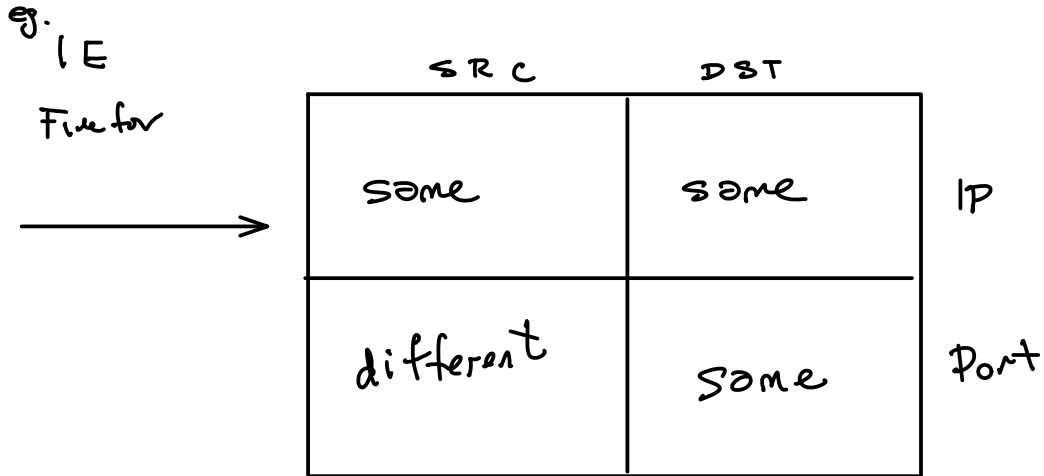
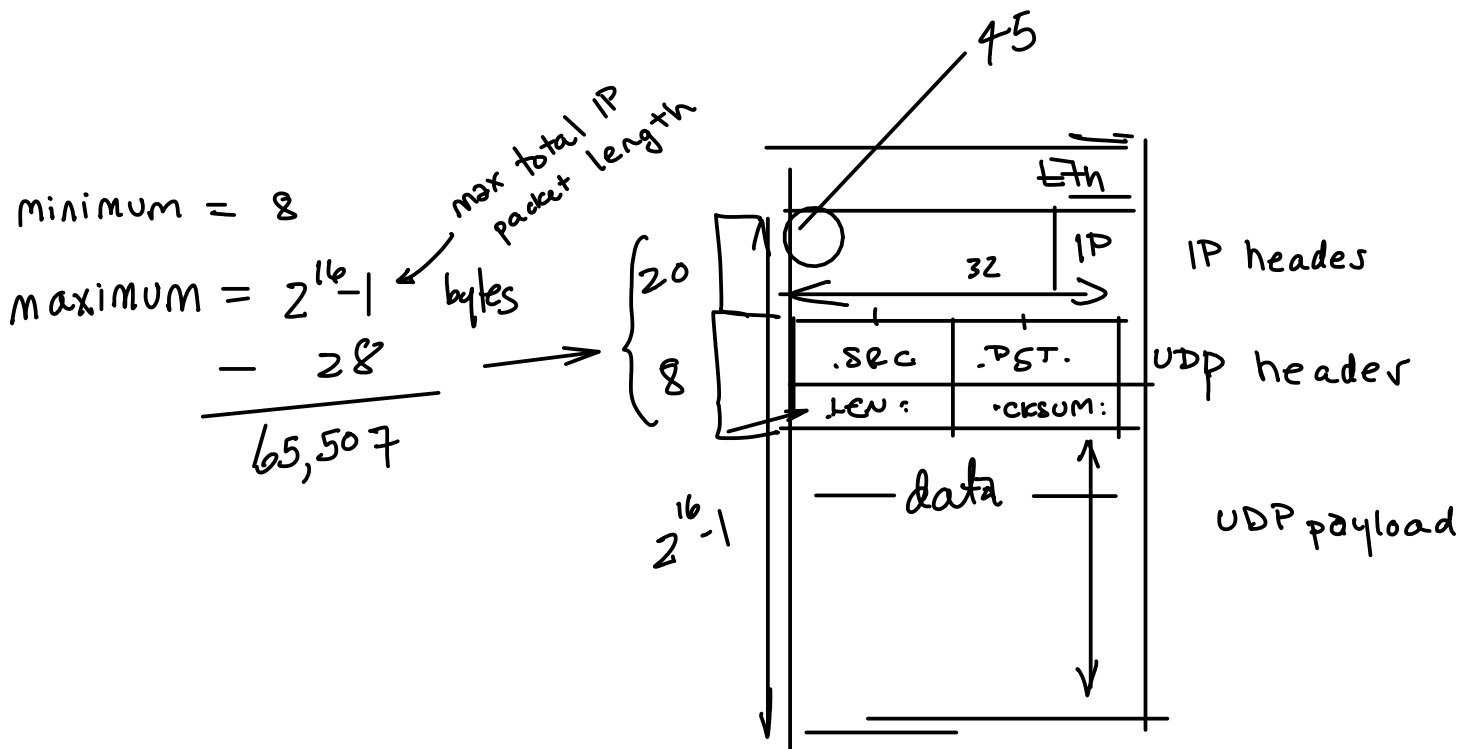


Lecture 15 - UDP and TCP

Exercise 1: Two users on the same client connect to the same web server. Which of the addresses and ports are the same? Which are different?



Exercise 2: What are the minimum and maximum values for the UDP length field?

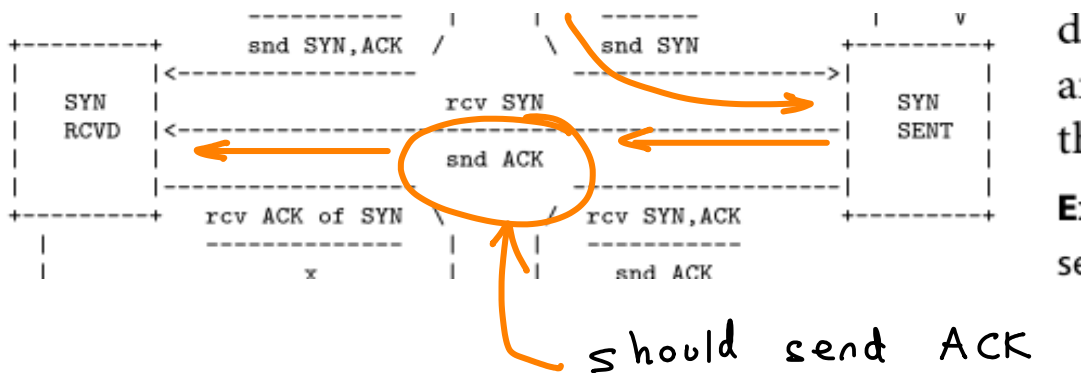


Exercise 3: The most recently received TCP packet for a connection had an Acknowledgement Number value of 1000 and a Window value of 64. Assuming 1024 bytes are ready to be sent, what will be the value of Sequence Number in the next packet transmitted for that connection? What will be the length of the IP packet?

and
 assuming no outstanding bytes. (i.e. last sequence number was 1000)

next Seq. # is 1001
 dest. can accept 64 bytes
 ∴ packet will be 64 bytes (1001 → 1064)

Exercise 4: According to the TCP state transition diagram, what should happen if a host responds to an initial SYN frame by sending back a frame with only SYN set?



Exercise 5: How can a host reduce the rate at which data is sent to it on a TCP connection?

- delay sending ACK (may cause retransmissions)
- reduce the window size (best)