

Run the echo server and echo client:

Step 0: Connect to WPI VPN, if you are off campus.

Step 1: Upload both echoclient.c and echoserver.c to linux.wpi.edu

Step 2: Open two terminals (one terminal for the server, and the other one is for the client)
On the echo server terminal, run *ifconfig* to find the *server_ip_address* of your server.

Step 3: On the Terminal for echo server:

Compile the echo server file by run the following command line with a output file echoserver:

```
gcc echoserver.c -o echoserver
run the server by
./echoserver 6667
```

You can replace 6667 with your favorite port number. Better to choose a port number larger than 5000. Now the echo server is running, i.e., listening the network, and waiting for clients.

Step 4: On the Terminal for echo client:

Compile the echo client file by run the following command line with a output file echoclient:

```
gcc echoclient.c -o echoclient
```

Now your are ready to talk to the server, by running the following command line

```
./echoclient server_ip_address hello 6667
```

The port number e.g., 6667, should match the port number when running your server.

The *server_ip_address* is ip address you obtained from step 2.

Hello is the message, you'd like to send to the server. Of course you can change it to other messages.

Now, you should see a received message from the echo server shown on both the server terminal and the client terminal. Done.

This echo server/client is a simplified version of project 1. Please run and understand this example code. Then think of how you can update this to implement a HTTP server/client for your project 1.