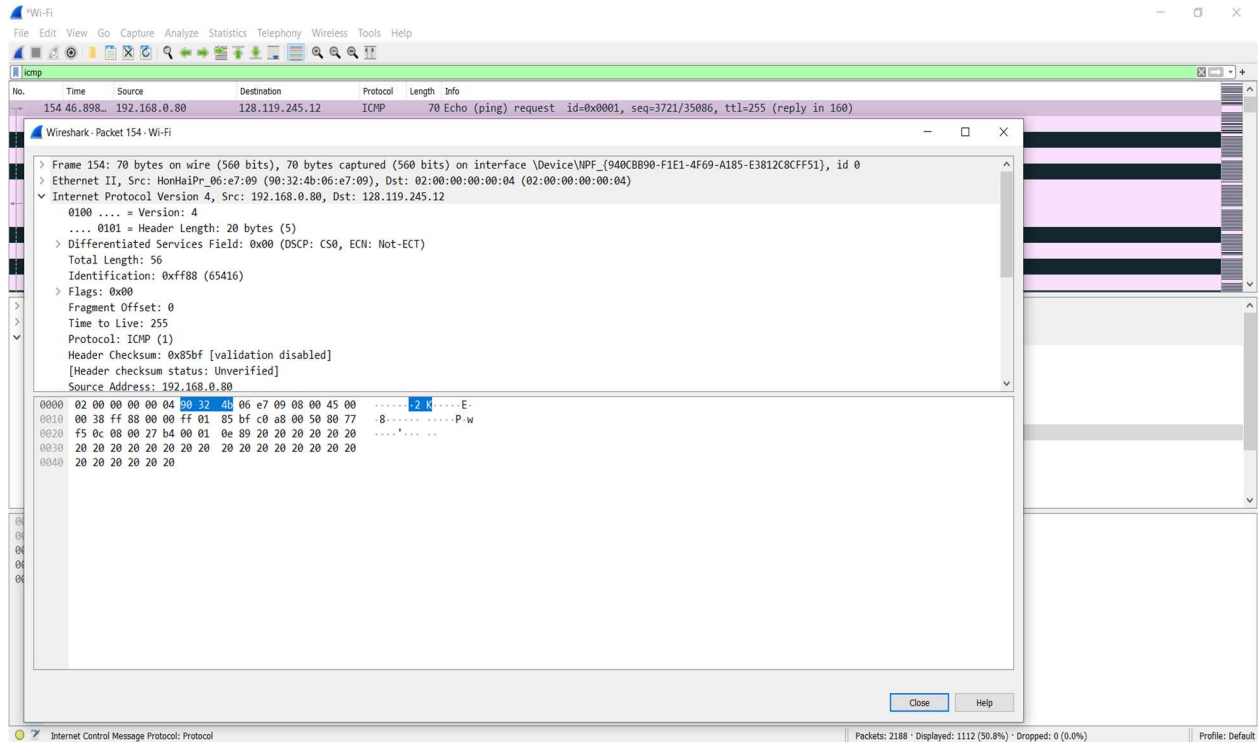# COMP-3670 Lab 3 - Wireshark Lab: IP v7.0 Questions 1-7

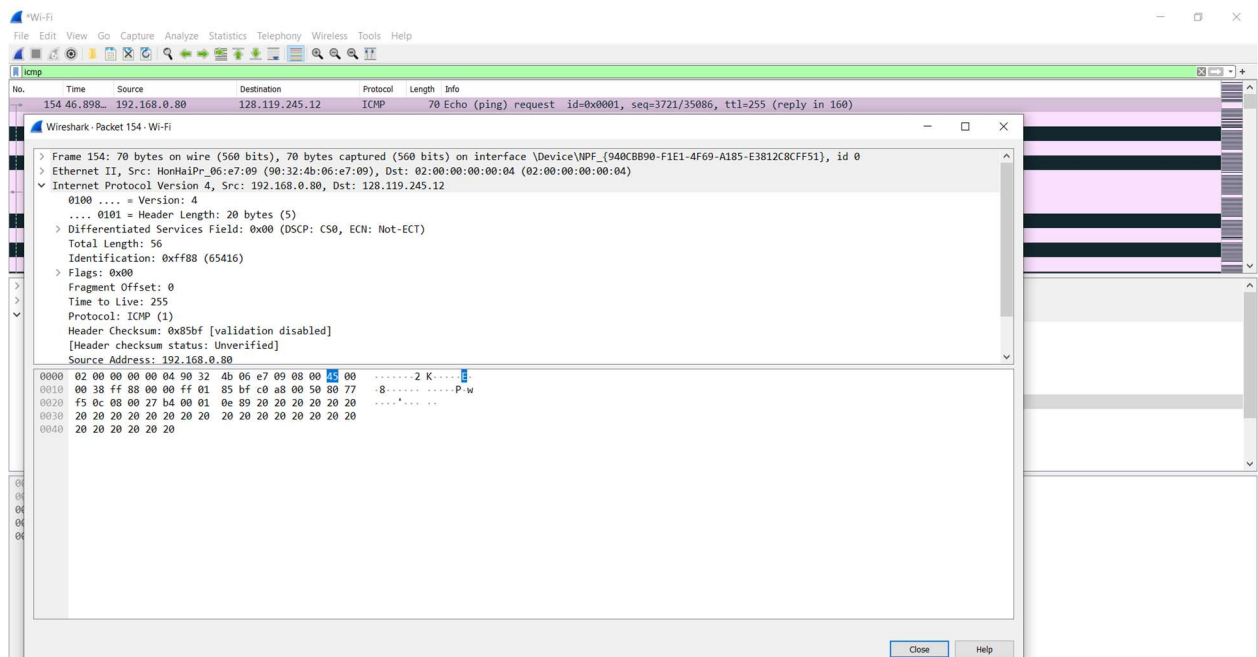Ryan Raffoul

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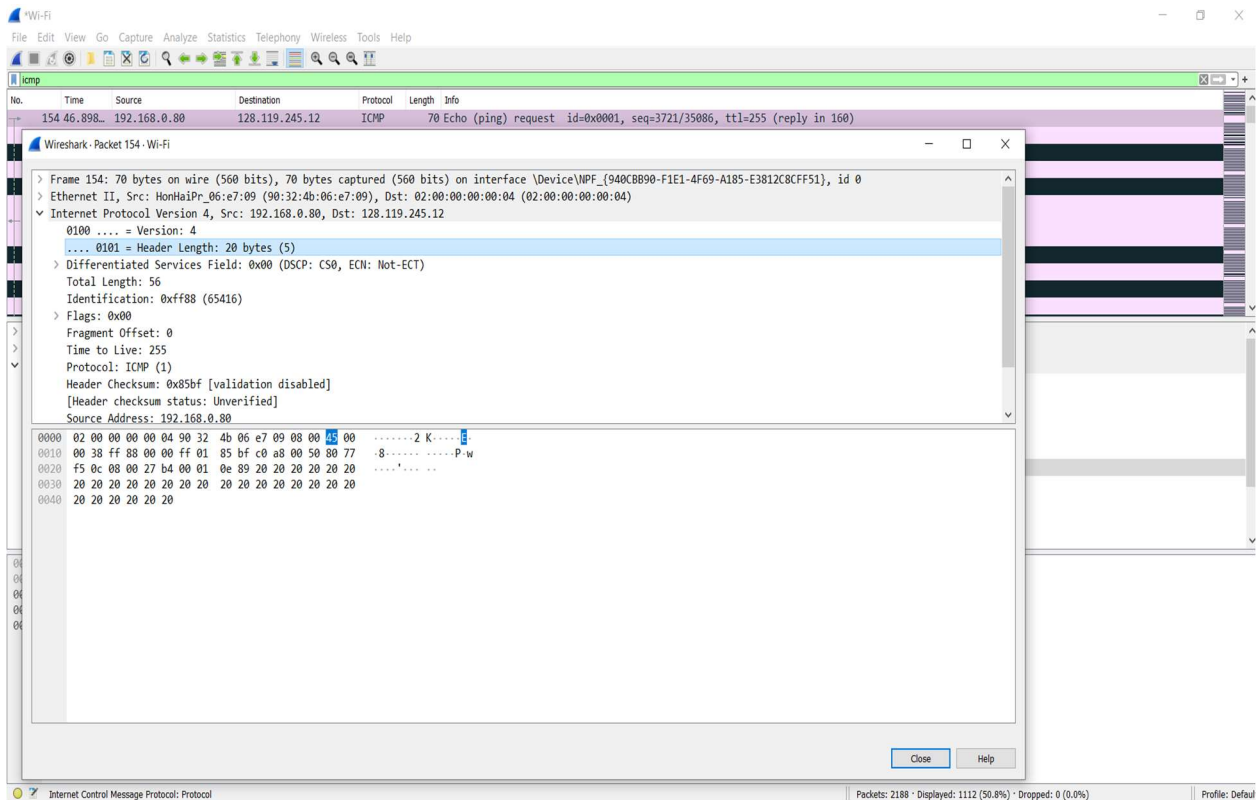
**1.** The IP Address of my computer is 192.168.0.80

**2.** Within the IP Header the value in the Upper Layer Protocol field is ICMP (1).

3. There are 20 bytes in the IP header. There are 36 bytes in the payload of the IP Datagram. I determined this by doing the total length (56 bytes) minus the IP Header length (20 bytes).

4. The IP Datagram has not been fragmentated. I determined this by seeing the fragmented offset is set to 0.
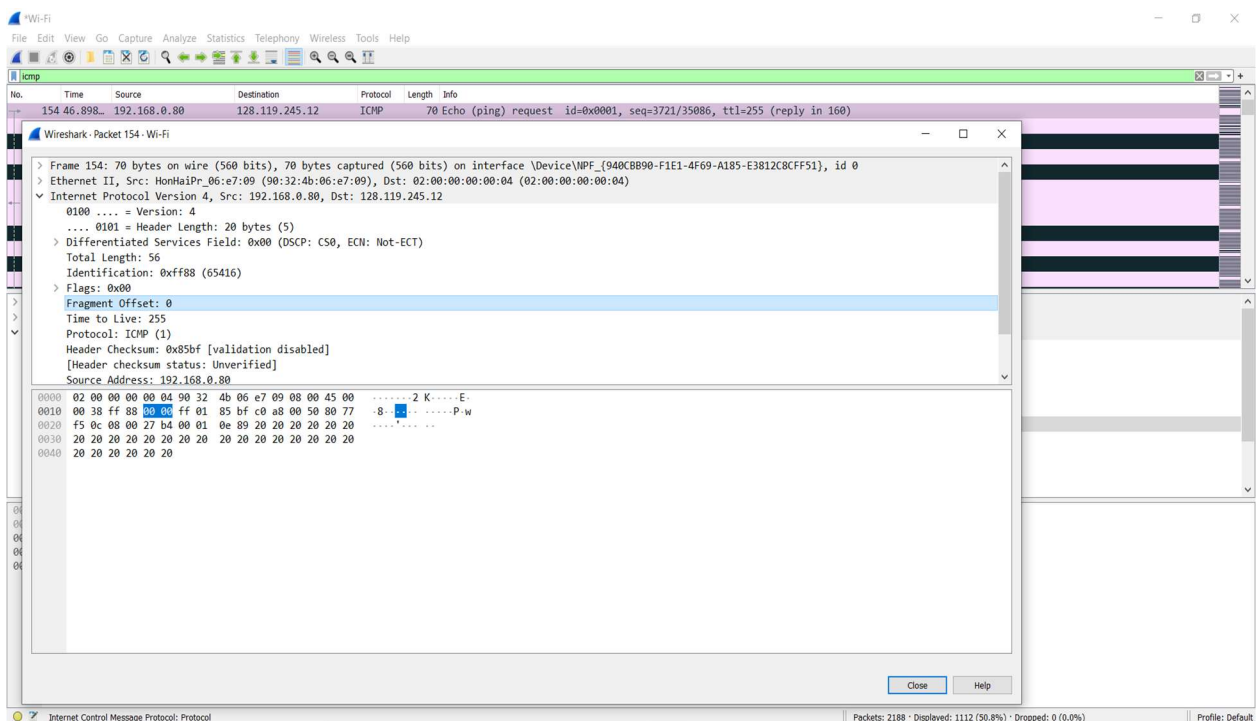
**5.** The Identification field and the time to live fields are incrementing by 1.
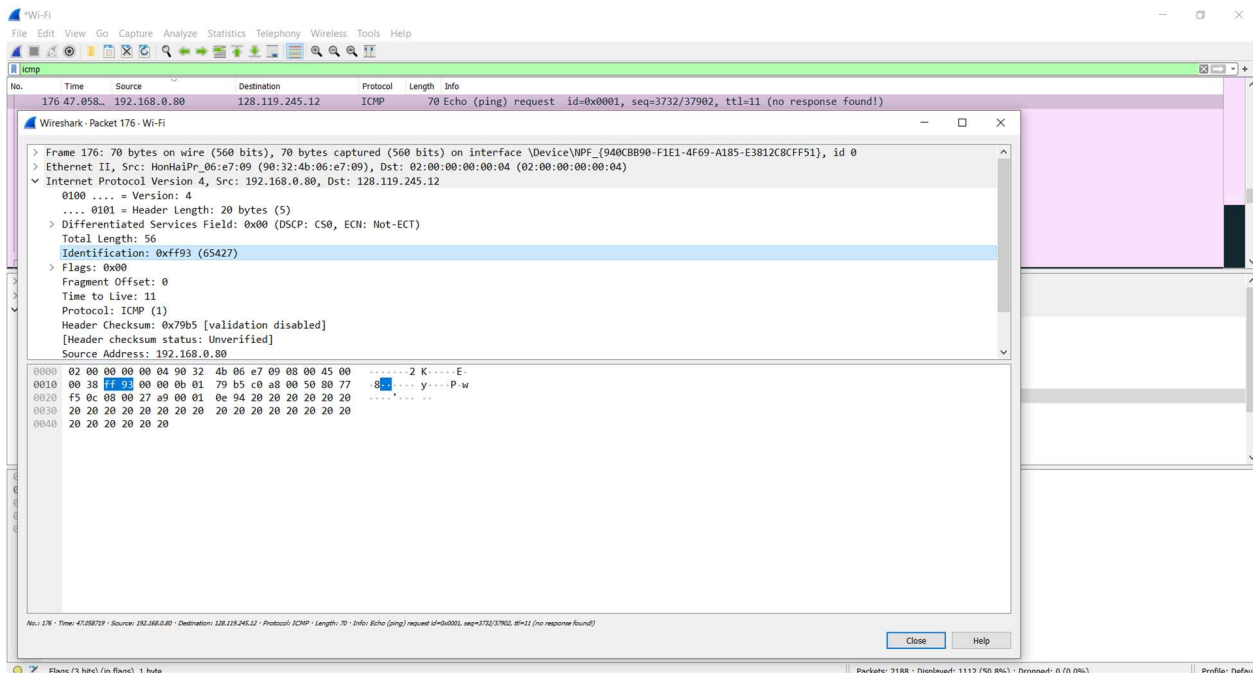
6. The fields that stay constant are:

- Version IPv4 (always same).

- Length of Header (does not change).

- Source IP (sending from same place).

- Destination IP (receiving from same place).

- Upper Layer Protocol (always using ICMP).

- Differentiated Services (same protocol every time).

All the fields above must stay constant.

The fields that can change are:

- Identification Field (incrementing by 1, each IP datagram has a different ID).

- Time to Live (incrementing by 1, uses trace route).
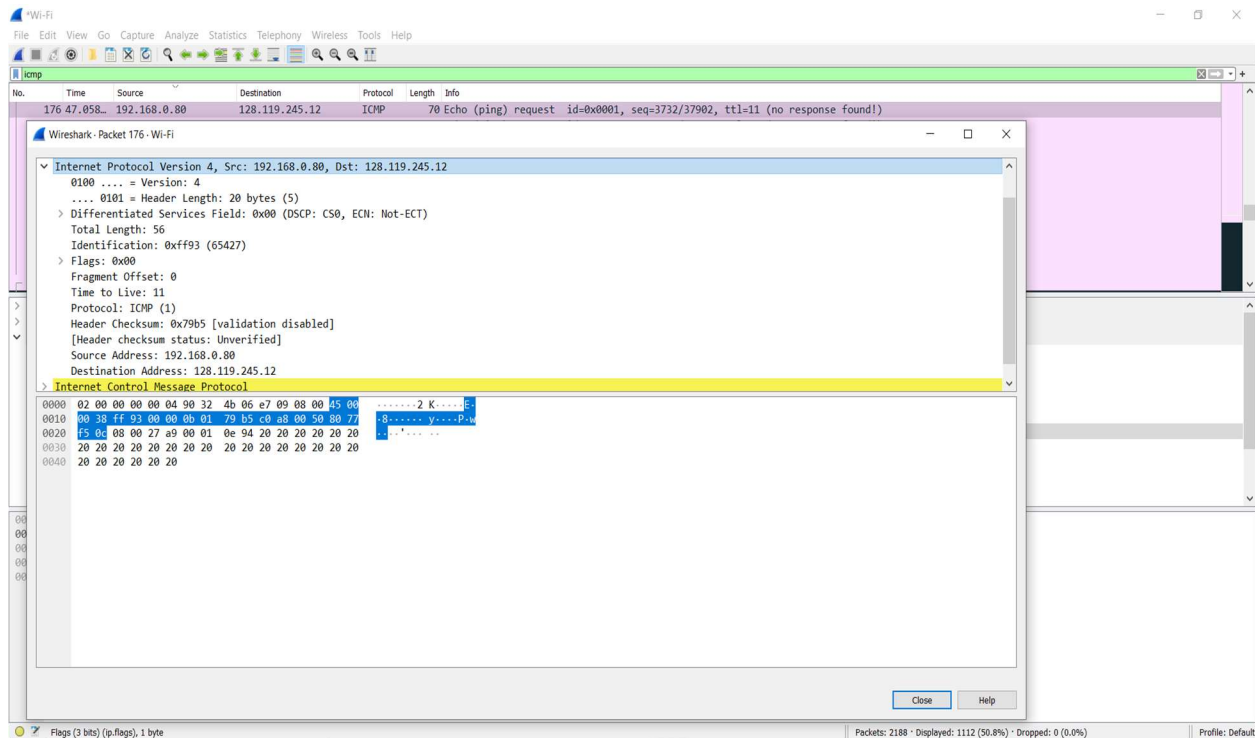
7. The pattern I am seeing in the values in the Identification field of the IP datagram is they are incrementing in each strand of echo requests.