Ultitbo UDPSERVER running a RPi4 Sending a message to RPi4 running Linux on UDP port 514 06/06/21

Original code was found at

https://github.com/ultibohub/Examples/tree/master/Advanced/UDPServer/RPi2

```
gcc server.c -o server
server.c: In function 'main':
server.c:68:5: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-
function-declaration]
    close(s);
    ^~~~~
    pclose
Lazarus IDE (Ultibo Edition)
```

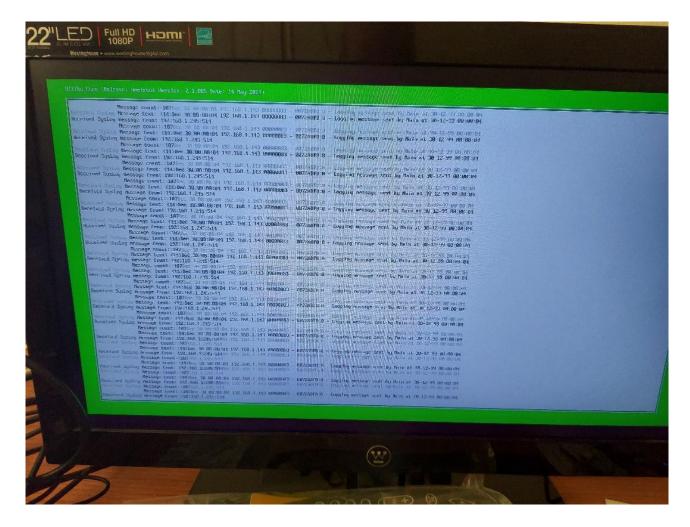
Run/Compile

The green bar indicates that the kernel7l.img was successfully created.

tftp 192.168.1.143 < cmdstftp tftp> tftp> Sent 2672408 bytes in 5.3 seconds

sudo ./server[sudo] password for devel:Waiting for data...

```
File Edit Tabs Help
Data: <30>Jun 07 00:52:24 192.168.1.143 Services: 0000007D - 00A7E0C0:3 - Servic
es: NTP: Setting time to 7-6-21 00:52:24 (from 30-12-99 00:00:03)
Waiting for data...Received packet from 192.168.1.143:514
Data: <30>Jun 07 00:52:24 192.168.1.143 Services: 0000007D - 00A7E0C0:3 - Servic
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Waiting for data...
```



```
server.c
```

```
/*
Simple udp server
*/
#include<stdio.h> //printf
#include<stdib.h> //exit(0);
#include<arpa/inet.h>
#include<sys/socket.h>

#define BUFLEN 1024 //Max length of buffer
#define PORT 514 //The port on which to listen for incoming data

void die(char *s)
{
    perror(s);
    exit(1);
}

int main(void)
{
    struct sockaddr_in si_me, si_other;
```

```
int s, i, slen = sizeof(si_other), recv_len;
  char buf[BUFLEN];
  //create a UDP socket
  if ((s=socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP)) == -1)
    die("socket");
  // zero out the structure
  memset((char *) &si_me, 0, sizeof(si_me));
  si_me.sin_family = AF_INET;
  si_me.sin_port = htons(PORT);
  si_me.sin_addr.s_addr = htonl(INADDR_ANY);
  //bind socket to port
  if( bind(s, (struct sockaddr*)&si_me, sizeof(si_me) ) == -1)
    die("bind");
  //keep listening for data
  while(1)
    printf("Waiting for data...");
    fflush(stdout);
    //try to receive some data, this is a blocking call
    if ((recv_len = recvfrom(s, buf, BUFLEN, 0, (struct sockaddr *) &si_other, &slen)) == -1)
     {
       die("recvfrom()");
    //print details of the client/peer and the data received
    printf("Received packet from %s:%d\n", inet_ntoa(si_other.sin_addr),
ntohs(si_other.sin_port));
    printf("Data: %s\n" , buf);
    //now reply the client with the same data
    if (sendto(s, buf, recv_len, 0, (struct sockaddr*) &si_other, slen) == -1)
       die("sendto()");
  }
  close(s);
  return 0;
```