

CSI udp to server

v1.0

Generated by Doxygen 1.8.8

Wed Jun 28 2017 05:26:45

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Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

COMPLEX	5
csi_struct	5

Chapter 2

File Index

2.1 File List

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

/home/shuspieler/Atheros-CSI-Tool-UserSpace-APP/recvCSI-with-socket/	csi_fun.h	??
/home/shuspieler/Atheros-CSI-Tool-UserSpace-APP/recvCSI-with-socket/	udp.c	7

Chapter 3

Data Structure Documentation

3.1 COMPLEX Struct Reference

Data Fields

- int **real**
- int **imag**

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

- /home/shuspieler/Atheros-CSI-Tool-UserSpace-APP/recvCSI-with-socket/csi_fun.h

3.2 csi_struct Struct Reference

Data Fields

- u_int64_t **tstamp**
- u_int16_t **channel**
- u_int8_t **chanBW**
- u_int8_t **rate**
- u_int8_t **nr**
- u_int8_t **nc**
- u_int8_t **num_tones**
- u_int8_t **noise**
- u_int8_t **phyerr**
- u_int8_t **rsi**
- u_int8_t **rsi_0**
- u_int8_t **rsi_1**
- u_int8_t **rsi_2**
- u_int16_t **payload_len**
- u_int16_t **csi_len**
- u_int16_t **buf_len**

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

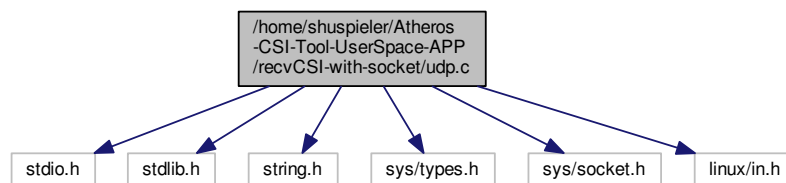
- /home/shuspieler/Atheros-CSI-Tool-UserSpace-APP/recvCSI-with-socket/csi_fun.h

Chapter 4

File Documentation

4.1 /home/shuspieler/Atheros-CSI-Tool-UserSpace-APP/recvCSI-with-socket/udp.c File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <linux/in.h>
Include dependency graph for udp.c:
```



Functions

- int `init_udp` (const char *strptr, unsigned short portnum)
- int `close_udp` (int cfd)

4.1.1 Detailed Description

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transmit the collected CSI to a server through UDP

Version

1.0

Author

Shu

Date

Juni,2017

4.1.2 Function Documentation**4.1.2.1 int close_udp (int *cfd*)**

close socket after use

Parameters

<i>cfd</i>	handle of socket
------------	------------------

4.1.2.2 int init_udp (const char * *strptr*, unsigned short *portnum*)

this function will initialize the socket which use udp protocol

Parameters

<i>strptr</i>	parameter for ip address of the server, which should be a 15 bit char array or simply like this: const char strptr[] = "192.168.199.120"
<i>portnum</i>	port number of the server eg: unsigned short portnum = 0x1031

Returns

if the socket_init is ok, it will the return the handle of the socket if something wrong, it will return -1 and print a message