TP1

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Chapter 1

Data Structure Index

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Here are the data structures with brief descriptions:

Login .	 																				5
sockbuff	 																				5

2 Data Structure Index

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

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/home/torce/Desktop/JuanSoriano/TP1/src/baash/evalfunc.c					 				. 9
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File Index

Chapter 3

Data Structure Documentation

3.1 Login Struct Reference

Data Fields

- char name [SNAME]
- char password [SNAME]
- 3.1.1 Field Documentation
- 3.1.1.1 char name[SNAME]
- 3.1.1.2 char password[SNAME]

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

• /home/torce/Desktop/JuanSoriano/TP1/src/server/main.c

3.2 sockbuff Struct Reference

Data Fields

- · int sockfd
- char * buffer
- size_t buffer_size

3.2.1 Field Documentation

- 3.2.1.1 char* buffer
- 3.2.1.2 size_t buffer_size
- 3.2.1.3 int sockfd

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

• /home/torce/Desktop/JuanSoriano/TP1/src/client/main.c

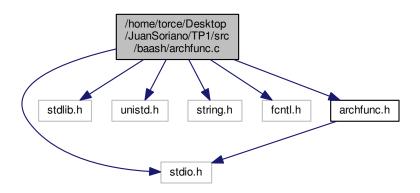
Chapter 4

File Documentation

4.1 /home/torce/Desktop/JuanSoriano/TP1/src/baash/archfunc.c File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <fcntl.h>
#include "archfunc.h"
```

Include dependency graph for archfunc.c:



Functions

- void buscarArchivo (char *file, char **carpetas, char *commandFile)
- void aArchivo (char *archivo)
- void deArchivo (char filename[])

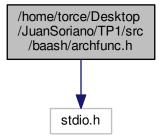
4.1.1 Function Documentation

- 4.1.1.1 void aArchivo (char * archivo)
- 4.1.1.2 void buscarArchivo (char * file, char ** carpetas, char * commandFile)
- 4.1.1.3 void deArchivo (char filename[])

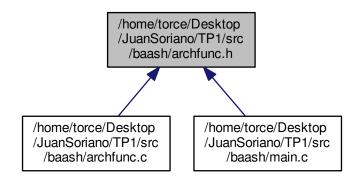
4.2 /home/torce/Desktop/JuanSoriano/TP1/src/baash/archfunc.h File Reference

#include <stdio.h>

Include dependency graph for archfunc.h:



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



Functions

- void buscarArchivo (char *file, char **carpetas, char *commandFile)
- void aArchivo (char *archivo)
- void deArchivo (char filename[])

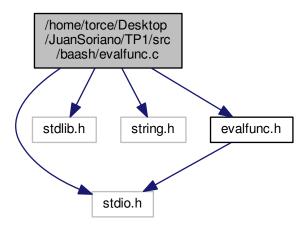
4.2.1 Function Documentation

```
4.2.1.1 void aArchivo ( char * archivo )
4.2.1.2 void buscarArchivo ( char * file, char ** carpetas, char * commandFile )
```

4.3 /home/torce/Desktop/JuanSoriano/TP1/src/baash/evalfunc.c File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include "evalfunc.h"
Include dependency graph for evalfunc.c:
```

4.2.1.3 void deArchivo (char filename[])



Functions

- int evaluarPipe (char **argv, char **argv1, char **argv2)
- int evaluarBackground (char **argv)
- int evaluarRedir (char **argv, char *filename)

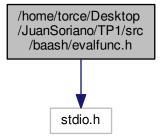
4.3.1 Function Documentation

- 4.3.1.1 int evaluarBackground (char ** argv)
- 4.3.1.2 int evaluarPipe (char ** argv, char ** argv1, char ** argv2)

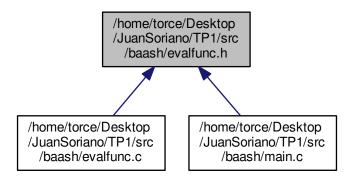
4.3.1.3 int evaluarRedir (char ** argv, char * filename)

4.4 /home/torce/Desktop/JuanSoriano/TP1/src/baash/evalfunc.h File Reference

#include <stdio.h>
Include dependency graph for evalfunc.h:



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



Functions

- int evaluarPipe (char **argv, char **argv1, char **argv2)
- int evaluarBackground (char **argv)
- int evaluarRedir (char **argv, char *filename)

4.4.1 Function Documentation

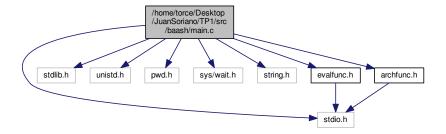
```
4.4.1.1 int evaluarBackground ( char ** argv )4.4.1.2 int evaluarPipe ( char ** argv, char ** argv1, char ** argv2 )
```

4.4.1.3 int evaluarRedir (char ** argv, char * filename)

4.5 /home/torce/Desktop/JuanSoriano/TP1/src/baash/main.c File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <pwd.h>
#include <sys/wait.h>
#include <string.h>
#include "evalfunc.h"
#include "archfunc.h"
```

Include dependency graph for main.c:



Functions

- void ejecPipeline (char *argv1[], char *argv2[], char *folders[])
- int parsearPath (char **folders)
- int leerTeclado (char **argv, char *input)
- int main ()

4.5.1 Function Documentation

```
4.5.1.1 void ejecPipeline ( char * argv1[], char * argv2[], char * folders[] )
```

- 4.5.1.2 int leerTeclado (char ** argv, char * input)
- 4.5.1.3 int main (void)

```
4.5.1.4 int parsearPath ( char ** folders )
```

4.6 /home/torce/Desktop/JuanSoriano/TP1/src/client/main.c File Reference

```
#include <arpa/inet.h>
#include <pthread.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
Include dependency graph for main.c:
```

/home/torce/Desktop /JuanSoriano/TP1/src /client/main.c

stdio.h

stdlib.h

string.h

pthread.h

arpa/inet.h

Data Structures

struct sockbuff

Macros

• #define BUFF_SIZE 1024

Functions

- void * writeto_socket (void *arg)
- int **UDPcom** (uint16_t UDPport, char *ipaddr, char *filename)
- int main (void)

Variables

- uint16_t portnr
- char ipaddrbuff [20]
- char * ipaddr = NULL

- 4.6.1 Macro Definition Documentation
- 4.6.1.1 #define BUFF_SIZE 1024
- 4.6.2 Function Documentation
- 4.6.2.1 int main (void)
- 4.6.2.2 int UDPcom (uint16_t UDPport, char * ipaddr, char * filename)

genera una peticion de descarga de un archivo al servidor por socket UDP

Parameters

UDPport	es el puerto que el servidor le asigno al cliente
ipaddr	es la direccion ip
filename	es el nombre del archivo que se quiere descargar

4.6.2.3 void * writeto_socket (void * arg)

toma los datos ingresados por el teclado y parsea lo ingresado para ver si se trata de un comando o una descarga.

Parameters

arg	es un puntero a la direccion en memoria del struct sockbuff
-----	---

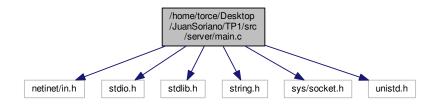
4.6.3 Variable Documentation

- 4.6.3.1 char* ipaddr = NULL
- 4.6.3.2 char ipaddrbuff[20]
- 4.6.3.3 uint16_t portnr

4.7 /home/torce/Desktop/JuanSoriano/TP1/src/server/main.c File Reference

```
#include <netinet/in.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
#include <unistd.h>
```

Include dependency graph for main.c:



Data Structures

struct Login

Macros

- #define LISTEN_PORT 6020
- #define SNAME 20
- #define USER NR 2
- #define **BUFF_SIZE** 1024

Functions

- int verificar (char *user, char *password)
- void **UDPcom** (uint16_t UDPport)
- int main (void)
- 4.7.1 Macro Definition Documentation
- 4.7.1.1 #define BUFF_SIZE 1024
- 4.7.1.2 #define LISTEN_PORT 6020
- 4.7.1.3 #define SNAME 20
- 4.7.1.4 #define USER_NR 2
- 4.7.2 Function Documentation
- 4.7.2.1 int main (void)
- 4.7.2.2 void UDPcom (uint16_t UDPport)

Realiza una conexion UDP para enviar un archivo de forma no segura al cliente

Parameters

UDPport	es el puerto UDP de conexion con el cliente	
---------	---	--

4.7.2.3 int verificar (char * user, char * password)

Verifica del lado del server que los datos ingresados por el cliente correspondan a un usuario registrado

Parameters

user	el nombre de usuario ingresado
password	el password ingresado

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