TP SSOO KernelCrafters

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Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

t_buffer			 	 	 Ę
t_packet			 	 	 Ę
t process	conection	args .	 	 	 ŗ

2 Data Structure Index

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

entradasalida/include/ main.h	
kernel/include/ main.h	??
memoria/include/main.h	
Main.h from memoria	7
utils/include/comunication.h	
utils/include/ configs.h	??
utils/include/ logger.h	??
utils/include/ opcode.h	
utils/include/protocol.h	
Network Protocol Connection Functions	7
utils/include/sockets.h	
Socket Connection Functions	11
utils/include/ utils.h	??

File Index

Data Structure Documentation

3.1 t_buffer Struct Reference

Data Fields

- int size
- void * stream

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

• utils/include/protocol.h

3.2 t_packet Struct Reference

Collaboration diagram for t_packet:

Data Fields

- op_code code
- t_buffer * buffer

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

• utils/include/protocol.h

3.3 t_process_conection_args Struct Reference

Data Fields

- t_log * logger
- int fd
- char * server_name

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

• utils/include/comunication.h

File Documentation

4.1 memoria/include/main.h File Reference

```
main.h from memoria
```

```
#include "../include/utils.h"
Include dependency graph for main.h:
```

4.2 utils/include/protocol.h File Reference

Network Protocol Connection Functions.

```
#include "opcode.h"
#include <assert.h>
#include <commons/collections/list.h>
#include <commons/log.h>
#include <netdb.h>
#include <signal.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
#include <unistd.h>
```

Include dependency graph for protocol.h: This graph shows which files directly or indirectly include this file:

Data Structures

- struct t_buffer
- struct t_packet

Functions

```
• t buffer * create buffer ()
      Create a buffer object.
• t_packet * create_packet (op_code code, t_buffer *buffer)
      Create a packet object.

    void add_to_packet (t_packet *packet, void *stream, int size)

      Add the buffer to the packet.

    void * serialize_packet (t_packet *packet, int buffer_size)

      Serialize the packet.
void destroy_packet (t_packet *packet)
      Destroy the packet object.

    void send_packet (t_packet *packet, int client_socket)

      Send the packet to the server.
t_list * fetch_packet (int client_socket)
      Fetch the packet from the client.
void * fetch_buffer (int *size, int client_socket)
int fetch_codop (int client_socket)
      Fetch code operation from client.
```

4.2.1 Detailed Description

```
Network Protocol Connection Functions.
```

Author

```
KernelCrafters ( you@domain.com)
```

Version

1.0

Date

2024-04-16

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4.2.2 Function Documentation

4.2.2.1 add_to_packet()

Add the buffer to the packet.

Parameters

packet	
stream	
size	

4.2.2.2 create_buffer()

```
t_buffer* create_buffer ( )
```

Create a buffer object.

Returns

t_buffer*

Implementar stream

4.2.2.3 create_packet()

Create a packet object.

Parameters



Returns

t_packet*

4.2.2.4 destroy_packet()

Destroy the packet object.

Parameters

packet

4.2.2.5 fetch_codop()

Fetch code operation from client.

Parameters

client_socket

Returns

int

4.2.2.6 fetch_packet()

Fetch the packet from the client.

Parameters

client_socket

Returns

t_list*

4.2.2.7 send_packet()

Send the packet to the server.

Parameters

packet	
client_socket	

4.2.2.8 serialize_packet()

Serialize the packet.

Parameters

packet	
buffer_size	

Returns

void*

4.3 utils/include/sockets.h File Reference

Socket Connection Functions.

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/socket.h>
#include <unistd.h>
#include <netdb.h>
#include <commons/log.h>
#include <commons/collections/list.h>
#include <string.h>
#include <assert.h>
#include <pthread.h>
```

Include dependency graph for sockets.h: This graph shows which files directly or indirectly include this file:

Functions

int create_conection (t_log *logger, char *ip, char *port)

Create conection with server.

• void close_conection (int *client_socket)

Close conection with server.

- int initialize_server (t_log *logger, const char *name, char *ip, char *port)
- int wait_client (t_log *logger, const char *name, int server_socket)
- int wait_client_threaded (t_log *logger, const char *name, int server_socket, void *(*serve_client))

4.3.1 Detailed Description

Socket Connection Functions.

Author

```
KernelCrafters ( you@domain.com)
```

Version

1.0

Date

2024-04-16

Copyright

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4.3.2 Function Documentation

4.3.2.1 close_conection()

Close conection with server.

Parameters

```
client_socket | client_fd to close connection
```

4.3.2.2 create_conection()

Create conection with server.

Parameters

logger	Logger from commons libraries
ip	ip to connect
port	Port to connect

Returns

int Return client_socket

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