Mawlana Bhashani Science and Technology University

Lab-Report

Report No: 05

Course code: ICT-4202

Course title: Wireless and Mobile Communication Lab

Date of Performance: 18.09.2020

Date of Submission: 25.09.2020

Submitted by

Name: Wahia Tasnim

ID:IT-16029

4th year 2nd semester

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 connetction:

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.

For Wireless Connection:

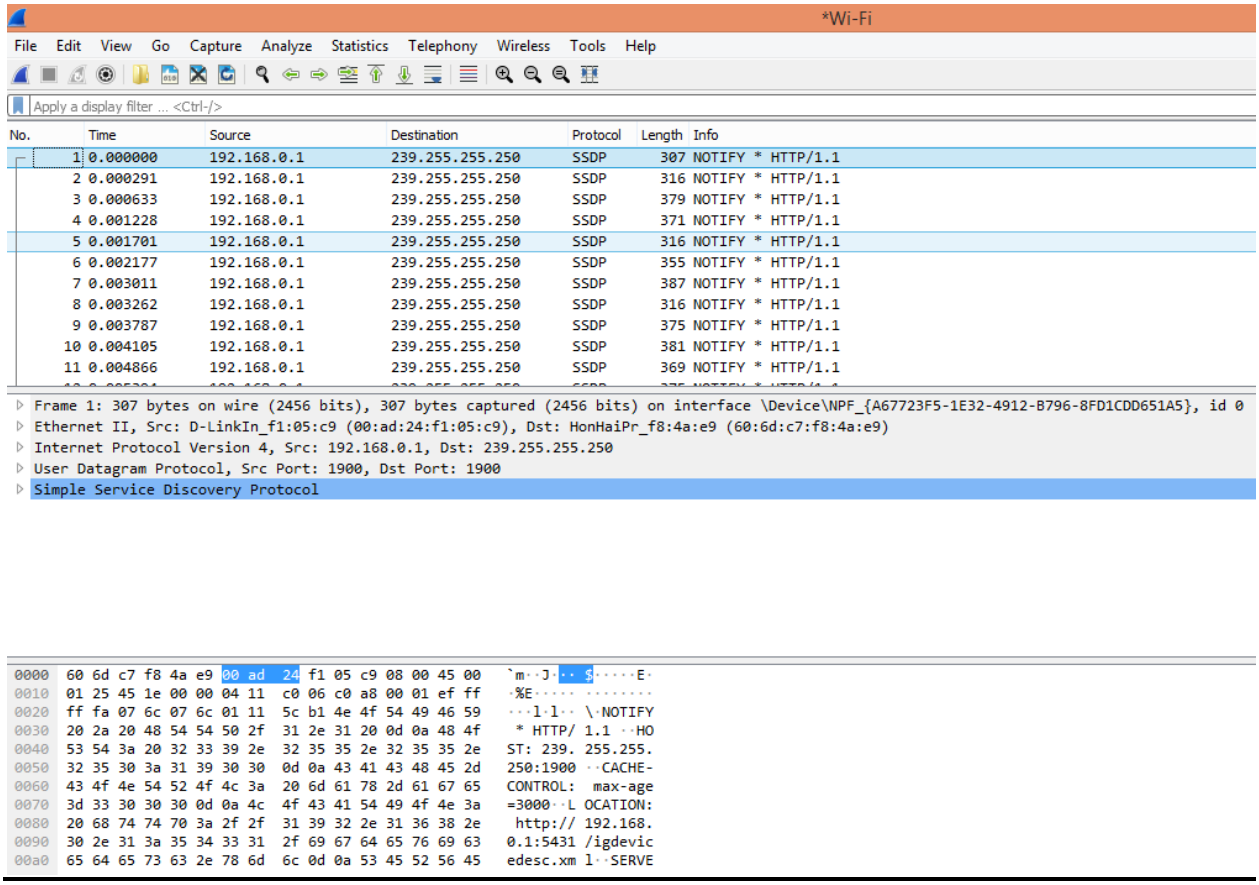

Figure-1: Capturing protocols at each TCP/IP Layer

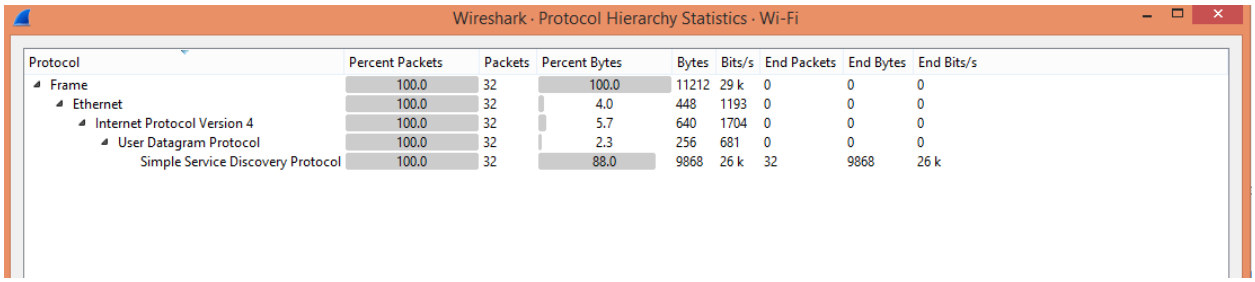

Figure-2: Generating protocol hierarchy statistics for a session

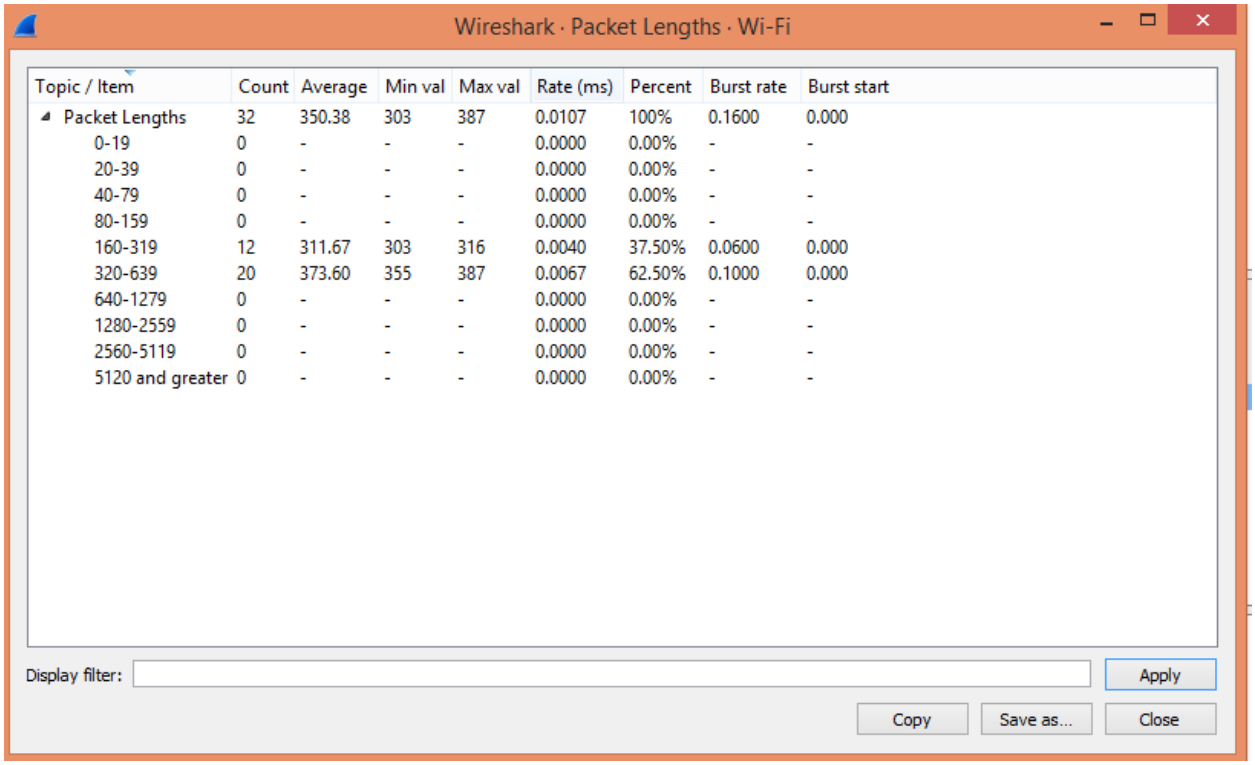

Figure-3: Determining the packet length

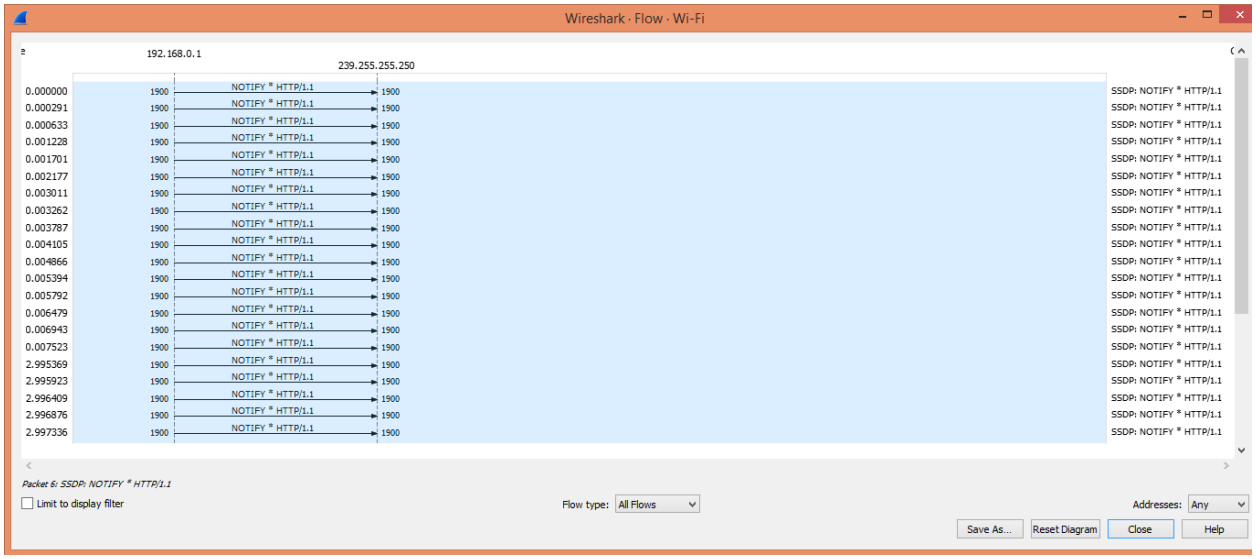

Figure-4: Generating flow graph.

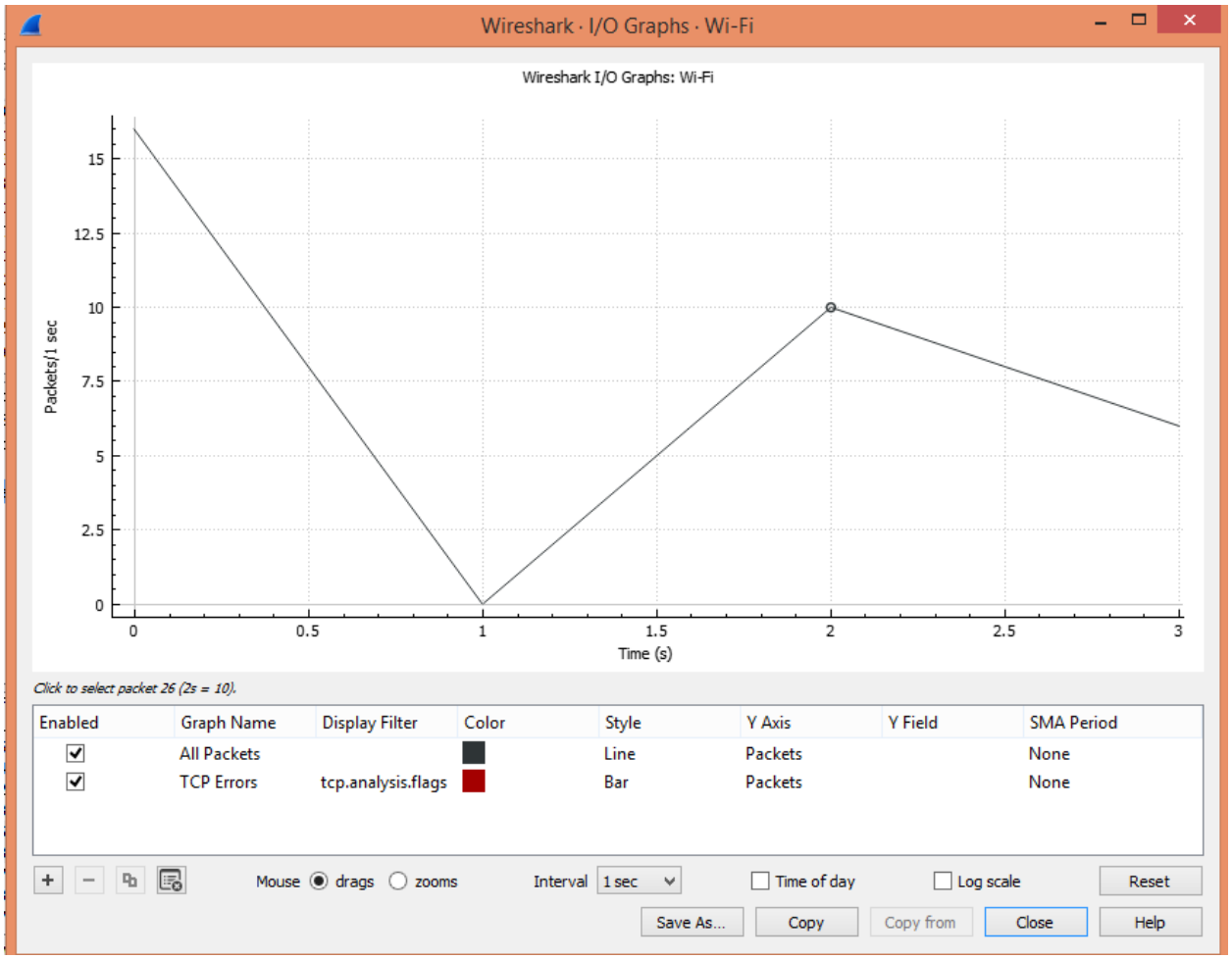

Figure-5: Generating I/O graph.

For Wired Connection:

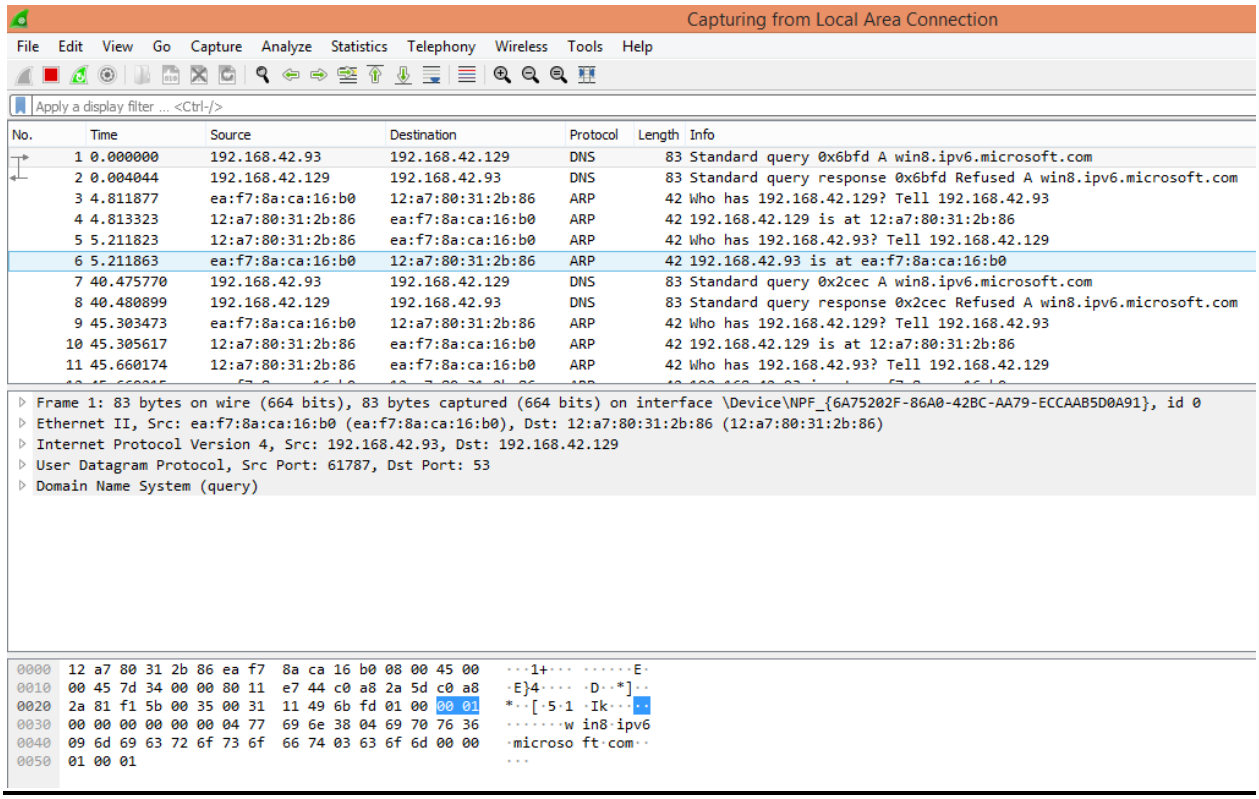

Figure-1: Capturing protocols at each TCP/IP Layer

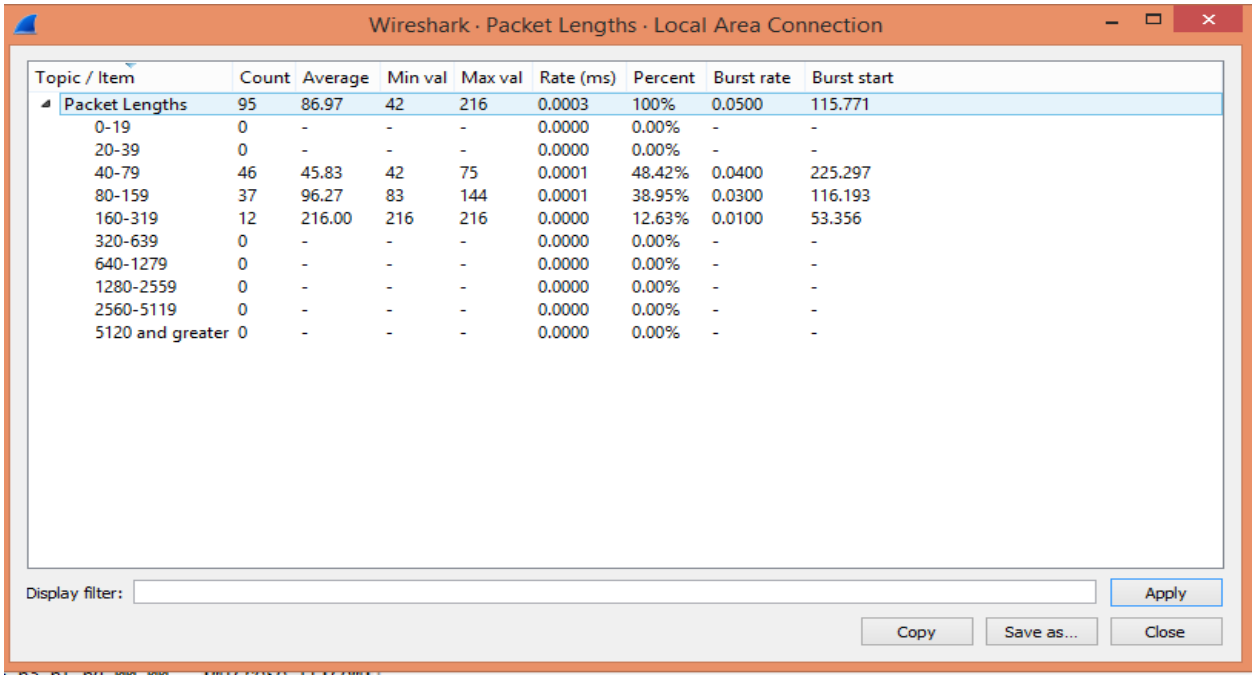

Figure-2: Generating protocol hierarchy statistics for a session

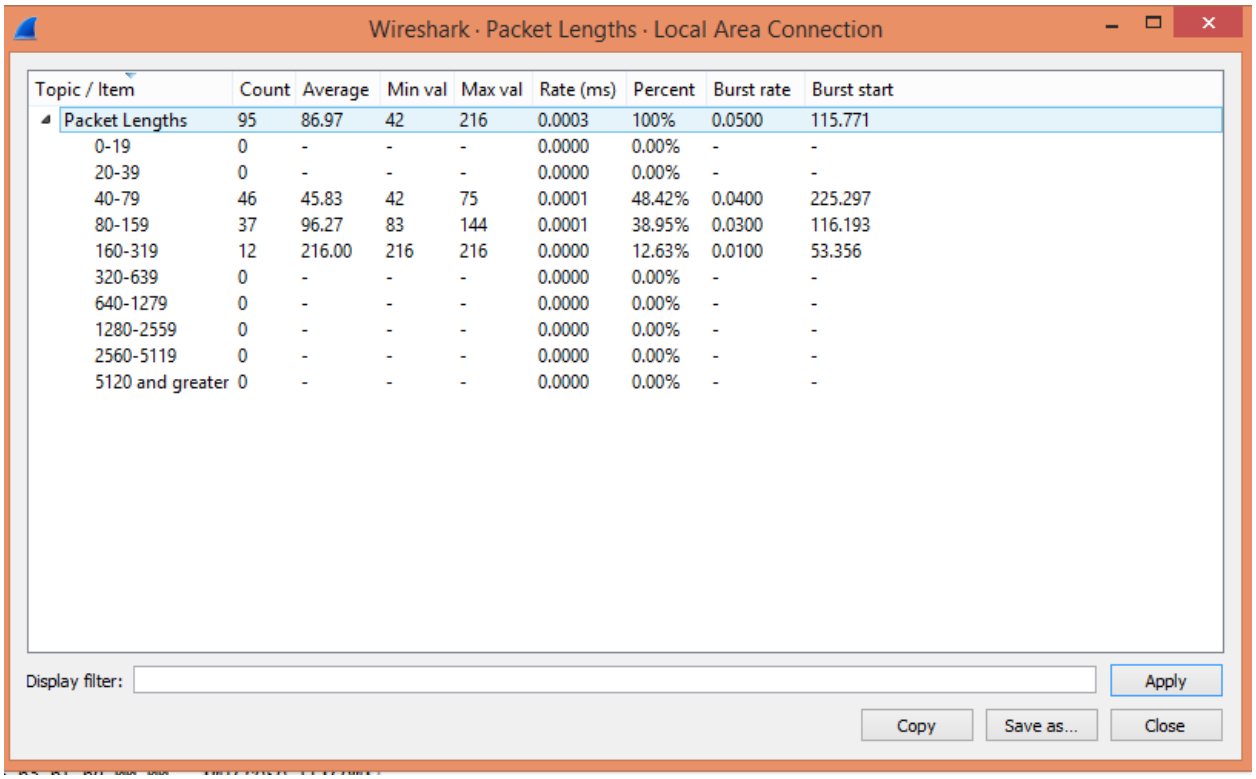

Figure-3: Determining the packet length

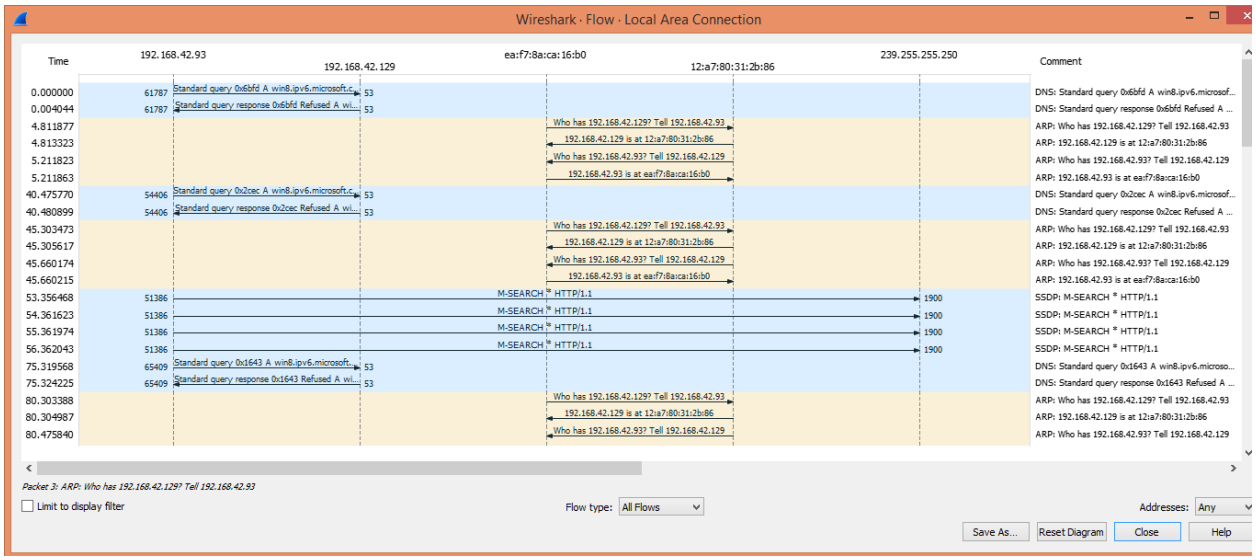

Figure-4: Generating flow graph.

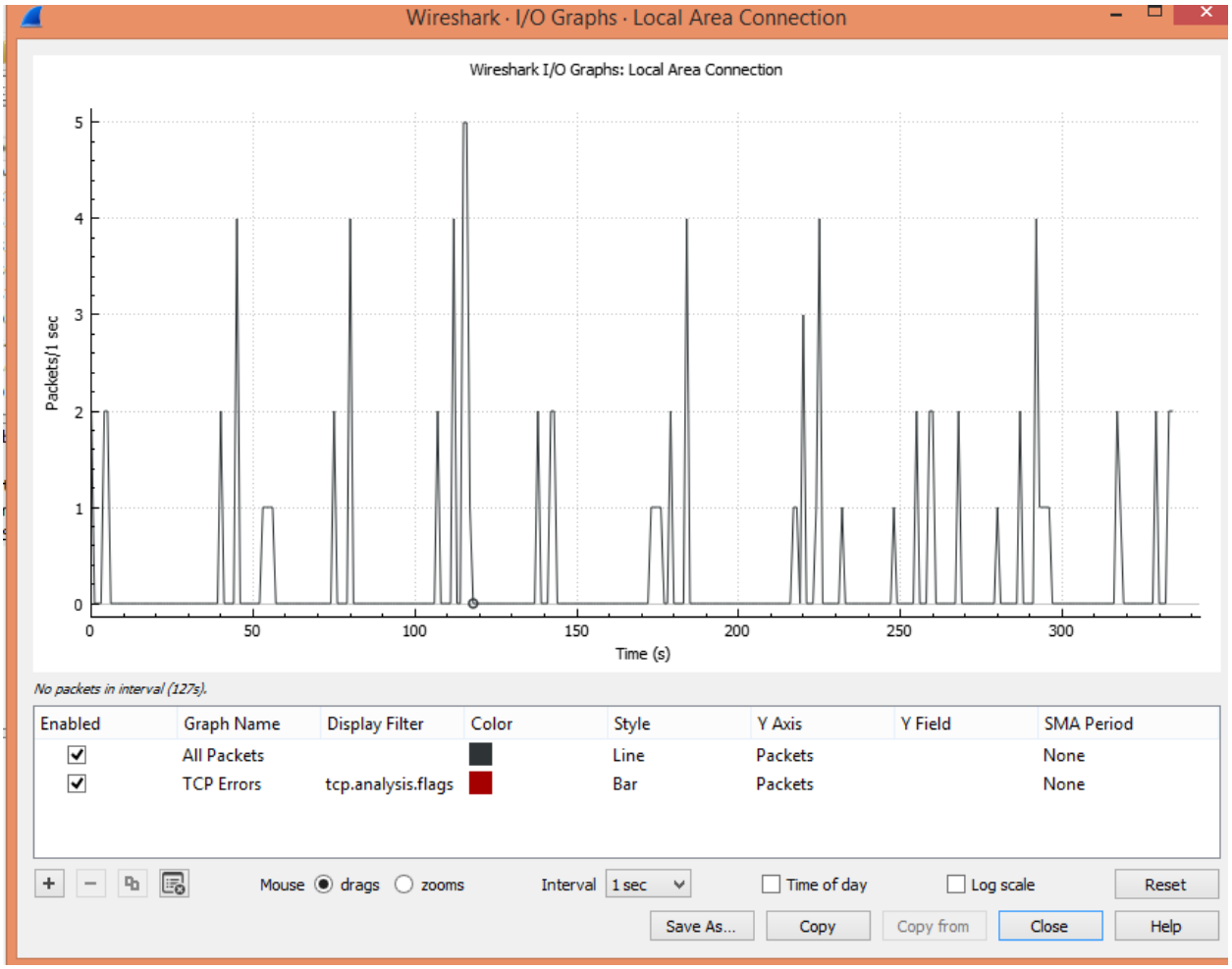

Figure-5: Generating I/O graph.

Conclusion:

In this lab, we learned about Comparative Analysis of Wired and Wireless data using Wireshark.

For this we first start captured data with wireshark for both wired and wireless. After that we also generate the packet length, protocol hirerchy, flow graph and I/O graph for a particular session. As a result we get different data for wired and wireless connection.

After analyzing the data, we can say that Wired networks are generally much faster than Wireless networks. Because wired data packages are very much smoother than wireless.