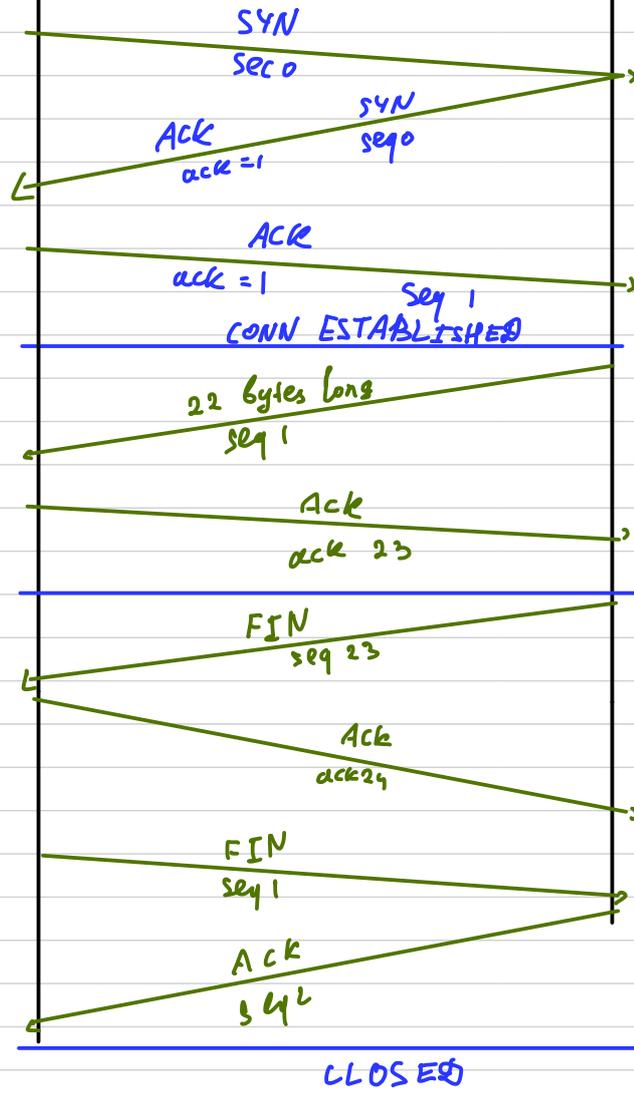
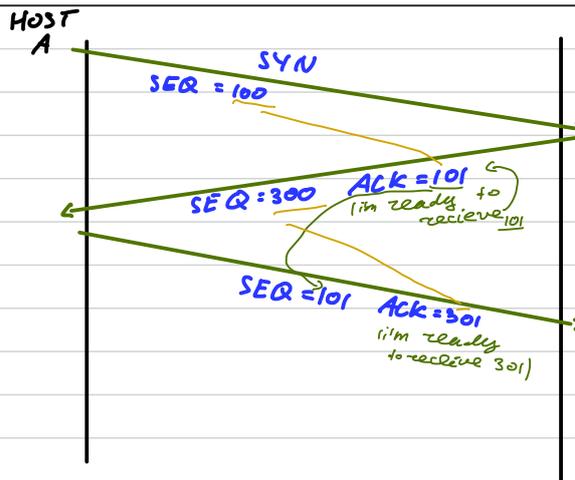




client

server





ACK = start byte + size of packet + 1

syn = takes 1 byte
ack = doesn't take any byte

RTO = retrans. time out

RTT = round trip time

RTT_m = measured

RTT_s = smoothed

first one: RTT_s = RTT_m

second one: RTT_s = (1 - α) RTT_s + α · RTT_m
old one new measured

default $\alpha = \frac{1}{8}$

Dev RTT = "standard deviation"

$$\text{Dev RTT} = \frac{\text{RTT}}{2}$$

Dev RTT =

$$(1 - \beta) \text{Dev RTT}$$

$$+ \beta | \text{RTT}_m - \text{RTT}_s |$$

$$\beta = 0.25$$

$$\text{RTO} = \text{RTT}_m + 4 \cdot \text{Dev RTT}$$

RTT_d = deviated
how much does it vary from average RTT

1ms = 0.001 sec

transmission = we send

reception = we receive

MSS = maximum segment size

MTU = maximum transmission unit

Cwnd = congestion window (limit of unacknowledged data in bytes)

Rwnd = receive window

