· ACK, TimeOut, Seq

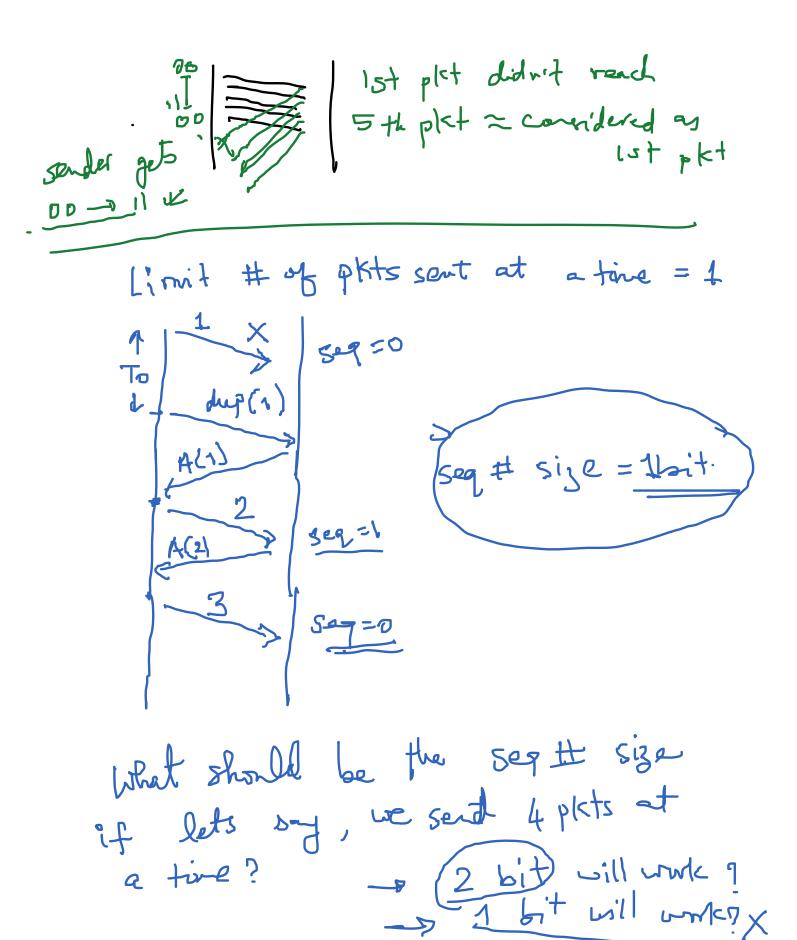
• (corruption of pkt, loss, variable-delay)

• In internet, it is possible that a link does not have FiFo property

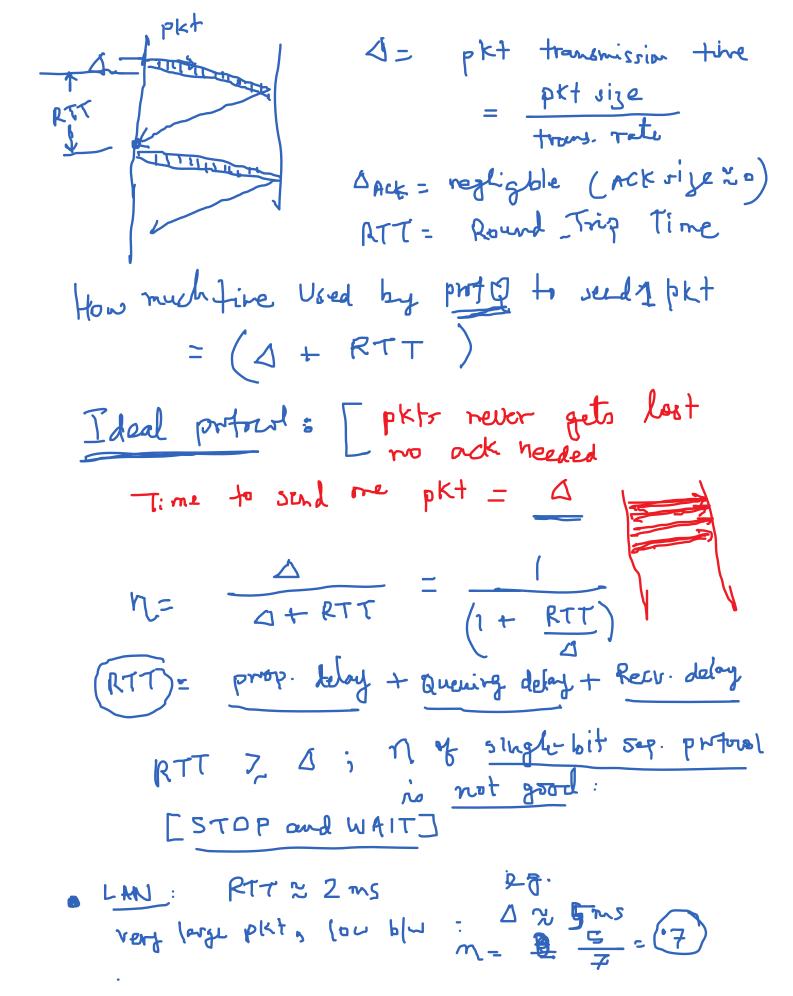
2 1 Rontor a diferen

· Size of the seq number

· If several pkts are sent together, there may be a confusion about the pkt seq.



2 pkt at a time. Notion of Efficiency of a protocol Bandwidth usage (bottleneck) Networks : Good NP protocol will use loss b/w to do same amount of work a putoerl Q = book req-byon ideal (2) Efficiency of pla rd. A but & time taken to get the job lone[ided] time taken by the pertaged



Think of protocols as being represented by an FSM (finite state machine)

System that can be represented by a few (finite) number of parameters.

Classroom – (occupancy#) Class 1 = state(50) = 50 students in classEvery time a students comes in state S -> S+1 Leaves S -> S-1 STOP & WAIT

Receiver::

State 6: Waiting for PK+ (sey # 0)

if pK+= 0 orrives, Send Ack, \* Draw the sender FSM.

Sender FSM State 0: Waiting for Ack=0 State 1: waiting for Ack 1 Event = ACK 0 record E: ACK=1 Event - time out Action: send pkt: 1 ) Action - Retvombnet Event = ACK 1 reard Action = Send PKT=1 Create Combined FSM:  $5(^{1}, ^{1})$ 1 - sondr pæram. Go though the textbook Section on Stopa Wait Important.

and FSM represention.