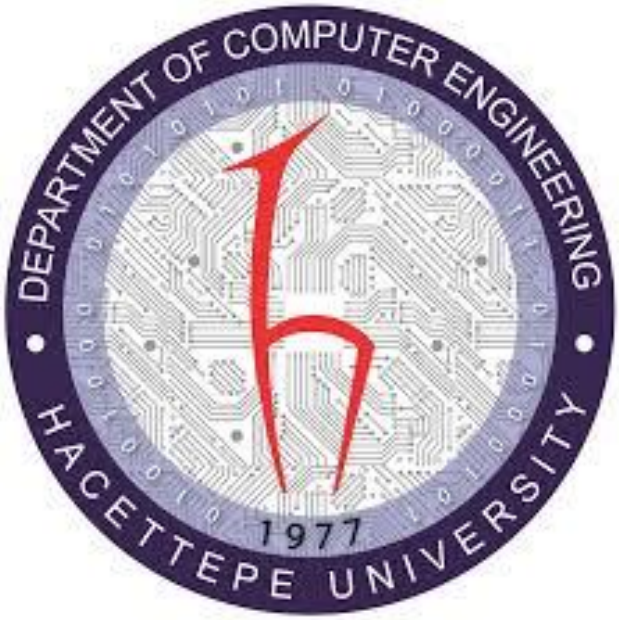
HACETTEPE UNIVERSITY

COMPUTER ENGINEERING DEPARTMENT

COMPUTER NETWORKS LABORATORY



EXPERIMENT ICMP

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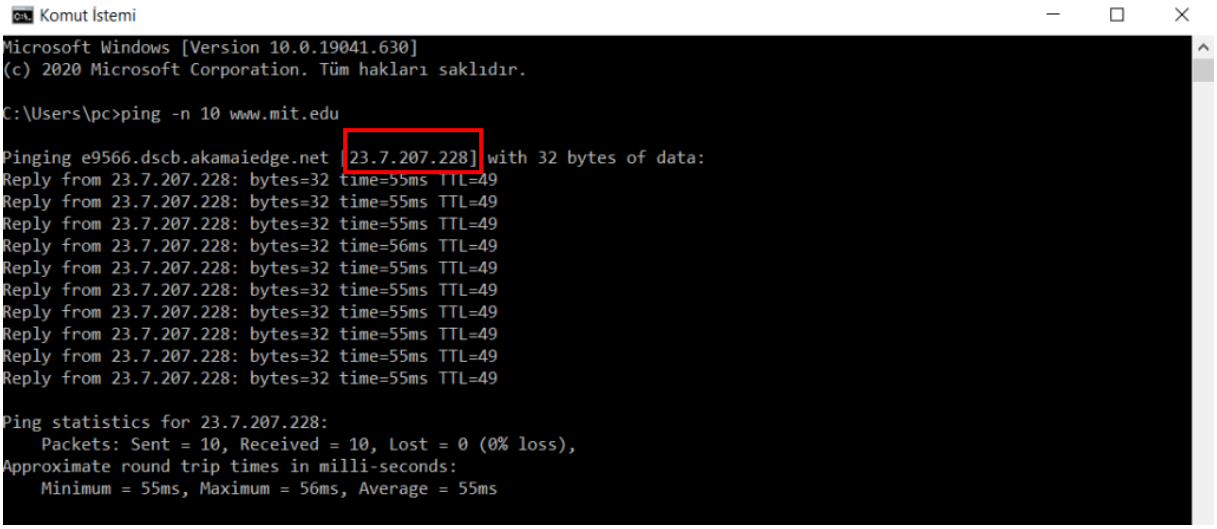
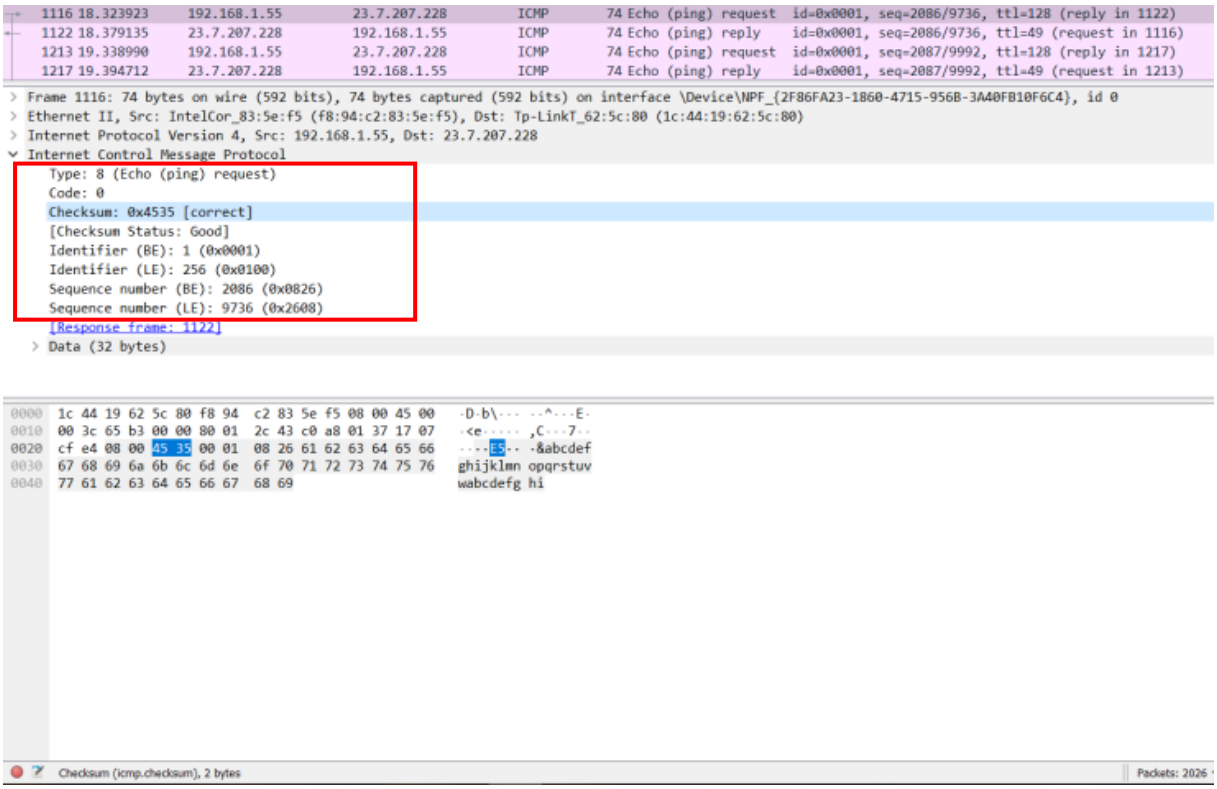
GROUP NUMBER : 12

IP address of our computer: 192.168.1.55

1. IP address of our source computer is 192.168.1.55 and IP address of destination is 23.7.207.228 which is www.mit.edu

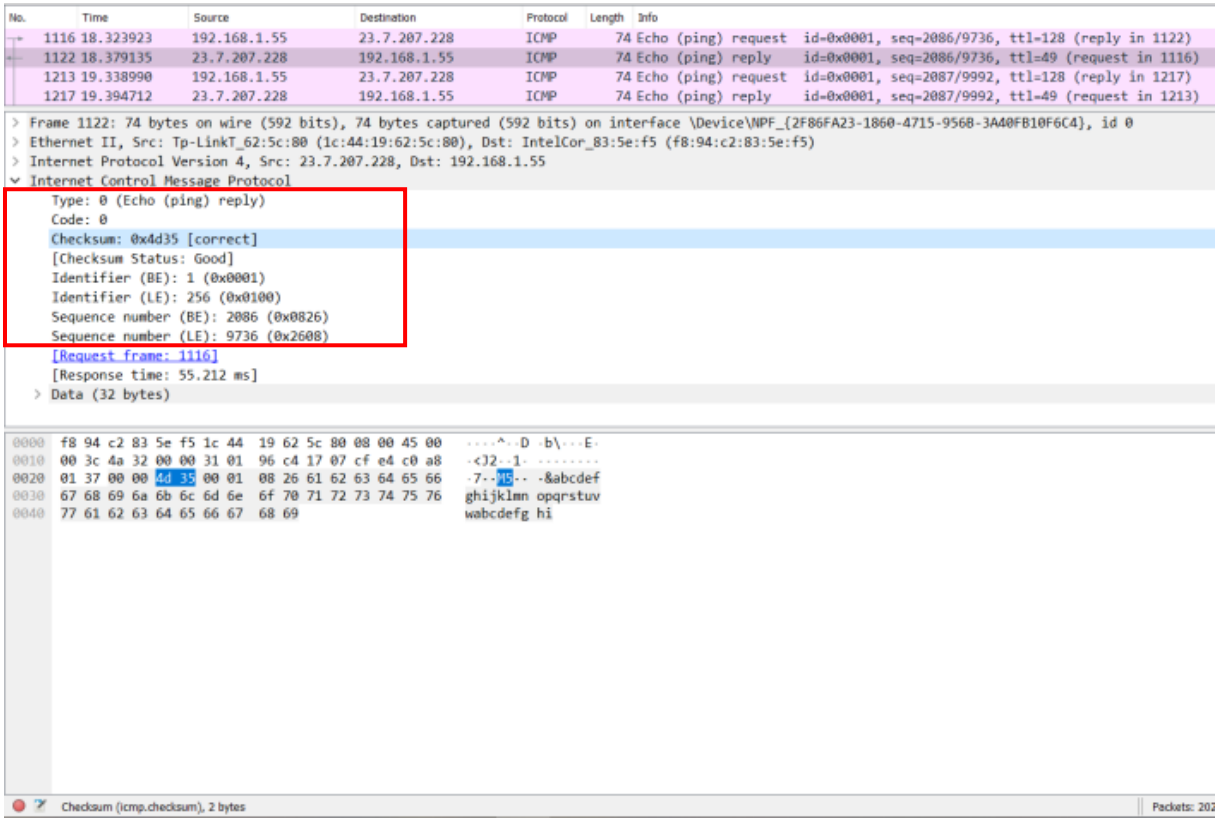


2. Each ICMP packet has type and code information. It provides to communicate network layer information between routers and hosts that's why ICMP packet does not have any source and destination port numbers. The Type/Code identifies the particular message being received. Since the network software itself interprets all ICMP messages, no port numbers are needed to direct the ICMP message to an application layer process.
3.



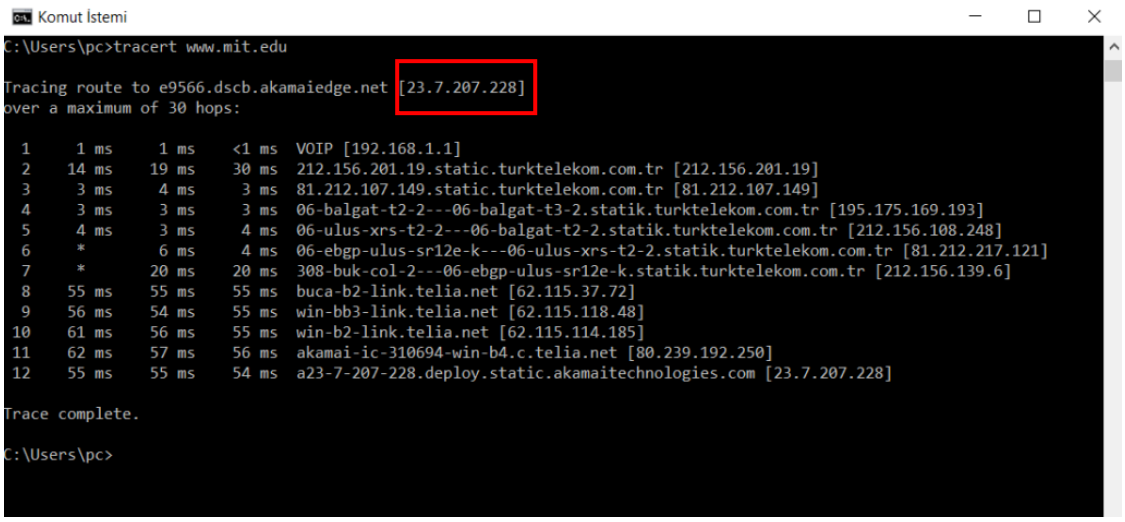
ICMP type: 8
Code: 0
Identifier: BE / LE
Checksum, identifier and sequence number are both 2 bytes. An ICMP packet has these fields.

4. Ping reply :



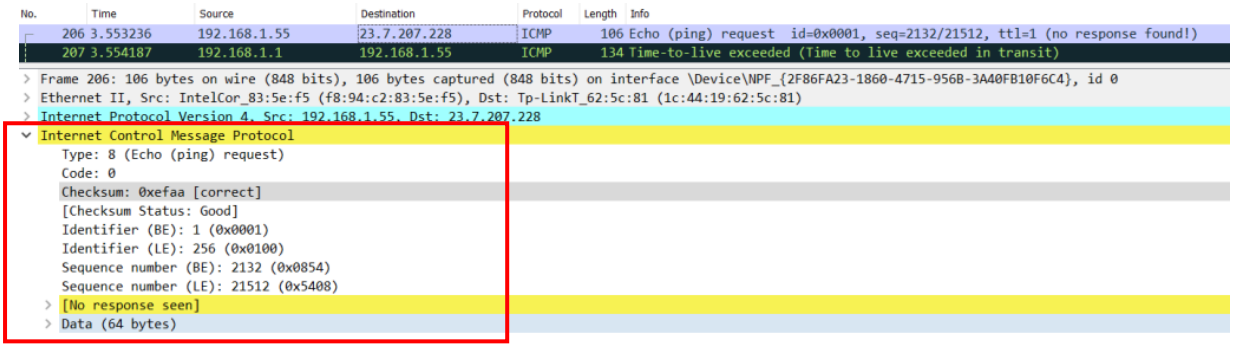
ICMP type: 0
Code: 0
Identifier: BE / LE
Again, all fields are 2 bytes long.

5. IP address of our source computer is 192.168.1.55 and IP address of destination is 23.7.207.228 which is www.mit.edu

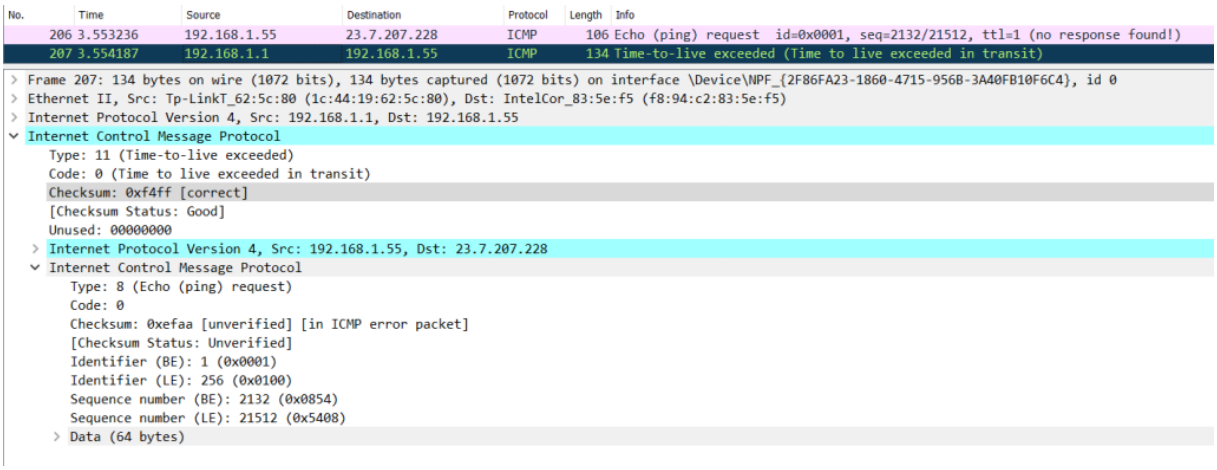


6. No, if ICMP sent UDP packet, IP protocol number should be 0x11

7. Ping query message (request) no response seen in this screenshot:



ICMP error packet:



A ping query packet contains type, code and checksum information besides an ICMP error message has more fields like error ping information.

8. According to screenshot below, the delay of Balgat – Ulus link takes long time .