



# Mawlana Bhashani Science and Technology University

## Lab-Report

Report No: 05

Course code: ICT-4202

Course title: Wireless and Mobile Communication Lab

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### Submitted by

Name: Naznin Sultana

ID:IT-16036

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Session: 2015-2016

Dept. of ICT

MBSTU.

### Submitted To

Nazrul Islam

Assistant Professor

Dept. of ICT

MBSTU.

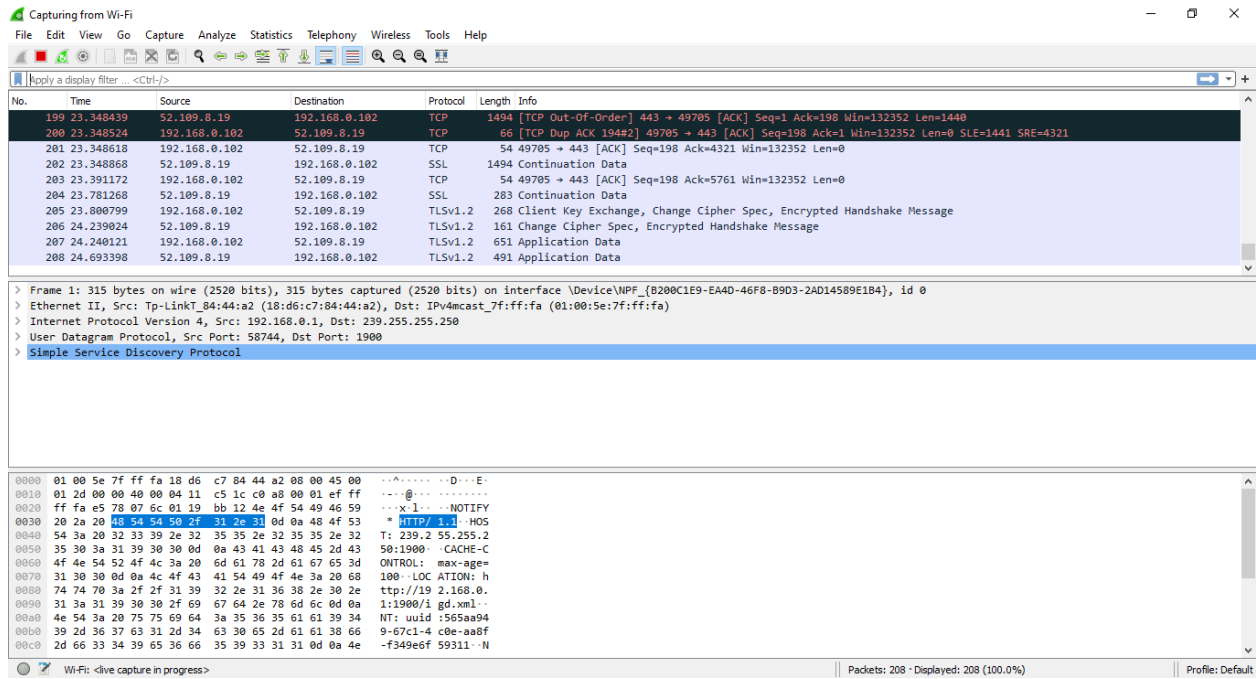
## Experiment N0: 05

**Experiment Name :** Comparative Analysis of Wired and Wireless data using Wireshark.

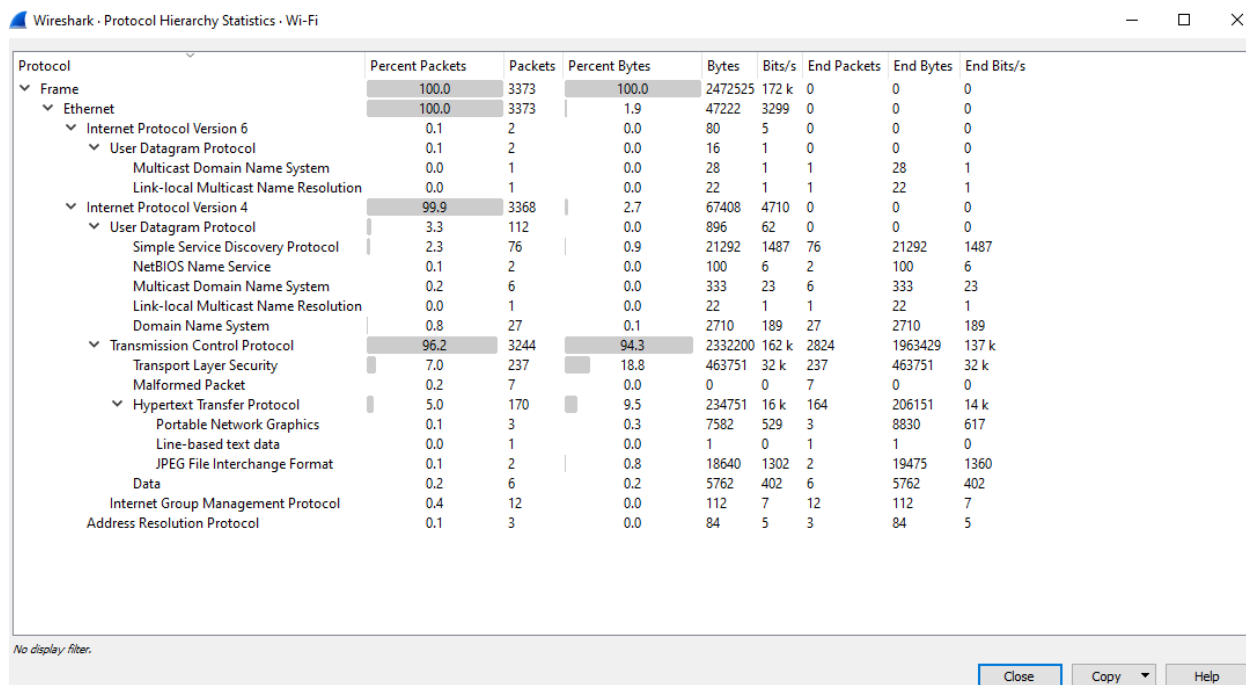
**Objective:** In this lab, we have to perform the following things for both wired and wireless connection:

1. Capture protocols at each TCP/IP Layer
2. Generate and record protocol hierarchy statistics for a session
3. Determine the packet length
4. Generate flow graph.
5. Generate I/O graph.
6. Generate IPv4 statistics for all addresses.

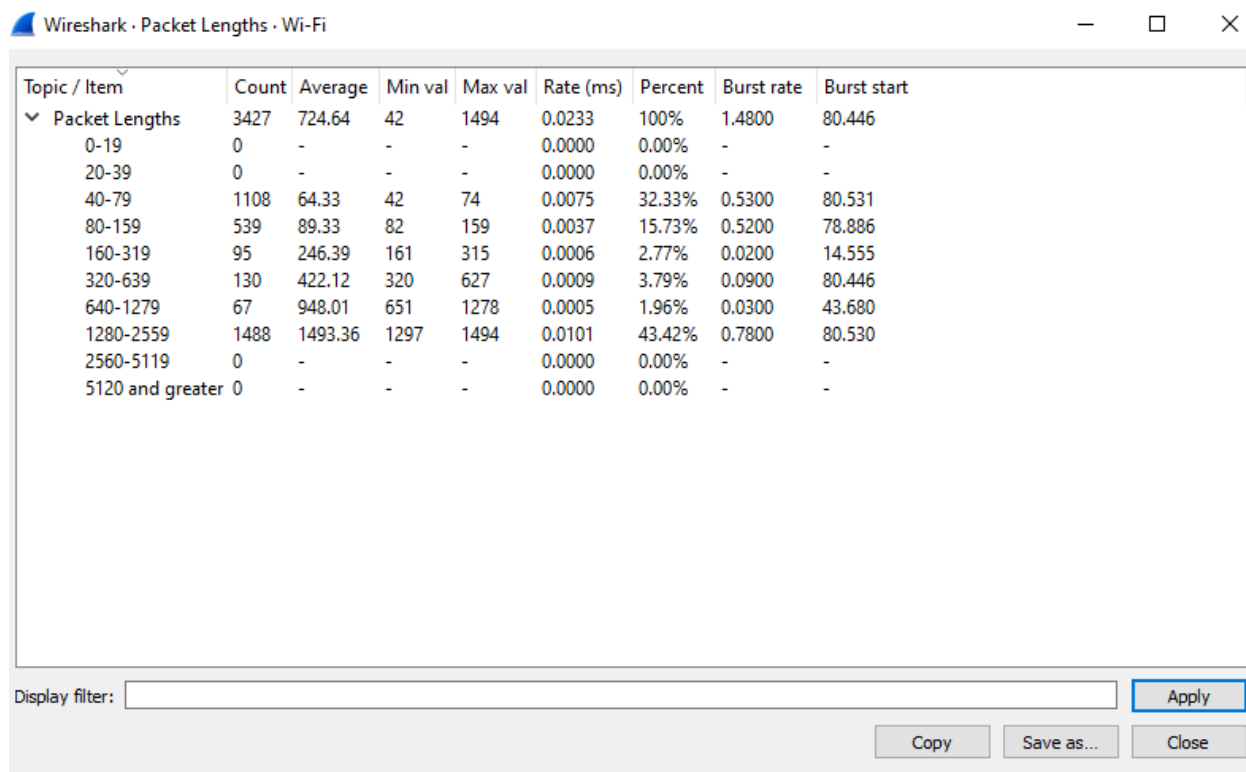
### For Wireless Connection:



**Figure-1: Capturing protocols at each TCP/IP Layer**



**Figure-2: Generating and record protocol hierarchy statistics for a session**



**Figure-3: Determining the packet length**

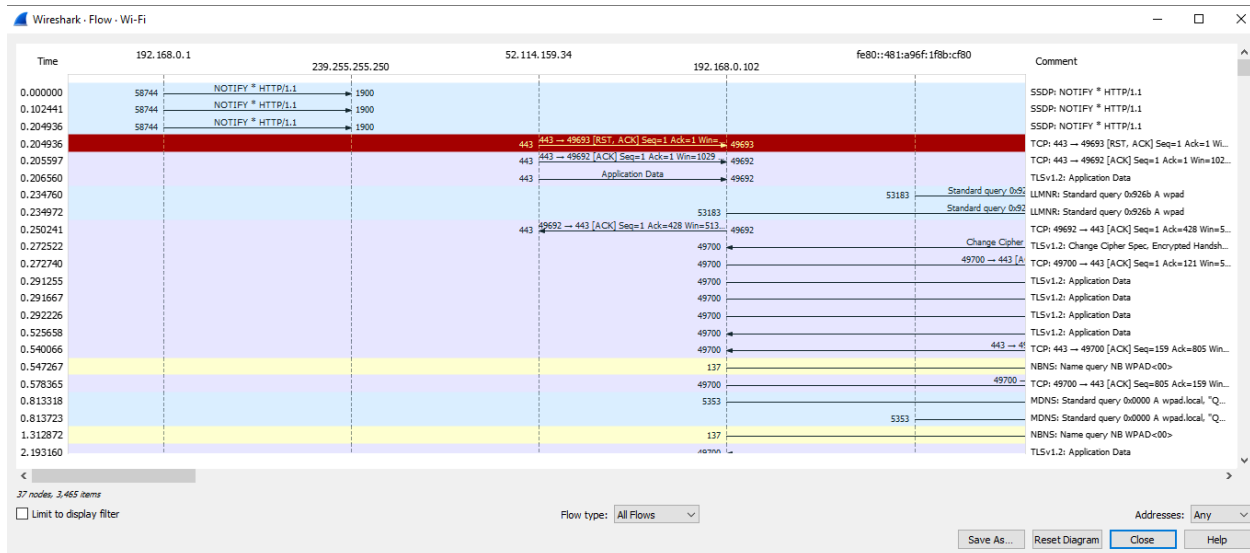


Figure-4: Generating flow graph.

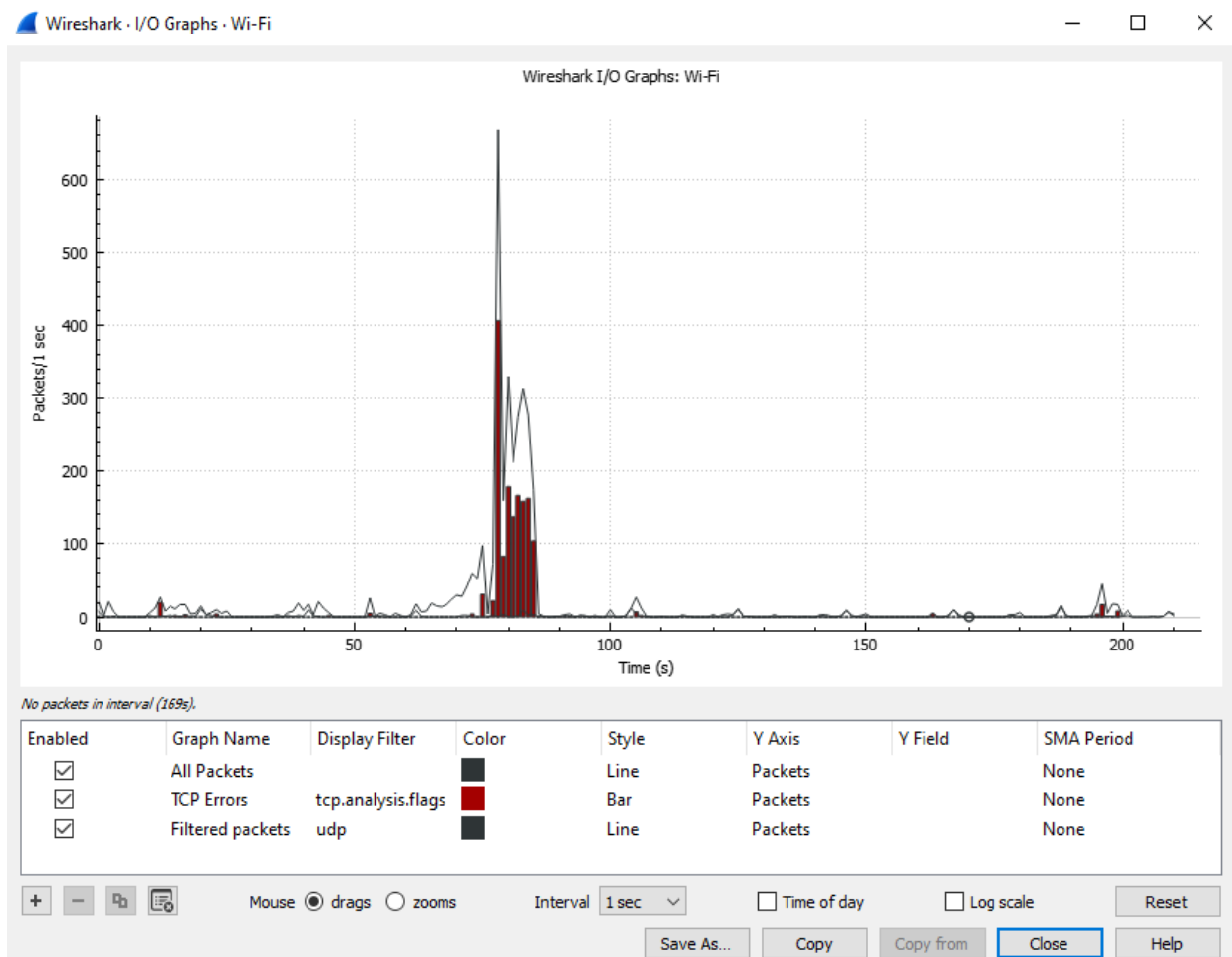


Figure-5: Generating I/O graph.

## For Wired Connection:

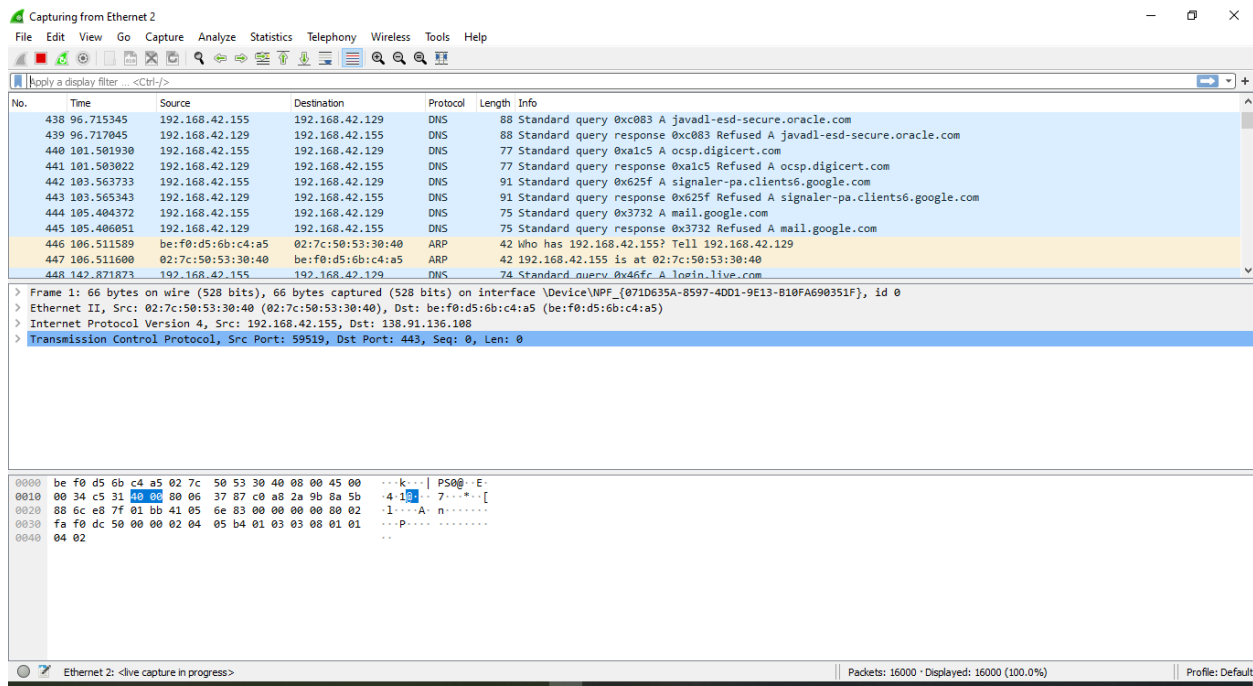


Figure-1: Capturing protocols at each TCP/IP Layer

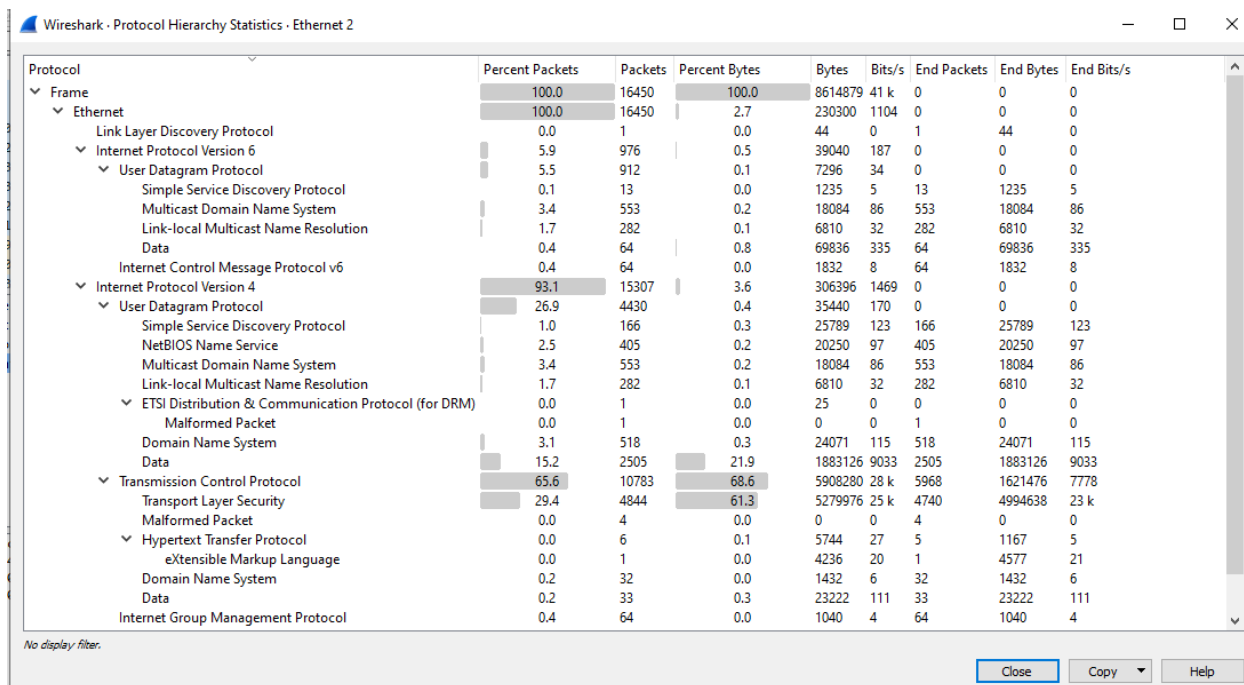
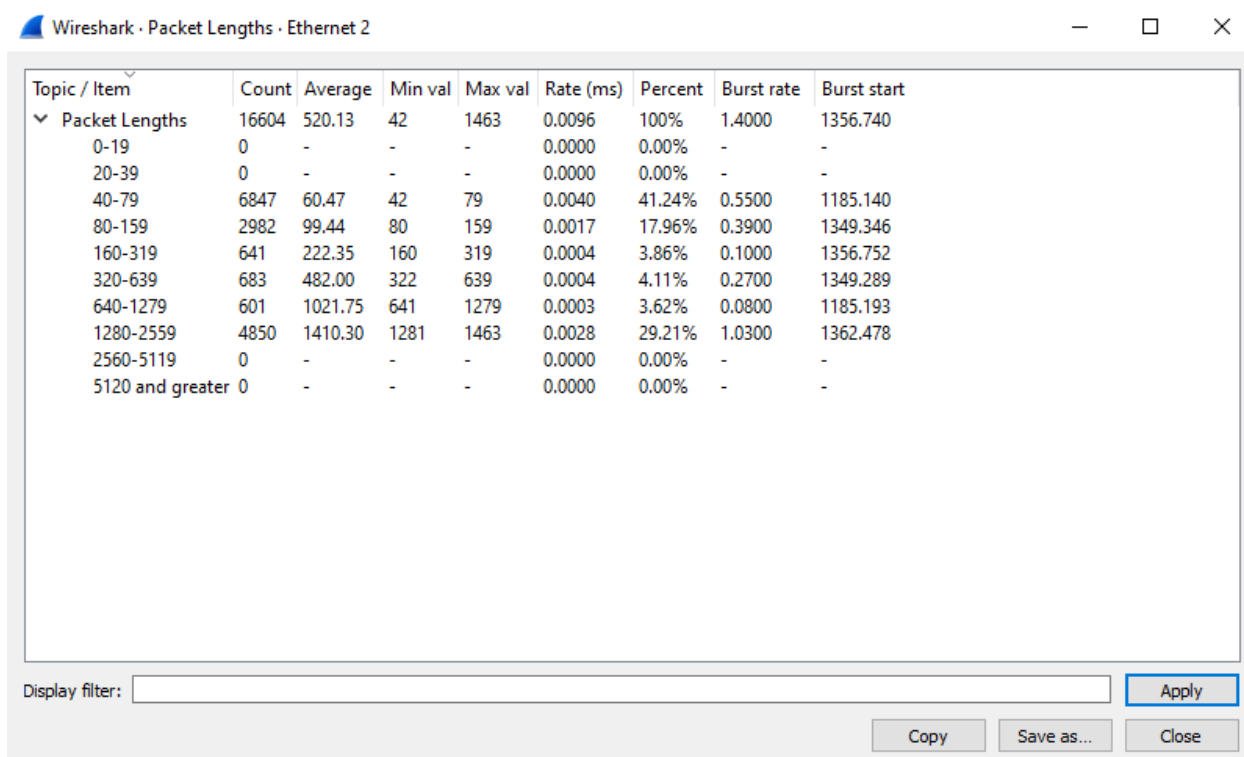
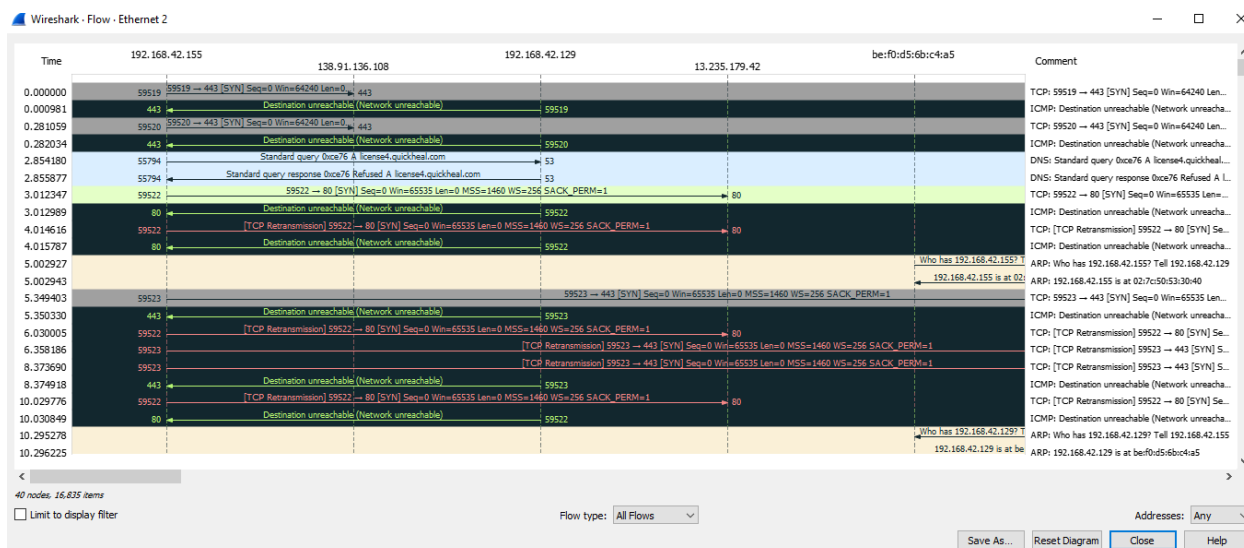


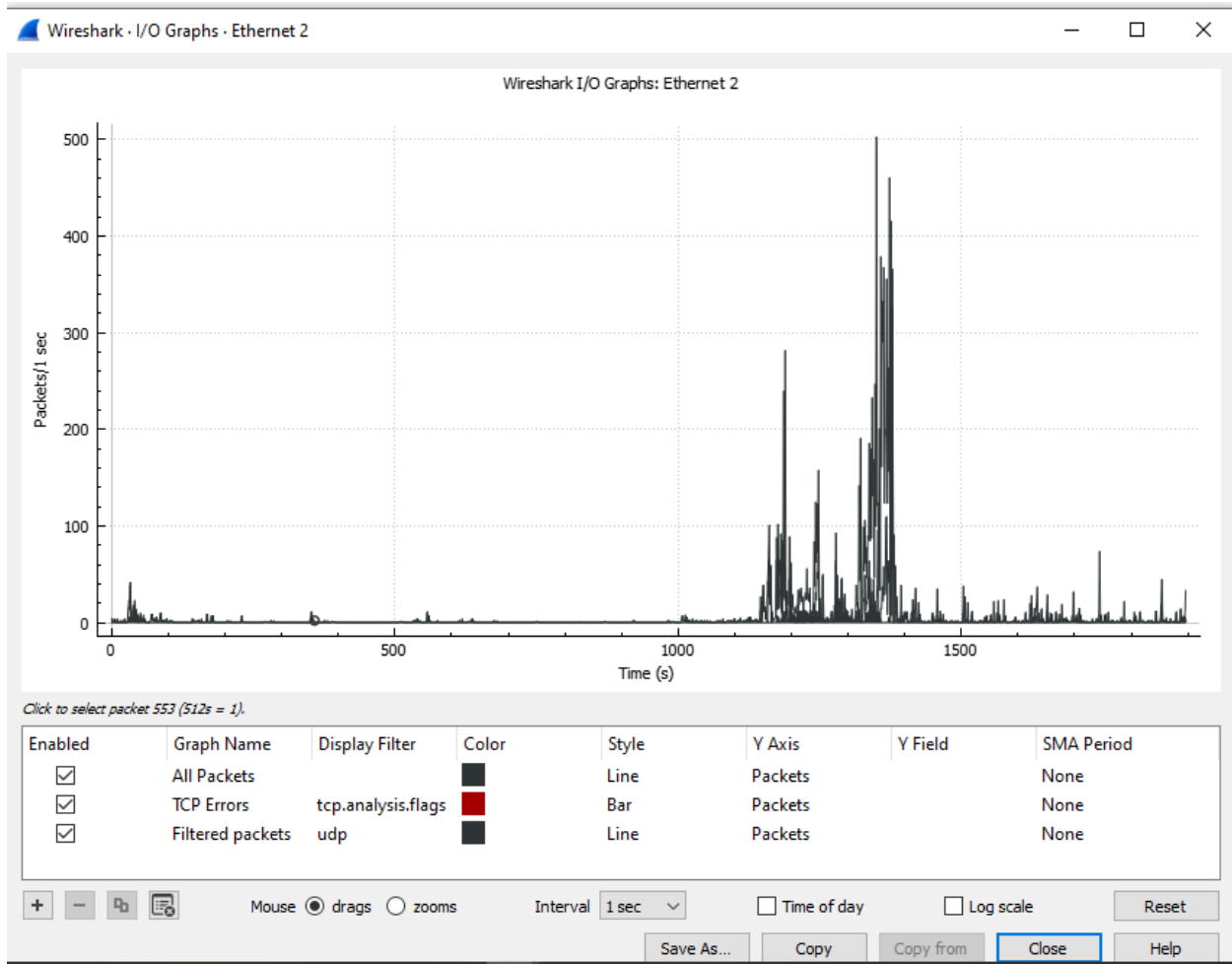
Figure-2: Generating protocol hierarchy statistics for a session



**Figure-3: Determining the packet length**



**Figure-4: Generating flow graph.**



**Figure-5: Generating I/O graph.**

### **Conclusion:**

We get different data for wired and wireless connection. Wired data packages transfer rate are very much smoother than Wireless. For this we first start captured data with Wireshark for both wired and wireless. After that we also generate the packet length, protocol hierarchy, flow graph and I/O graph for a particular session. We get different data for wired and wireless connection. In this lab, we learned about Comparative Analysis of Wired and Wireless data using Wireshark.