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CPSC 471 - 04 - LAB 01

Computer Communications (Spring 2019)

The goal of this first lab was primarily to introduce you to Wireshark. The following questions will demonstrate that you’ve been able to get Wireshark up and running and have explored some of its capabilities. Answer the following questions, based on your Wireshark experimentation:

1. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.
2. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet- listing window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark *View* pull down menu, then select Time *Display Format*, then select *Time-of-day*.)
3. What is the Internet address of the gaia.cs.umass.edu (also known as www- net.cs.umass.edu)? What is the Internet address of your computer?
4. Print the two HTTP messages (GET and OK) referred to in question 2 above. To do so, select *Print* from the Wireshark *File* command menu, and select the “*Selected Packet Only”* and *“Print as displayed”* radial buttons, and then click OK.

ANSWERS

1. There are several protocols displayed in the protocol column which includes:

TCP, DNS, STP, MDNS, SSDP, ICMPv6, IGMPv2, ICMPv6, HTTP.

1. It is also displayed in the provided screenshot.

Therefore, HTTP GET time is 15:06:56.497498 and

HTTP OK time is 15:06:56.583045.

497498 – 583045 = 85547 secs.

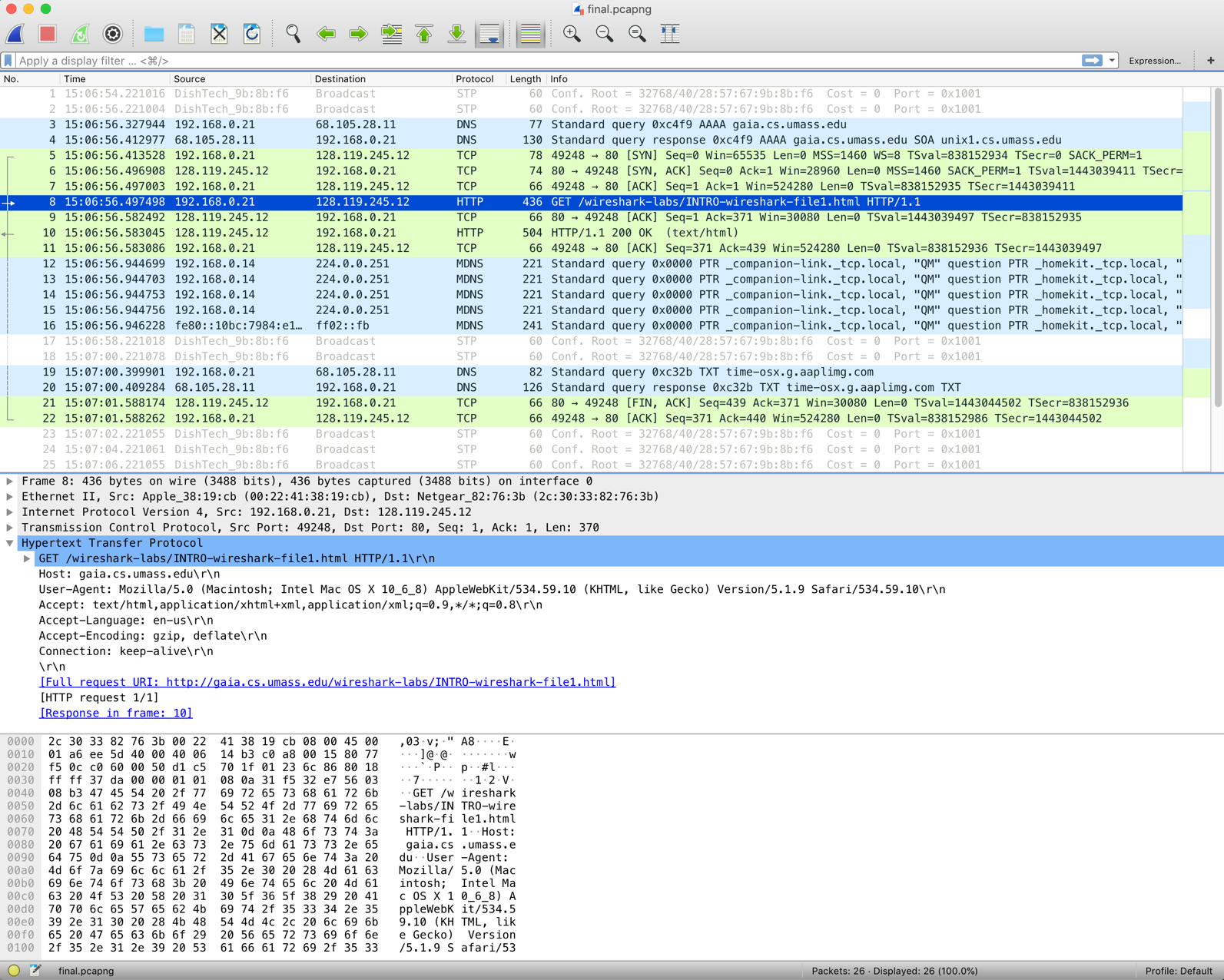
Therefore, the delay is 85547 secs.

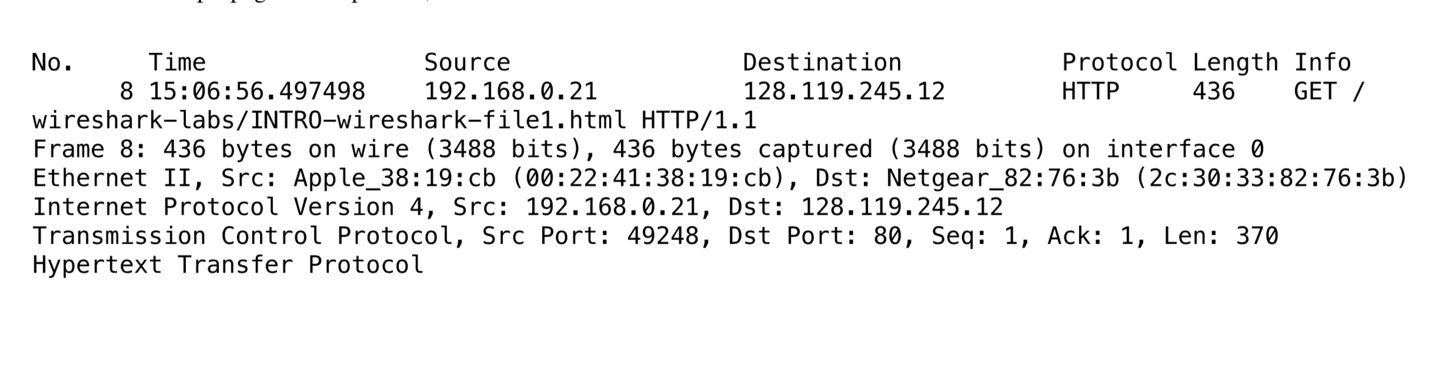
1. Internet Addresses of both:

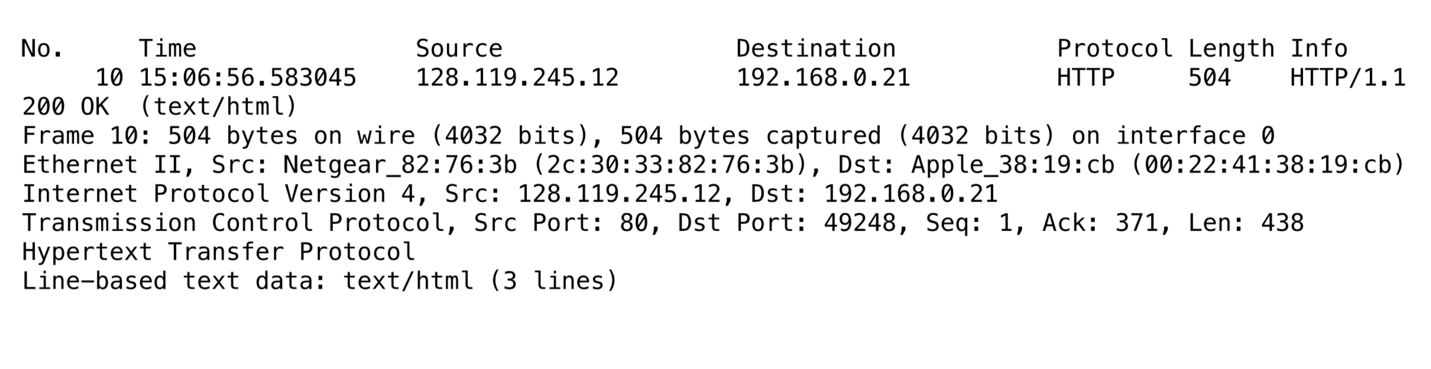
Source: 192.168.0.21 (my computer)

Destination: 128.119.245.12 (gaia.cs.umass.edu)

1. Screenshots are attached below HTTP GET and OK messages.







MORE DETAILS SNAPSHOTS of HTTP MESSAGES ARE BELOW

GET AND OK



