Test Document A00907822 Moon Eunwon

Test No	Description	Test	Expected result	Pass/Fail	Actual Result
1	Select Menu [SERVER and CLIENT]	Select 'SERVER' and CLIENT radio Button	 SERVER MODE Lock the IP address, packet size, number of packet and Sendfile input CLIENT MODE Unlocked those filed 	Pass (Figure 1,2)	- Check 'SERVER' Open only TCP/IP radio And PORT input - check 'CLIENT' unclock all input field
2	Connect [SERVER] mode	Select 'SERVER' and press CONNECT	 Display SERVER mode message Waiting without closing message Lock the SERVER/CLIENT radio button 	Pass (Figure 1)	check 'SERVER'get only 'START SERVER port 7000' message
3	Connect [CLIENT] mode without server	Select 'CLIENT' and press CONNECT Without Server start	Check radio button'Client'.Error message displayed	Pass (Figure 3)	- Display Client mode with ip and port - Error message
4	Connect [CLIENT] mode to server	Open SERVER side Select 'CLIENT' and press CONNECT	Check radio button 'Client'.Get Send information after for a while	Pass (Figure 2)	 Check radio button (Client'. Get Send information which is the number of times, send each packet size, and total packet size
5	Connect [CLIENT] and send file	Open SERVER side Select 'CLIENT' and press 'File Transfer'.	Open CLIENT modeSend result of file: Each packet size, and total packet size	Pass (Figure 4)	Display Client message with IP and Port.Send file resultSEND SIZE 1000, TOTAL
6	Connect [SERVER] and send message from client in TCP mode	Open Both in TCP mode Send packet Size 40000, 1000 times	Open in SERVER modeReceive 4000000 bytesAnd display times and speed of sending	Pass (Figure 5)	 Display Server Conn message Get Message 'recv data total 4000000, times 429468.00 us, speed 93.14 Mb/s

Test No	Description	Test	Expected result	Pass/Fail	Actual Result
7	Connect [SERVER] and send message From client In UDP mode	Open Both in UDP mode Send packet Size 40000, 1000 times	 Open in SERVER mode Receive 4000000 bytes or loss a bit And display times and speed of sending 	Pass (Figure 5)	- Display Server Conn message - Get Message 'recv data total 3836000, times 391032.00 us, speed 98.00 Mb/s
8	Connect [SERVER] and send message from client in TCP mode	Open Both in TCP mode Send packet Size 1024, 100 times	Open in SERVER modeReceive 102400 bytesAnd display times and speed of sending	Pass (Figure 6)	 Display Server Conn message Get Message 'recv data total 10240, times 1.00 us, speed 10240.00 Mb/s
9	Connect [SERVER] and send message from client in UDP mode	Open Both in UDP mode Send packet Size 1024, 10 times	 Open in SERVER mode Receive 102400 bytes or loss a bit And display times and speed of sending 	Pass (Figure 6)	 Display Server Conn message Get Message 'recv data total 499900000, times 4797882.00 us, speed 104.19 Mb/s
10	Connect different port in TCP mode	Server port 7000, Client port 4000 and connect	- Display error message in client	Pass (Figure 7)	- Display error message 10061
11	Connect different port in UDP mode	Server port 7000, Client port 4000 and connect	No error message in client sidejust finishing send data	Pass (Figure 7)	No error message in client sideNo receiving in server sideClient send all message
12	Send file size of around 150 MB in TCP	Send 150Mb file send in TCP mode	- Receive all file without losing information	Pass (Figure 8)	- Received all file without losing information
13	Send file size of 150 Mb in UDP	Send 150Mb file send in TCP mode	- Received file with some loss	Pass (Figure 8)	Received file but loss alot

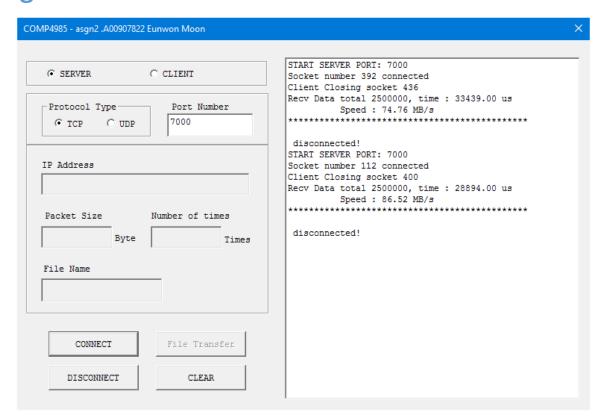
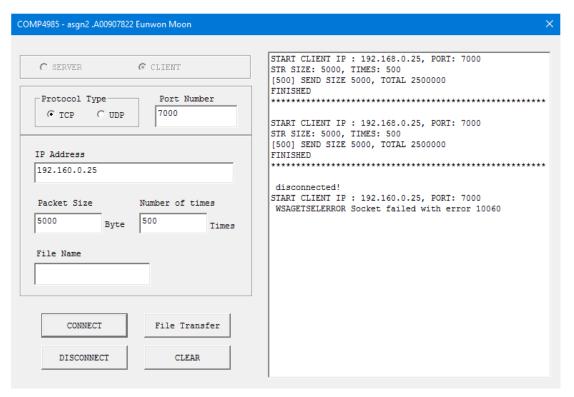


Figure 2



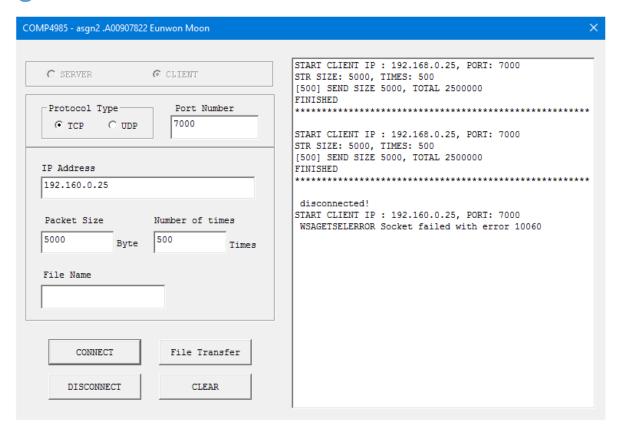
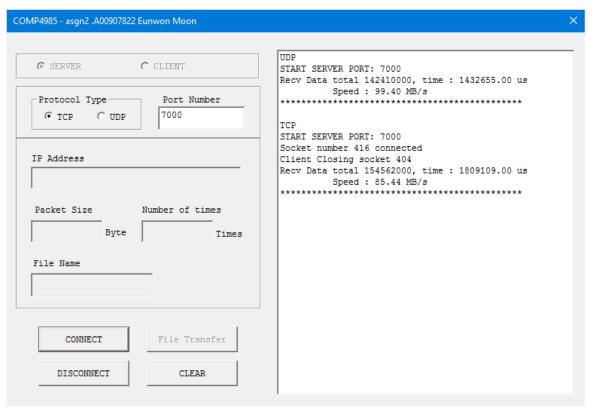


Figure 4

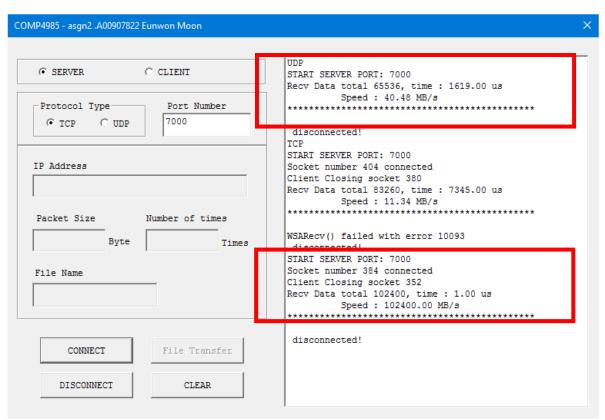


Sever File Transfer result in TCP UDP

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€ SERVER € CLIENT	START SERVER PORT: 7000 Recv Data total 38360000, time: 391032.00 us
Protocol Type Port Number 7000	TCP disconnected! START SERVER PORT: 7000
IP Address	Socket number 156 connected Client Closing socket 116 Recv Data total 40000000, time: 429468.00 us Speed: 93.14 MB/s
Packet Size Number of times Byte Times	
File Name	
CONNECT File Transfer	
DISCONNECT CLEAR	

TCP send 400K 1000times

Figure 6 - UDP receive



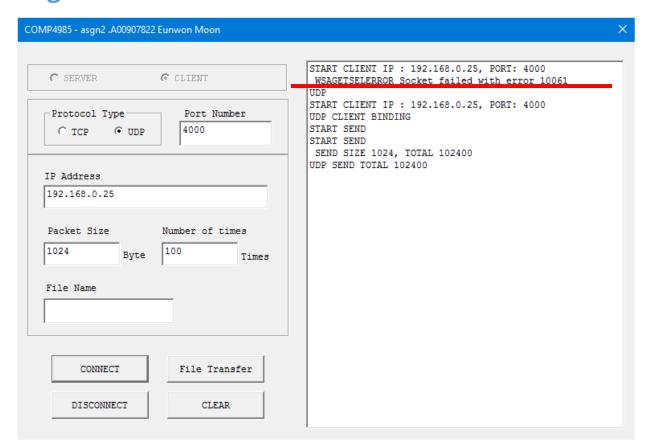


Figure 8

