptr\_csu\_struct$ , $char*player\_name$ )

Search the index of a person

#### **Parameters**

in	*player_name	the name of the player
in	*ptr_csu_struct	a pointer on a csuStruct

## Returns

the index, -1 if there is not found

Here is the call graph for this function:



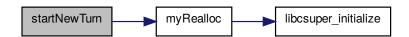
4.4.3.9 void startNewTurn ( csuStruct \* ptr\_csu\_struct, int index\_player )

Reallocate the memory for the point to begin a new turn.

#### **Parameters**

in,out	*ptr_csu_struct	a pointer on a csuStruct
in,out	index_player	the index of the player who begin a new turn, -1 if everybody begin a new turn

Here is the call graph for this function:



## 4.5 file\_system\_path.c File Reference

Fonctions qui l'emrankment des fichiers sauvegardes.

#include "file\_system\_path.h"

## **Functions**

- int createFileSystemPath ()
- int readFileSystemPath (char \*file\_name)
- int readSystemPath (char \*file\_name)
- int changeSystemPath (char \*new\_path)

- void readHomePath (char \*path)
- void readHomePathSlash (char \*path)

## 4.5.1 Detailed Description

Fonctions qui l'emrankment des fichiers sauvegardes.

**Author** 

Remi BERTHO

Date

13/02/14

Version

2.0

## 4.5.2 Function Documentation

## 4.5.2.1 int changeSystemPath ( char \* new\_path )

Change the system path

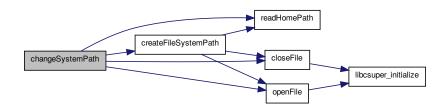
#### **Parameters**

in,out	*new_path	le nomveau chemin
--------	-----------	-------------------

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



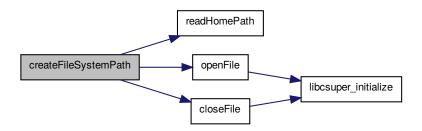
## 4.5.2.2 void createFileSystemPath ( )

Create the folder and the file which contain the system path

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.5.2.3 int readFileSystemPath ( char \* file\_name )

Read the system path and the path read to the filename

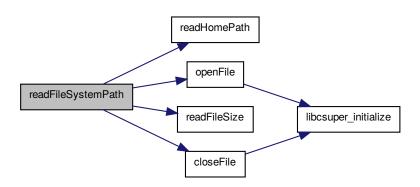
#### **Parameters**

in	,out	*file_name	the filename

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.5.2.4 void readHomePath ( char \* path )

Read the home path

#### **Parameters**

in,out	path	the path
--------	------	----------

Read the home path with a slash at the end

#### **Parameters**

in,out	path	the path

4.5.2.5 void readHomePathSlash ( char \* path )

```
4.5.2.6 int readSystemPath ( char * file_name )
```

Add the system path, if the file system path doesn't exist, it create it.

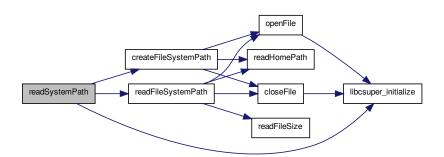
#### **Parameters**

in,out	*file_name	the filename
--------	------------	--------------

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.6 file\_system\_path.h File Reference

Prototypes des fonctions qui l'emrankment des fichiers sauvegardes.

```
#include <sys/stat.h>
#include <sys/types.h>
#include "csu_struct.h"
#include "csu_files.h"
```

#### **Macros**

- #define FILE\_NAME\_SYSTEM\_PATH "system\_path.txt"
- #define MAIN\_FOLDER\_NAME ".csuper"

## **Functions**

- int createFileSystemPath ()
- int readFileSystemPath (char \*file\_name)
- int readSystemPath (char \*file\_name)
- int changeSystemPath (char \*new\_path)
- void readHomePath (char \*path)
- void readHomePathSlash (char \*path)

## 4.6.1 Detailed Description

Prototypes des fonctions qui l'emrankment des fichiers sauvegardes.

**Author** 

Remi BERTHO

Date

16/04/14

Version

2.2.0

## 4.6.2 Macro Definition Documentation

4.6.2.1 #define FILE\_NAME\_SYSTEM\_PATH "system\_path.txt"

Define filename of the file which contain the system path to "system\_path.txt"

4.6.2.2 #define MAIN\_FOLDER\_NAME ".csuper"

Define the folder name of the csuper preferences

## 4.6.3 Function Documentation

4.6.3.1 int changeSystemPath ( char \* new\_path )

Change the system path

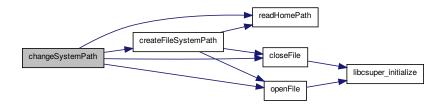
**Parameters** 

in,out	*new_path	le nomveau chemin
--------	-----------	-------------------

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



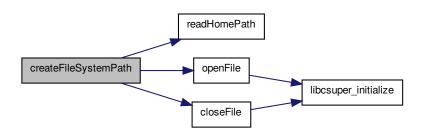
## 4.6.3.2 int createFileSystemPath ( )

Create the folder and the file which contain the system path

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.6.3.3 int readFileSystemPath ( char \* file\_name )

Read the system path and the path read to the filename

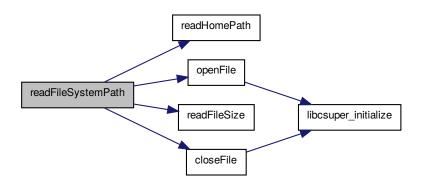
## **Parameters**

in,out	*file_name	the filename

Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.6.3.4 void readHomePath ( char \* path )

## Read the home path

# **Parameters**

in,out	path the	ne path

Read the home path with a slash at the end

#### **Parameters**

in,out	path	the path

4.6.3.5 void readHomePathSlash ( char \* path )

4.6.3.6 int readSystemPath ( char \* file\_name )

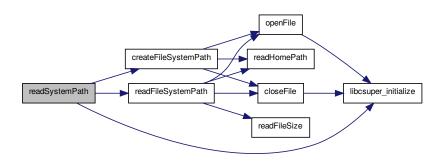
Add the system path, if the file system path doesn't exist, it create it.

in,out	*file_name	the filename
--------	------------	--------------

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



# 4.7 game\_config.c File Reference

## Game configuration.

#include "game\_config.h"

## **Functions**

- list\_game\_config \* newListGameConfig (int nb\_config)
- void closeListGameConfig (list\_game\_config \*ptr\_list\_config)
- int makeConfigListFile (char \*home path)
- list\_game\_config \* readConfigListFile (char \*home\_path)
- int addConfigListFile (char \*new\_config\_name, char \*home\_path)
- int removeConfigListFile (int index\_delete, list\_game\_config \*ptr\_list\_config, char \*home\_path)
- int newConfigFile (game\_config config, char \*home\_path)
- int removeConfigFile (char \*config\_name, char \*home\_path)
- int readConfigFile (int index\_read, list\_game\_config \*ptr\_list\_config, game\_config \*ptr\_config, char \*home\_path)
- int exportConfigFile (char \*home\_path, char \*file\_name)
- int importConfigFile (char \*home\_path, char \*file\_name)

#### 4.7.1 Detailed Description

Game configuration.

**Author** 

Remi BERTHO

Date

29/04/14

Version

2.2.1

## 4.7.2 Function Documentation

## 4.7.2.1 int addConfigListFile ( char \* new\_config\_name, char \* home\_path )

Add a new game configuration into the file which contain the list of game configuration.

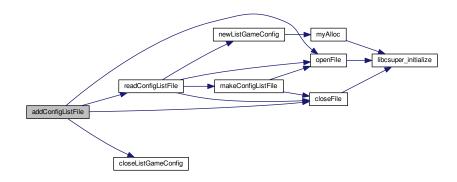
#### **Parameters**

in	new_config name	the name of the new game configuration
in	home_path	the path to the home directory

## Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.7.2.2 void closeListGameConfig ( list\_game\_config \* ptr\_list\_config )

Free a list of game configuration

#### **Parameters**

in	*ptr_list_config	a pointer on a list of game configuration

# 4.7.2.3 int exportConfigFile ( char \* home\_path, char \* file\_name )

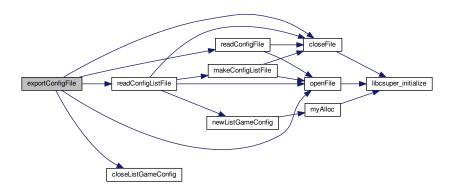
Export all config file into a file.

in	file_name	the filename of the exported file.
in	home_path	the path to the home directory

#### Returns

a list\_game\_config

Here is the call graph for this function:



4.7.2.4 int importConfigFile ( char \* home\_path, char \* file\_name )

Import all config file from a file.

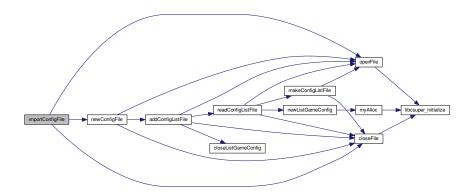
#### **Parameters**

in	file_name	the filename of the exported file.
in	home_path	the path to the home directory

#### Returns

a list\_game\_config

Here is the call graph for this function:



# 4.7.2.5 int makeConfigListFile ( char \* home\_path )

Create the folder which contain the games configurations and the files which contain the list of games configurations

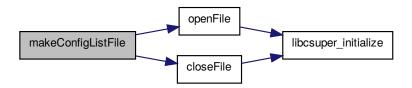
#### **Parameters**

in	*home_path	the path to the home directory

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



4.7.2.6 int newConfigFile ( game\_config config, char \* home\_path )

Create a game configuration file and put it into the game configuration file list.

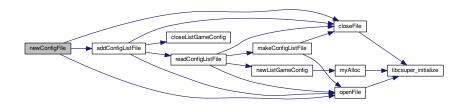
## **Parameters**

in	config	the gale configuration
in	home_path	the path to the home directory

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



4.7.2.7 list\_game\_config \* newListGameConfig ( int nb\_config )

Create a list of game configuration.

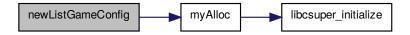
#### **Parameters**

in	nb_config	the number of game configuration

#### Returns

une list\_game\_config

Here is the call graph for this function:



4.7.2.8 int readConfigFile ( int index\_read, list\_game\_config \* ptr\_list\_config, game\_config \* ptr\_config, char \* home\_path )

Read a game configuration file.

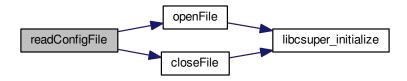
#### **Parameters**

in	index_read	the index of the game configuration to be read
in	ptr_list_config	a pointer on the game configration list
in	ptr_config	a pointer on a game configuration
in	home_path	the path to the home directory

#### Returns

a list\_game\_config

Here is the call graph for this function:



4.7.2.9 list\_game\_config \* readConfigListFile ( char \* home\_path )

Read the file which contain the list of game configuration.

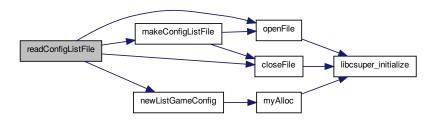
#### **Parameters**

in	*home_path	the path to the home directory

#### Returns

a list\_game\_config

Here is the call graph for this function:



4.7.2.10 int removeConfigFile ( char \* config\_name, char \* home\_path )

Delete a game configuration.

# **Parameters**

in	config_name	the name of the game configuration which will be deleted
in	home_path	the path to the home directory

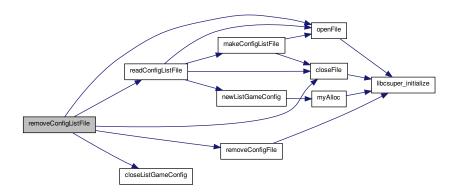
## Returns

TRUE if everything is OK, FALSE otherwise



4.7.2.11 int removeConfigListFile ( int index\_delete, list\_game\_config \* ptr\_list\_config, char \* home\_path )

Here is the call graph for this function:



# 4.8 game\_config.h File Reference

## Game configurations.

```
#include <math.h>
#include "csu_struct.h"
#include "file_system_path.h"
```

#### **Data Structures**

· struct list\_game\_config

#### **Macros**

- #define CONFIGURATION FOLDER NAME "config"
- #define CONFIGURATION\_FILE\_NAME "configuration"

## **Functions**

- list\_game\_config \* newListGameConfig (int nb\_config)
- void closeListGameConfig (list\_game\_config \*ptr list\_config)
- int makeConfigListFile (char \*home\_path)
- list\_game\_config \* readConfigListFile (char \*home\_path)
- int addConfigListFile (char \*new\_config\_name, char \*home\_path)
- int removeConfigListFile (int index\_delete, list\_game\_config \*ptr\_list\_config, char \*home\_path)
- int newConfigFile (game config config, char \*home path)
- int removeConfigFile (char \*config\_name, char \*home\_path)
- int readConfigFile (int index\_read, list\_game\_config \*ptr\_list\_config, game\_config \*ptr\_config, char \*home\_path)
- int exportConfigFile (char \*home\_path, char \*file\_name)
- int importConfigFile (char \*home\_path, char \*file\_name)

## 4.8.1 Detailed Description

Game configurations.

**Author** 

Remi BERTHO

Date

29/04/14

Version

2.2.1

#### 4.8.2 Macro Definition Documentation

#### 4.8.2.1 #define CONFIGURATION\_FILE\_NAME "configuration"

Define the name of the file which contain the list of the game configurations

## 4.8.2.2 #define CONFIGURATION\_FOLDER\_NAME "config"

Define the name of the folder which contain the game configurations

#### 4.8.3 Function Documentation

4.8.3.1 int addConfigListFile ( char \* new\_config\_name, char \* home\_path )

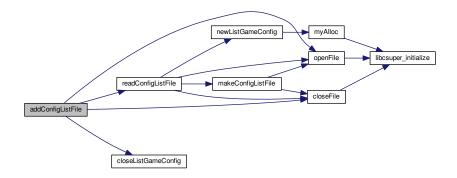
Add a new game configuration into the file which contain the list of game configuration.

#### **Parameters**

in	new_config	the name of the new game configuration
	name	
in	home_path	the path to the home directory

## Returns

TRUE if everything is OK, FALSE otherwise



## 4.8.3.2 void closeListGameConfig ( list\_game\_config \* ptr\_list\_config )

Free a list of game configuration

#### **Parameters**

in	*ptr_list_config	a pointer on a list of game configuration

## 4.8.3.3 int exportConfigFile ( char \* home\_path, char \* file\_name )

Export all config file into a file.

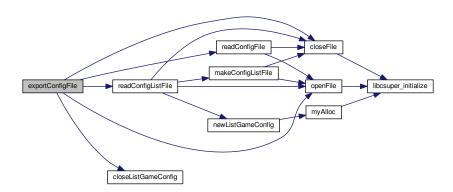
#### **Parameters**

in	file_name	the filename of the exported file.
in	home_path	the path to the home directory

## Returns

a list\_game\_config

Here is the call graph for this function:



# 4.8.3.4 int importConfigFile ( char \* home\_path, char \* file\_name )

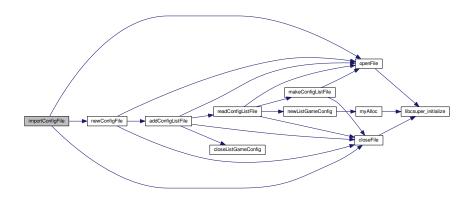
Import all config file from a file.

in	file_name	the filename of the exported file.
in	home_path	the path to the home directory

Returns

a list\_game\_config

Here is the call graph for this function:



## 4.8.3.5 int makeConfigListFile ( char \* home\_path )

Create the folder which contain the games configurations and the files which contain the list of games configurations

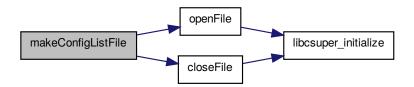
Parameters

in	*home_path	the path to the home directory
----	------------	--------------------------------

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



## 4.8.3.6 int newConfigFile ( game\_config config, char \* home\_path )

Create a game configuration file and put it into the game configuration file list.

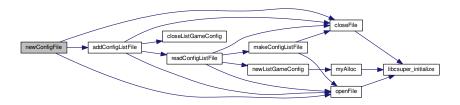
#### **Parameters**

in	config	the gale configuration
in	home path	the path to the home directory

## Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



4.8.3.7 list\_game\_config\* newListGameConfig ( int nb\_config )

Create a list of game configuration.

#### **Parameters**

in	nb_config	the number of game configuration

#### Returns

une list\_game\_config

Here is the call graph for this function:



4.8.3.8 int readConfigFile ( int index\_read, list\_game\_config \* ptr\_list\_config, game\_config \* ptr\_config, char \* home\_path )

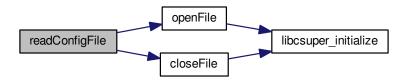
Read a game configuration file.

in	index_read	the index of the game configuration to be read
in	ptr_list_config	a pointer on the game configration list
in	ptr_config	a pointer on a game configuration
in	home_path	the path to the home directory

#### Returns

a list\_game\_config

Here is the call graph for this function:



4.8.3.9 list\_game\_config\* readConfigListFile ( char \* home\_path )

Read the file which contain the list of game configuration.

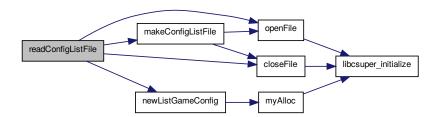
#### **Parameters**

in	*home_path	the path to the home directory

## Returns

a list\_game\_config

Here is the call graph for this function:



4.8.3.10 int removeConfigFile ( char \* config\_name, char \* home\_path )

Delete a game configuration.

#### **Parameters**

in	config_name	the name of the game configuration which will be deleted
in	home_path	the path to the home directory

#### Returns

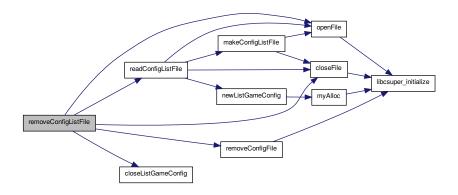
TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



4.8.3.11 int removeConfigListFile ( int index\_delete, list\_game\_config \* ptr\_list\_config, char \* home\_path )

Here is the call graph for this function:



# 4.9 libcsuper.h File Reference

Inclusion of all header files of libcsuper.

```
#include "csu_struct.h"
#include "share.h"
#include "csu_files.h"
#include "file_system_path.h"
#include "main_argument.h"
#include "game_config.h"
```

# 4.9.1 Detailed Description

Inclusion of all header files of libcsuper.

**Author** 

Remi BERTHO

Date

05/04/14

Version

2.2.0

# 4.10 main\_argument.c File Reference

```
Begin csuper.
```

```
#include "main_argument.h"
```

#### **Functions**

- int searchArgument (int argc, char \*argv[], int \*function, int \*file\_place)
- void displayHelp ()

# 4.10.1 Detailed Description

Begin csuper.

Author

Remi BERTHO

Date

16/04/14

Version

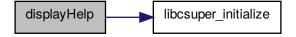
2.2.0

# 4.10.2 Function Documentation

```
4.10.2.1 void displayHelp ( )
```

Display the help

Here is the call graph for this function:



4.10.2.2 int searchArgument ( int argc, char \* argv[], int \* function, int \* file\_place )

Search the argument passed to the main function

#### **Parameters**

in	argc	the number of argument
in	argv	the array of argument
in	function	integer which determine which function run
in	file_place	integer which determine the index of the filename

#### Returns

TRUE if the function founded an argument, FALSE otherwise

Here is the call graph for this function:



# 4.11 main\_argument.h File Reference

## Begin csuper.

#include "share.h"

## **Macros**

- #define STRING\_READ\_FILE "--read"
- #define STRING\_READ\_FILE\_RED "-r"
- #define READ\_FILE 0
- #define STRING\_OPEN\_FILE "--open"
- #define STRING\_OPEN\_FILE\_RED "-o"
- #define OPEN\_FILE 1

- #define STRING\_HELP "--help"
- #define STRING\_HELP\_RED "-h"
- #define HELP 2

## **Functions**

- int searchArgument (int argc, char \*argv[], int \*function, int \*file\_place)
- void displayHelp ()

## 4.11.1 Detailed Description

Begin csuper.

**Author** 

Remi BERTHO

Date

16/04/14

Version

2.2.0

## 4.11.2 Macro Definition Documentation

4.11.2.1 #define HELP 2

Define the call help to 2

4.11.2.2 #define OPEN\_FILE 1

Define the call to read a file to 1

4.11.2.3 #define READ\_FILE 0

Define the call to read a file to 0

4.11.2.4 #define STRING\_HELP "--help"

Define the argument which call help to "--help"

4.11.2.5 #define STRING\_HELP\_RED "-h"

Define the reduce argument which call help to "-h"

4.11.2.6 #define STRING\_OPEN\_FILE "--open"

Define the argument which call to open a file to "--open"

## 4.11.2.7 #define STRING\_OPEN\_FILE\_RED "-o"

Define the reduce argument which call to open a file to "-o"

#### 4.11.2.8 #define STRING\_READ\_FILE "--read"

Define the argument which call to read a file to "--read"

## 4.11.2.9 #define STRING\_READ\_FILE\_RED "-r"

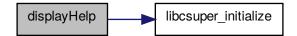
Define the reduce argument which call to read a file to "-r"

#### 4.11.3 Function Documentation

#### 4.11.3.1 void displayHelp ( )

## Display the help

Here is the call graph for this function:



## 4.11.3.2 int searchArgument ( int argc, char \* argv[], int \* function, int \* file\_place )

Search the argument passed to the main function

## **Parameters**

in	argc	the number of argument
in	argv	the array of argument
in	function	integer which determine which function run
in	file_place	integer which determine the index of the filename

#### Returns

TRUE if the function founded an argument, FALSE otherwise



4.12 share.c File Reference 47

## 4.12 share.c File Reference

Essential function of libcsuper.

```
#include "share.h"
#include "csu_files.h"
```

#### **Functions**

- void libcsuper initialize ()
- void wrongChoice ()
- void clearScreen ()
- int compareFloatAscending (void const \*a, void const \*b)
- int compareFloatDescending (void const \*a, void const \*b)
- FILE \* openFile (char file\_name[], char mode[])
- int closeFile (FILE \*ptr\_file)
- int readFileSize (FILE \*ptr\_file)
- void \* myAlloc (int size\_alloue)
- void myRealloc (void \*\*ptr, int size\_alloue)
- void addFileCsuExtension (char \*file\_name)
- int deleteFile (char \*file\_name)
- int renameFile (char \*old name, char \*new name)

## 4.12.1 Detailed Description

Essential function of libcsuper.

**Author** 

Remi BERTHO

Date

15/04/14

Version

2.2.0

## 4.12.2 Function Documentation

4.12.2.1 void addFileCsuExtension ( char \* file\_name )

Add the csu file extension

	***	
lin	file name	│ the filename

4.12.2.2 void clearScreen ( )

Clear the terminal.

Here is the call graph for this function:



4.12.2.3 int closeFile ( FILE \* ptr\_file )

## Close the file

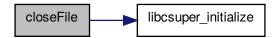
#### **Parameters**

lin	*ptr file	the file
	· pu_1110	are me

## Returns

0 if everything is OK, 1 otherwise

Here is the call graph for this function:



4.12.2.4 int compareFloatAscending (void const \*a, void const \*b)

## Compare 2 float

## **Parameters**

in	*a	a pointer on a float
in	*b	a pointer on a float

#### Returns

1 if a>b, 0 if a=b and -1 if a<b

4.12.2.5 int int compareFloatDescending (void const \*a, void const \*b)

Compare 2 float

#### **Parameters**

in	*a	a pointer on a float
in	*b	a pointer on a float

#### Returns

1 if a < b, 0 if a = b and -1 if a > b

4.12.2.6 int deleteFile ( char \* file\_name )

## Delete a file

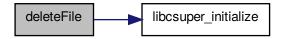
#### **Parameters**

in	*file_name	the filename

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



4.12.2.7 void libcsuper\_initialize ( )

Initialize libcsuper with gettext.

4.12.2.8 void \* myAlloc ( int size\_alloue )

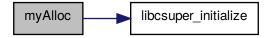
Allocate a memory block and check if everything is OK.

in	size_alloue	the size

#### Returns

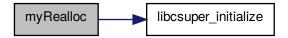
a pointer on the allocate memory block

Here is the call graph for this function:



4.12.2.9 void myRealloc ( void \*\* ptr, int size\_alloue )

Here is the call graph for this function:



4.12.2.10 FILE \* openFile ( char file\_name[], char mode[] )

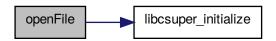
Open a file with his name and with a specific mode.

## Parameters

in	file_name[]	the filename
in	mode[]	the mode

#### Returns

a pointer to the open file, NULL if there was a problem



4.12.2.11 int readFileSize ( FILE \* ptr\_file )

Read the size of the file

#### **Parameters**

in	*ptr_file	the file

## Returns

the size of the file

4.12.2.12 int renameFile ( char \* old\_name, char \* new\_name )

#### Rename a file.

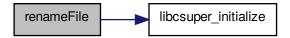
#### **Parameters**

in	*old_name	the old name of the file
in	*new_name	the new name of the file

#### Returns

TRUE if everything is OK, FALSE otherwise

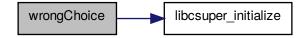
Here is the call graph for this function:



4.12.2.13 void wrongChoice ( )

Display an error message.

Here is the call graph for this function:



# 4.13 share.h File Reference

Header for the essential function of libcsuper.

```
#include <stdio.h>
#include <stdlib.h>
#include <errno.h>
#include <string.h>
#include <libintl.h>
```

#### **Macros**

- #define TRUE 1
- #define FALSE 0
- #define \_(String) dgettext ("libcsuper", String)

#### **Functions**

- void libcsuper\_initialize ()
- void wrongChoice ()
- void clearScreen ()
- int compareFloatDescending (void const \*a, void const \*b)
- int compareFloatAscending (void const \*a, void const \*b)
- FILE \* openFile (char nome[], char mode[])
- int closeFile (FILE \*ptr\_file)
- int readFileSize (FILE \*ptr\_file)
- void \* myAlloc (int size\_alloue)
- void myRealloc (void \*\*ptr, int size\_alloue)
- void addFileCsuExtension (char \*file\_name)
- int deleteFile (char \*file\_name)
- int renameFile (char \*old\_name, char \*new\_name)

## 4.13.1 Detailed Description

Header for the essential function of libcsuper.

Author

Remi BERTHO

Date

15/04/14

Version

2.2.0

## 4.13.2 Macro Definition Documentation

```
4.13.2.1 #define _( String ) dgettext ("libcsuper", String)
```

Define the \_ for gettext.

4.13.2.2 #define FALSE 0

Definit FALSE a 0

## 4.13.2.3 #define TRUE 1

Definit TRUE a 1

## 4.13.3 Function Documentation

4.13.3.1 void addFileCsuExtension ( char \* file\_name )

Add the csu file extension

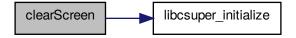
**Parameters** 

in	file_name	the filename
----	-----------	--------------

## 4.13.3.2 void clearScreen ( )

Clear the terminal.

Here is the call graph for this function:



## 4.13.3.3 int closeFile ( FILE \* ptr\_file )

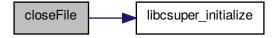
# Close the file

**Parameters** 

in	*ptr_file	the file

## Returns

0 if everything is OK, 1 otherwise



4.13 share.h File Reference 55

4.13.3.4 int compareFloatAscending ( void const \* a, void const \* b )

Compare 2 float

#### **Parameters**

in	*a	a pointer on a float
in	*b	a pointer on a float

#### Returns

1 if a>b, 0 if a=b and -1 if a<b

4.13.3.5 int compareFloatDescending (void const \* a, void const \* b)

## Compare 2 float

#### **Parameters**

in	*a	a pointer on a float
in	*b	a pointer on a float

#### Returns

1 if a < b, 0 if a=b and -1 if a > b

4.13.3.6 int deleteFile ( char \* file\_name )

#### Delete a file

#### **Parameters**

in	*file_name	the filename

#### Returns

TRUE if everything is OK, FALSE otherwise

Here is the call graph for this function:



4.13.3.7 void libcsuper\_initialize ( )

Initialize libcsuper with gettext.

4.13.3.8 void\* myAlloc ( int size\_alloue )

Allocate a memory block and check if everything is OK.

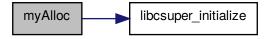
#### **Parameters**

in	size_alloue	the size

#### Returns

a pointer on the allocate memory block

Here is the call graph for this function:



4.13.3.9 void myRealloc ( void \*\* ptr, int size\_alloue )

Here is the call graph for this function:



4.13.3.10 FILE\* openFile ( char file\_name[], char mode[] )

Open a file with his name and with a specific mode.

in	file_name[]	the filename
in	mode[]	the mode

#### Returns

a pointer to the open file, NULL if there was a problem

Here is the call graph for this function:



4.13.3.11 int readFileSize ( FILE \* ptr\_file )

Read the size of the file

#### **Parameters**

in	*ptr_file	the file

## Returns

the size of the file

4.13.3.12 int renameFile ( char \* old\_name, char \* new\_name )

#### Rename a file.

# **Parameters**

in	*old_name	the old name of the file
in	*new_name	the new name of the file

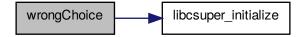
# Returns

TRUE if everything is OK, FALSE otherwise



4.13.3.13 void wrongChoice ( )

Display an error message.



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