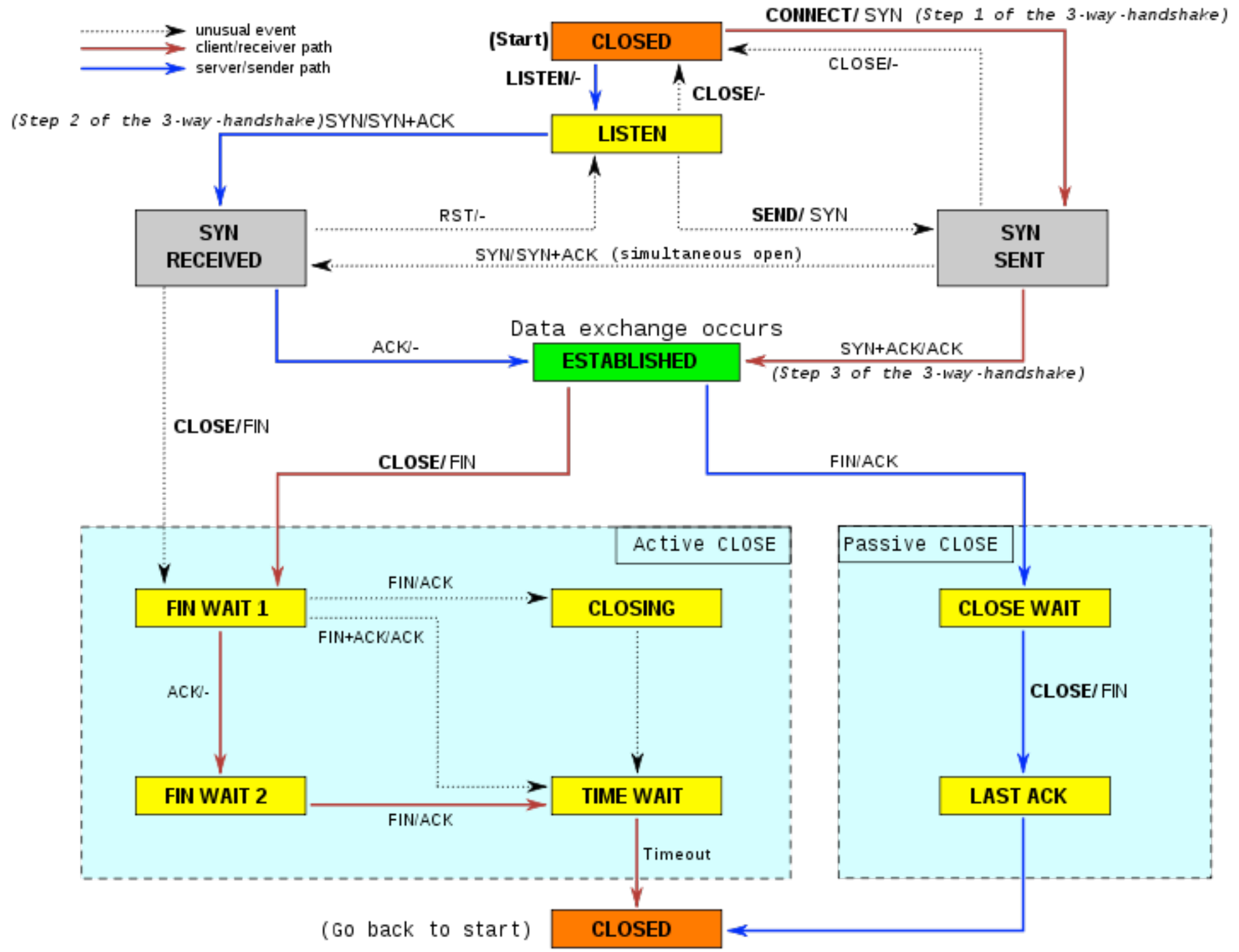
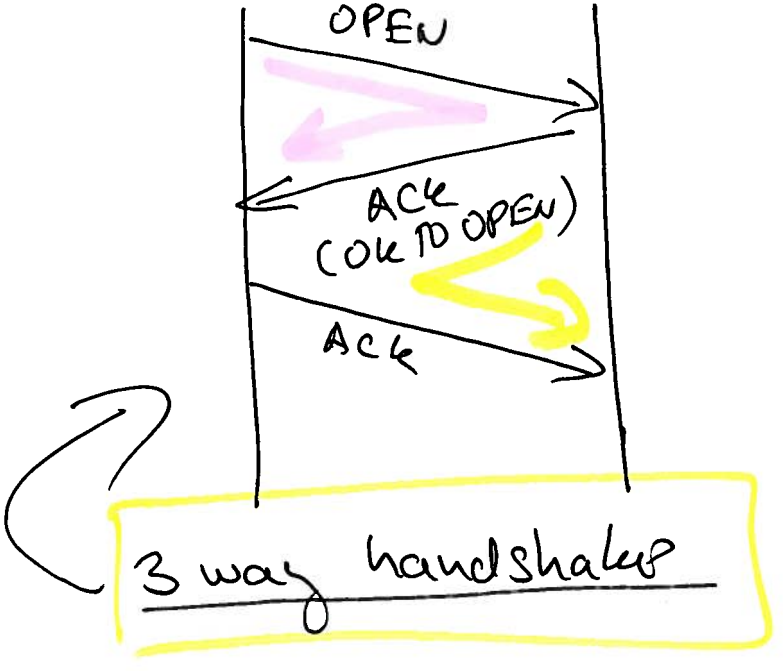
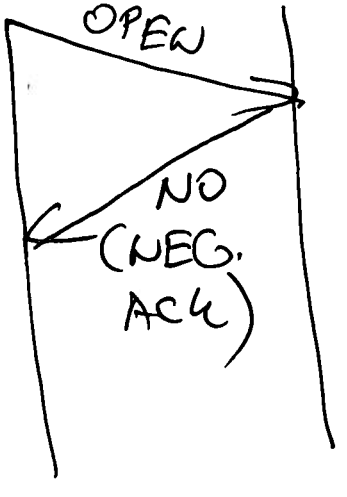
TCP State Diagram



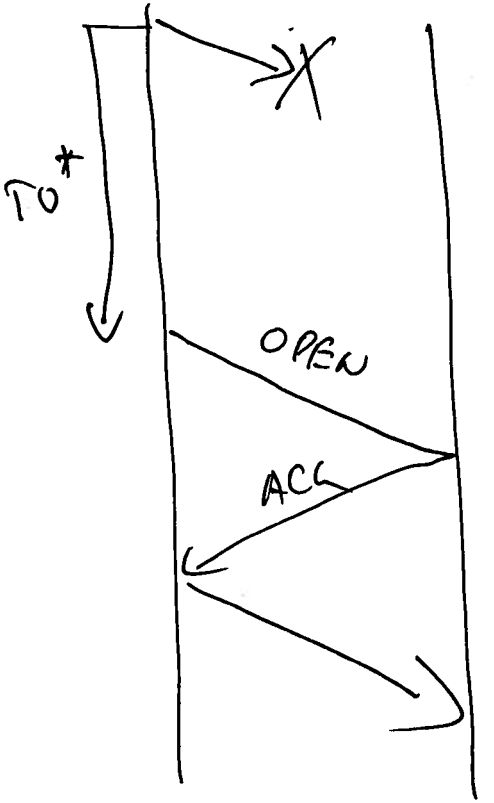
CON. OPEN - BASICS



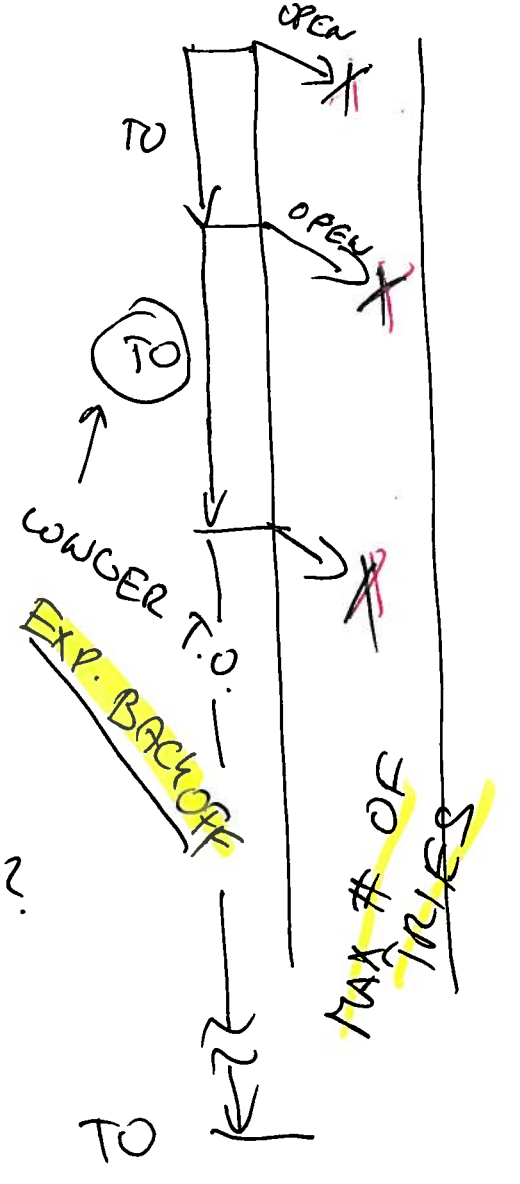


CONNECTION REJECTED

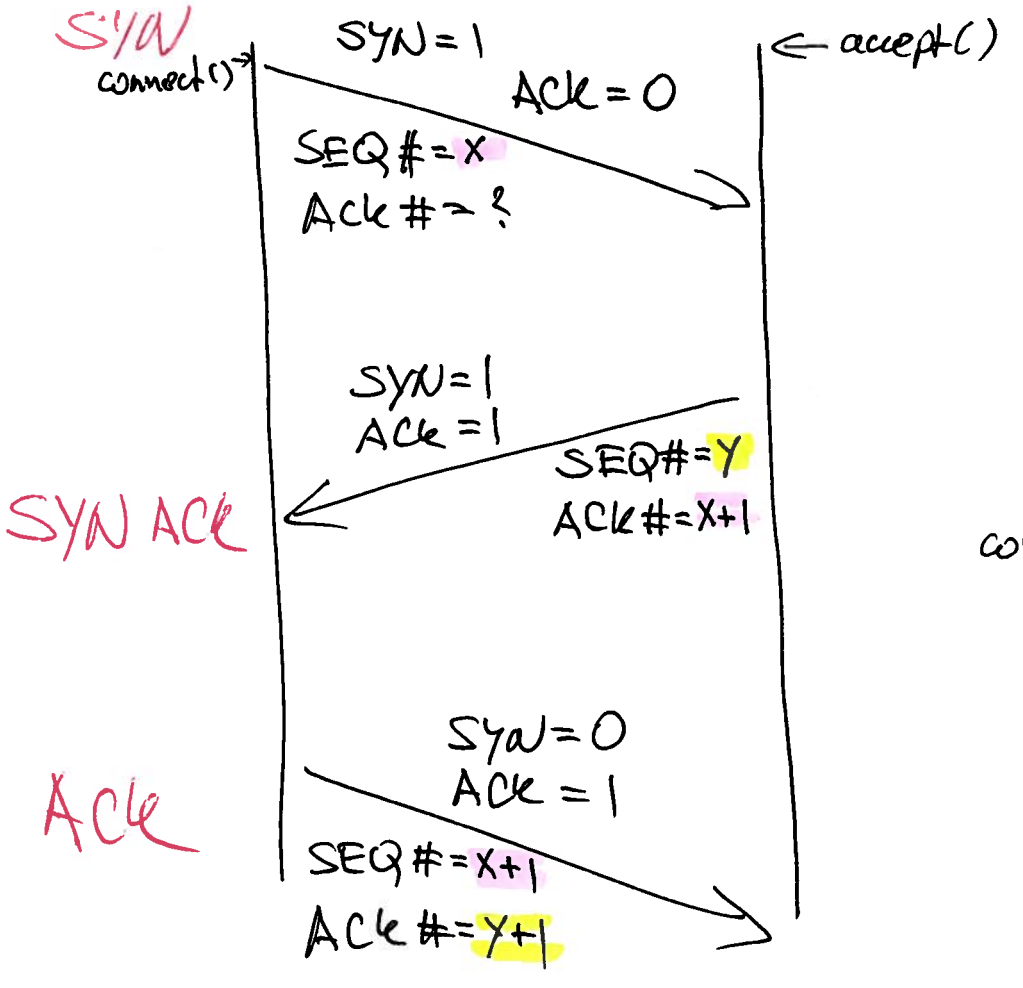
PROBLEMS :



* HOW LONG ?



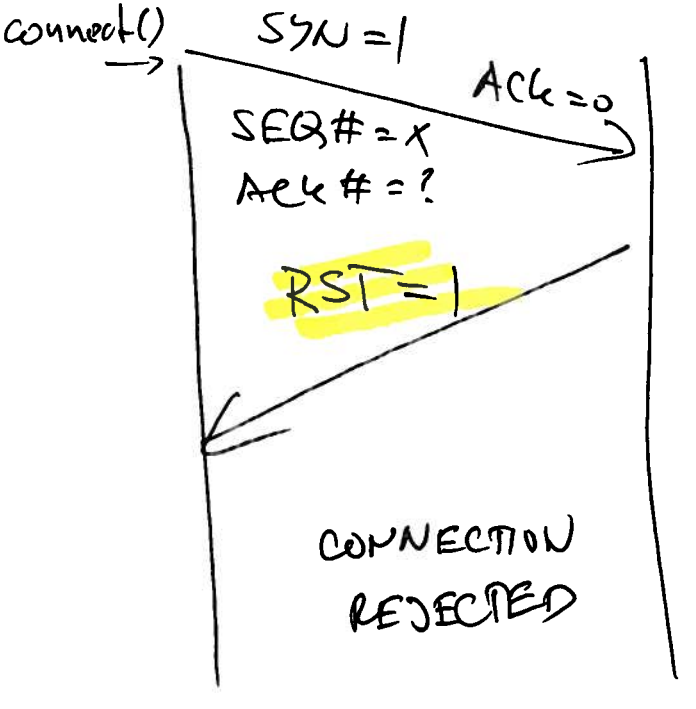
TCP CONNECTION OPEN



SYN - SYNCHRONIZE SEQ #s

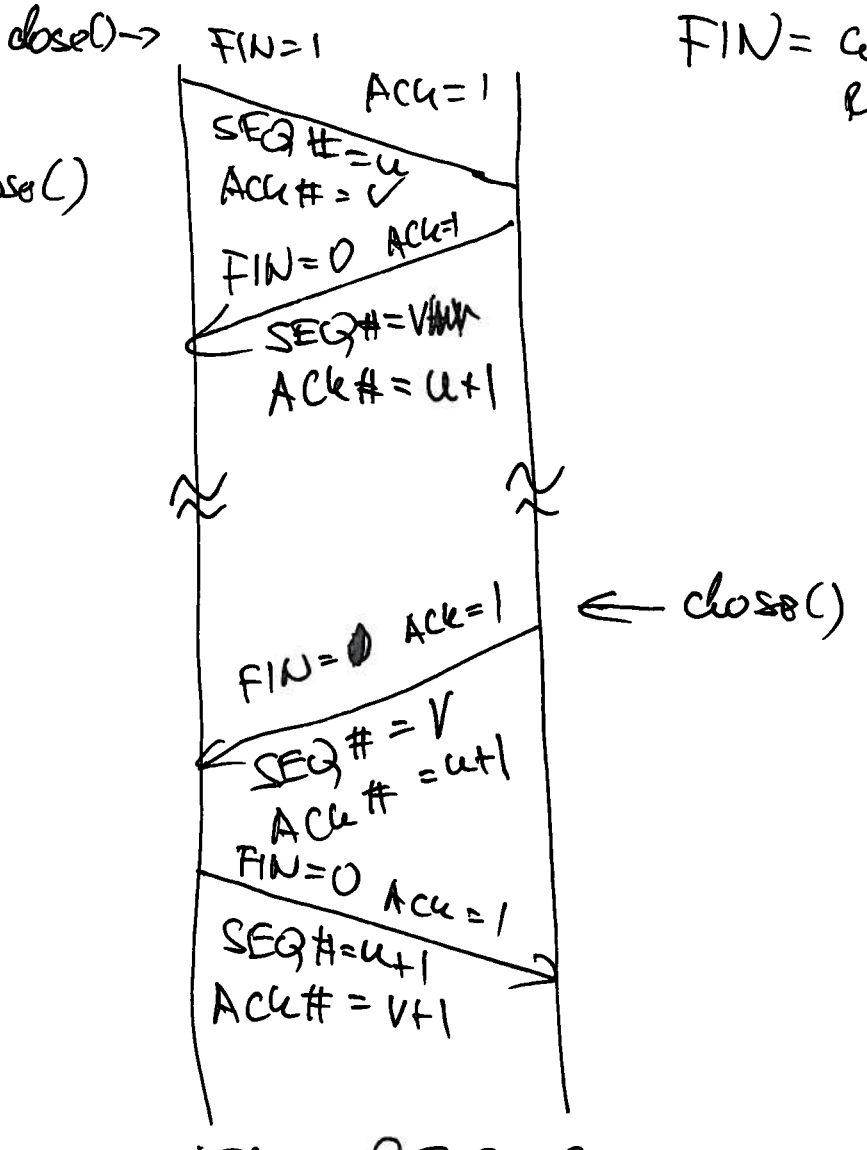
ACK - ACK # FIELD CONTAINS A VALID VALUE

RST - RESET



TCP – CLOSE CONNECTION

SYN. RELEASE

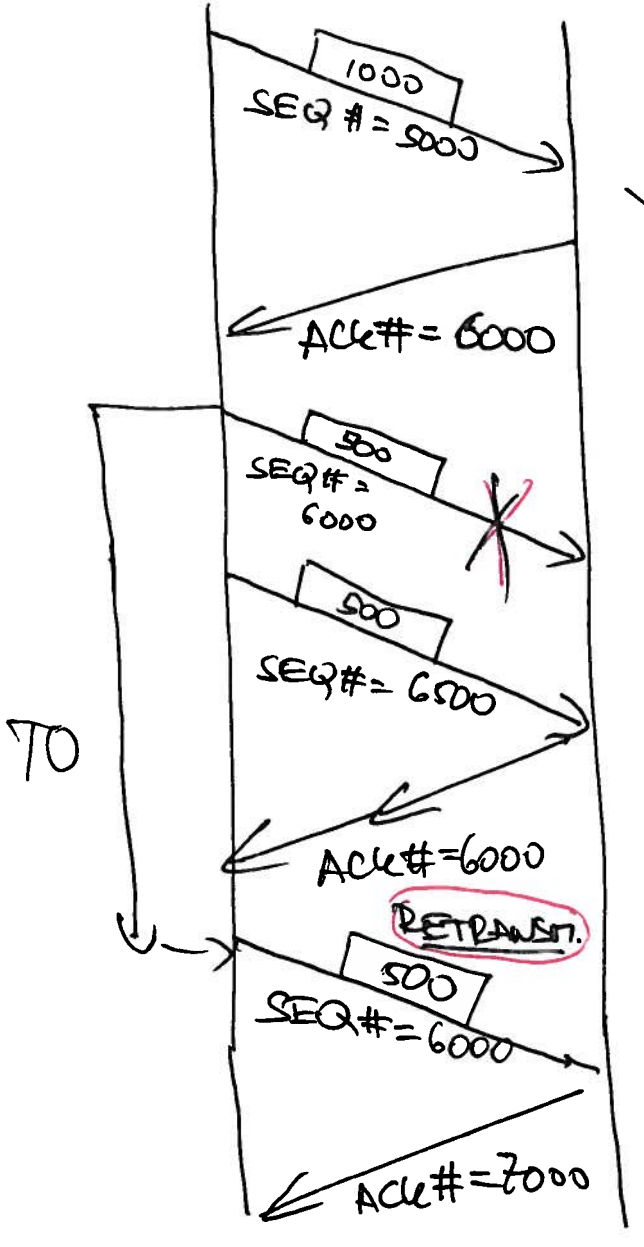


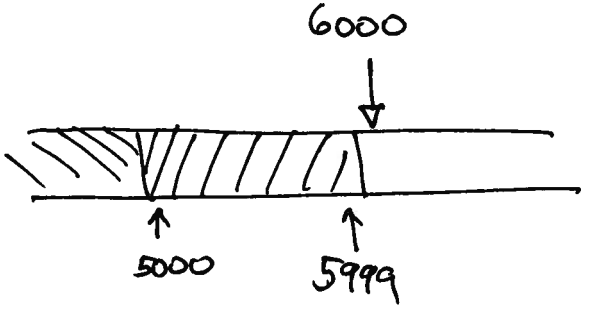
ASYM. RELEASE

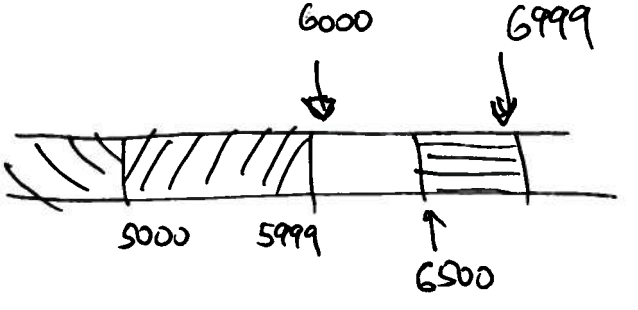
FIN = CON. CLOSE REQUEST

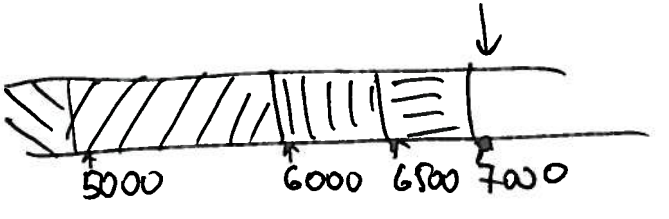
SEQUENCE & ACK NUMBERS IN TCP

SEQ # = 5000









TCP Flow Control

- Receiver congestion:
  - Window Size field - explicitly reported by the receiver
- Network congestion:
  - Retransmission timeout - based on observed RTT
  - Transmission window - based on detected packet loss