

FILE TRANSFER/PROTOCOL ANALYSIS – TEST CASES

COMP 4985

ASSIGNMENT 2 – FILE TRANSFER/PROTOCOL ANALYSIS

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Test Summary

Below is a table containing the summary of each test case in this test document. Each row of the table contains the test number, description, test, expected output, and result. Details about each test case and screenshots can be found in the following pages.

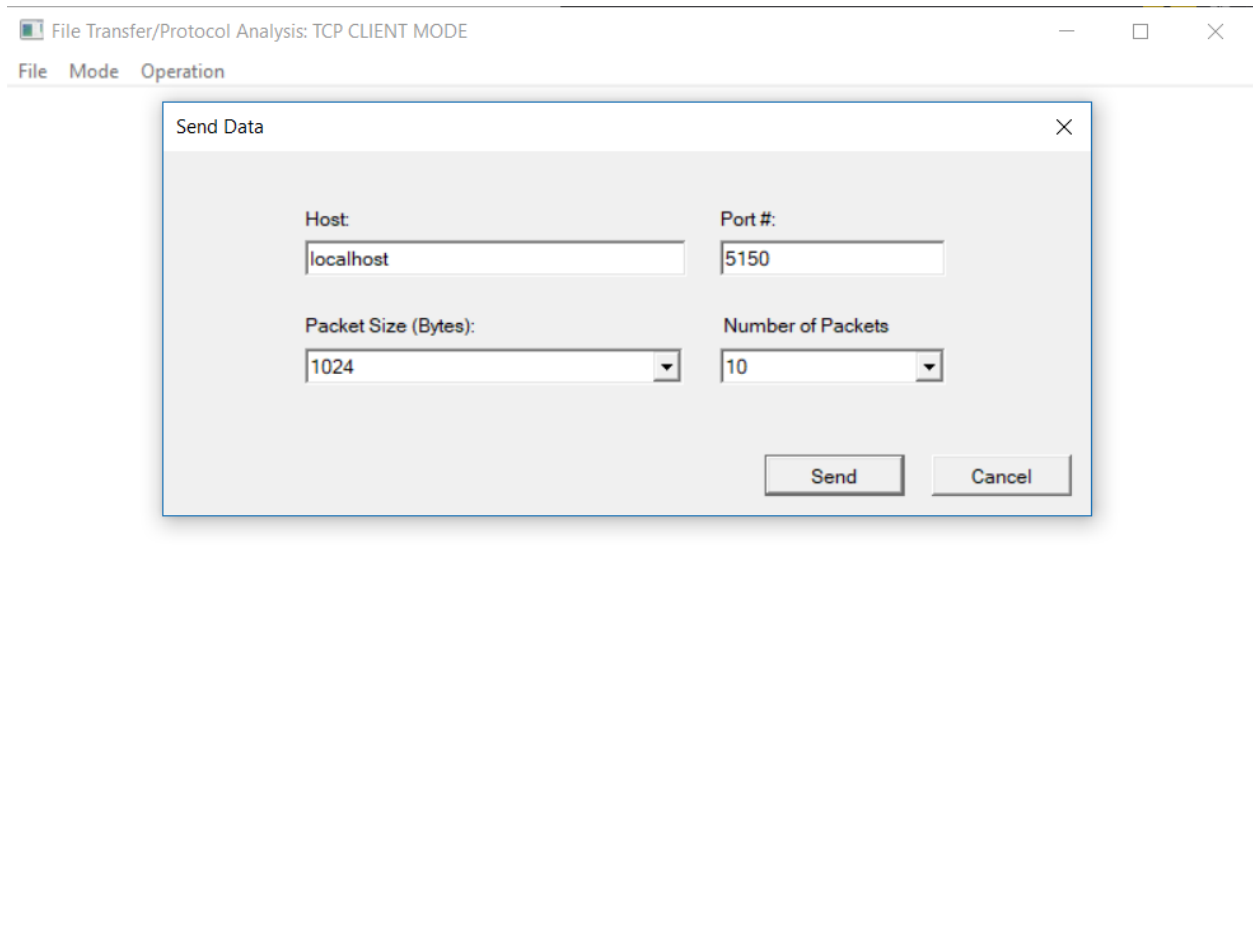
Test #	Description	Test	Expected Output	Result
1	Client side's Send Data Dialog Box is displayed with proper widgets	Click "Send Data" menu item	The program opens a Dialog Box containing client-side options	Passed
2	Server side's Start Server Dialog Box is displayed with proper widgets	Click "Start Server" menu item	The program opens a Dialog Box containing server-side options	Passed
3	Send a packet between a client and a server using the TCP protocol. In this test, choose a packet size of 1024 Bytes and 10 Packets to be sent	Send 10, 1024 Byte Packets via TCP	The server side's main window will show statistics of the data transfer. Bytes transferred should be 10240	Passed
4	Send a packet between a client and a server using the UDP protocol. In this test, choose a packet size of 1024 Bytes and 10 Packets to be sent	Send 10, 1024 Byte Packets via UDP	The server side's main window will show statistics of the data transfer. Bytes transferred should be 10240	Failed
5	Send data to a server that is not currently running.	Connect to a non-existent server	The program's main window will show that an error will occur when connecting to the server	Passed

Test 1 – Click “Send Data” menu item

Test Description: Client side’s Send Data Dialog Box is displayed with proper widgets

Expected Output: The program opens a Dialog Box containing client-side options

Result: **PASSED**

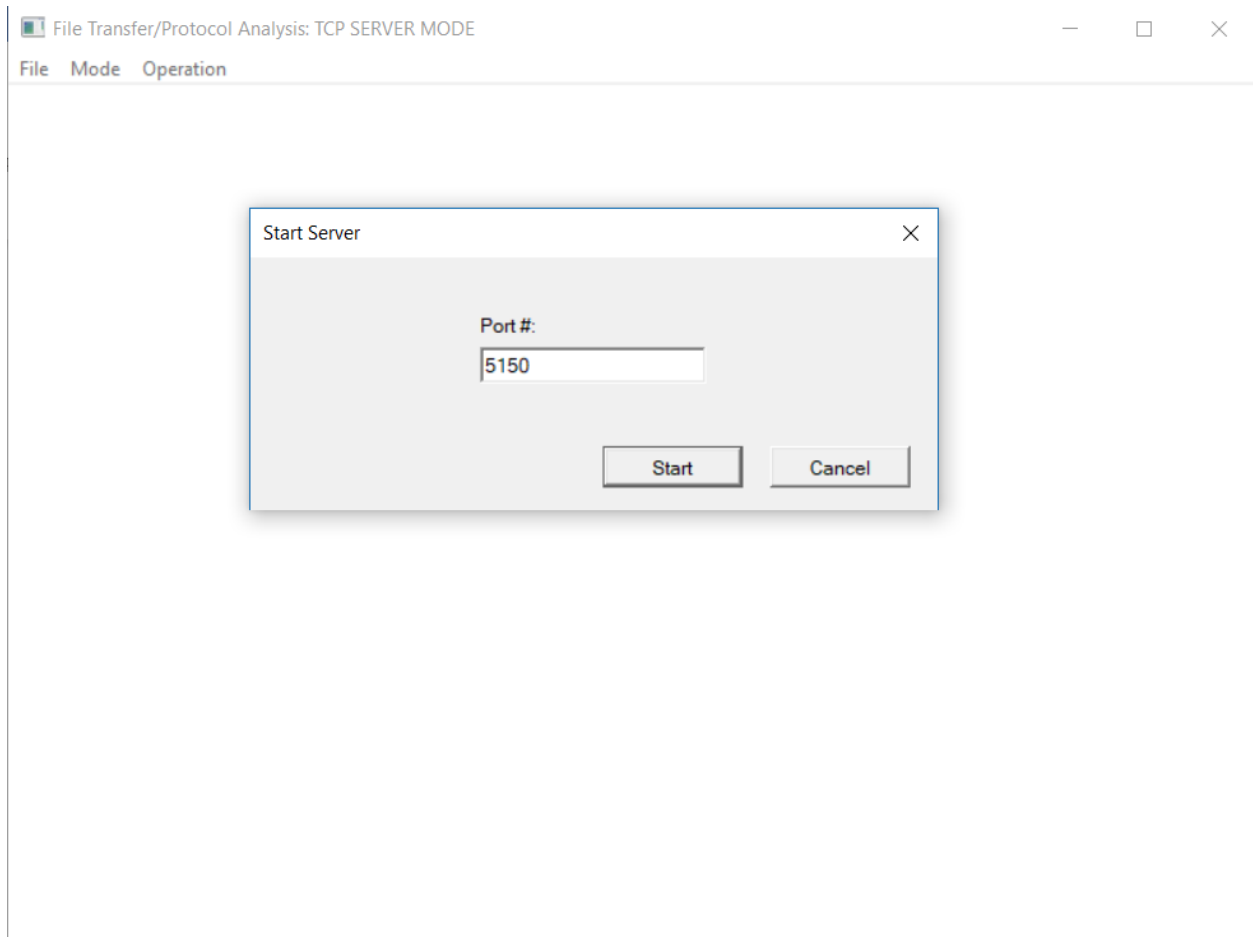


Test 2 – Click “Start Server” menu item

Test Description: Server side’s Start Server Dialog Box is displayed with proper widgets

Expected Output: The program opens a Dialog Box containing server-side options

Result: **PASSED**

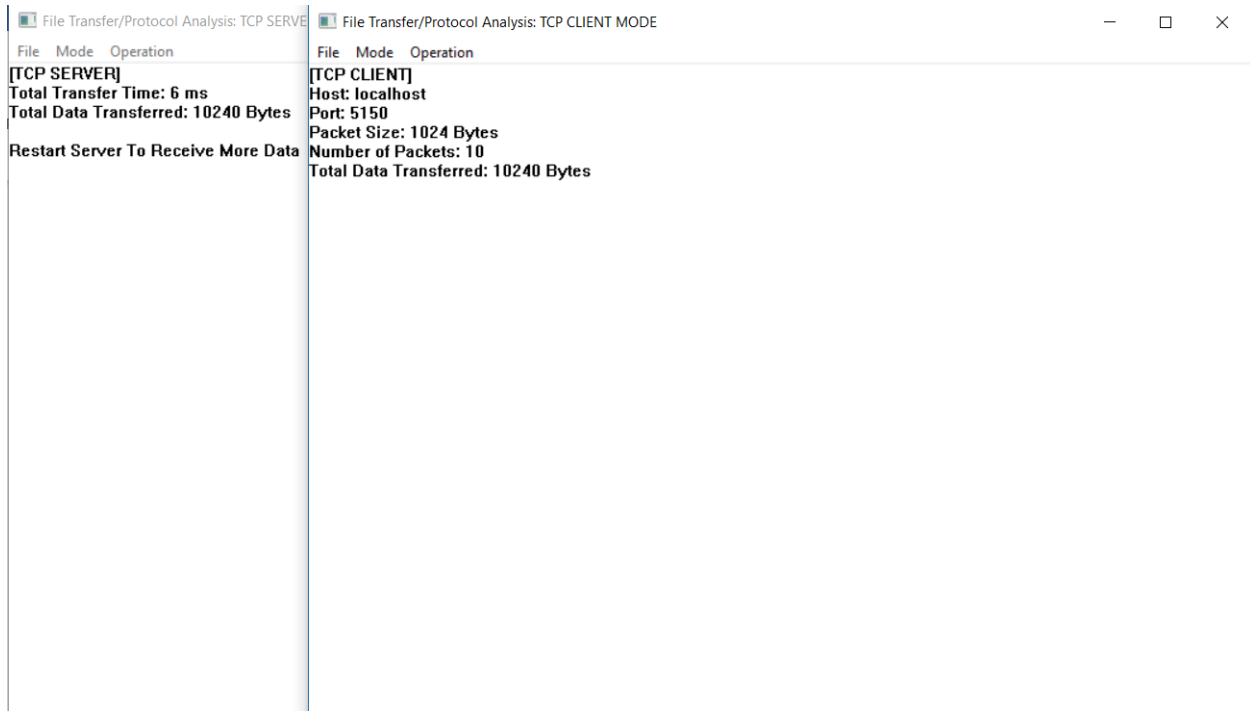


Test 3 – Send 10, 1024 Byte Packets via TCP

Test Description: Send a packet between a client and a server using the TCP protocol. In this test, choose a packet size of 1024 Bytes and 10 Packets to be sent.

Expected Output: The server side's main window will show statistics of the data transfer. Bytes transferred should be 10240.

Result: **PASSED**



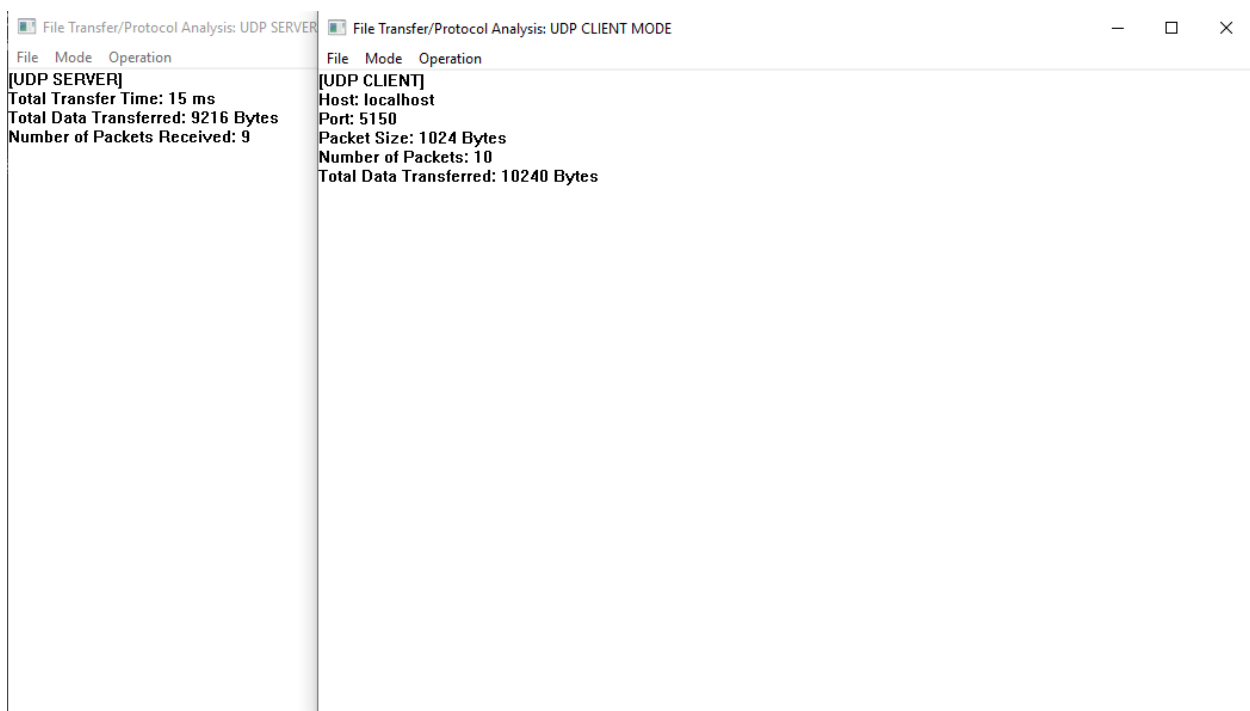
Test 4 – Send 10, 1024 Byte Packets via UDP

Test Description: Send a packet between a client and a server using the UDP protocol. In this test, choose a packet size of 1024 Bytes and 10 Packets to be sent

Expected Output: The server side's main window will show statistics of the data transfer. Bytes transferred should be 10240

Result: **FAILED**

Actual Output: A single packet was lost resulting in only receiving 9 packets and receiving a total of 9216 Bytes



Test 5 – Connect to a non-existent server

Test Description: Send data to a server that is not currently running.

Expected Output: The program's main window will show that an error will occur when connecting to the server.

Result: **PASSED**

