

# Lecture 3

Note Title

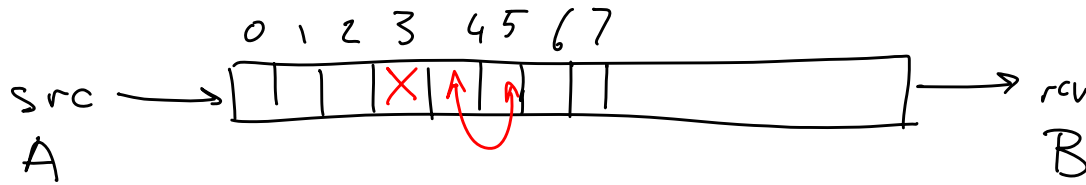
1/14/2005

## TCP

reliable  $\left\{ \begin{array}{l} \text{reliable delivery} \\ \text{in-order delivery.} \end{array} \right.$

Mechanisms:

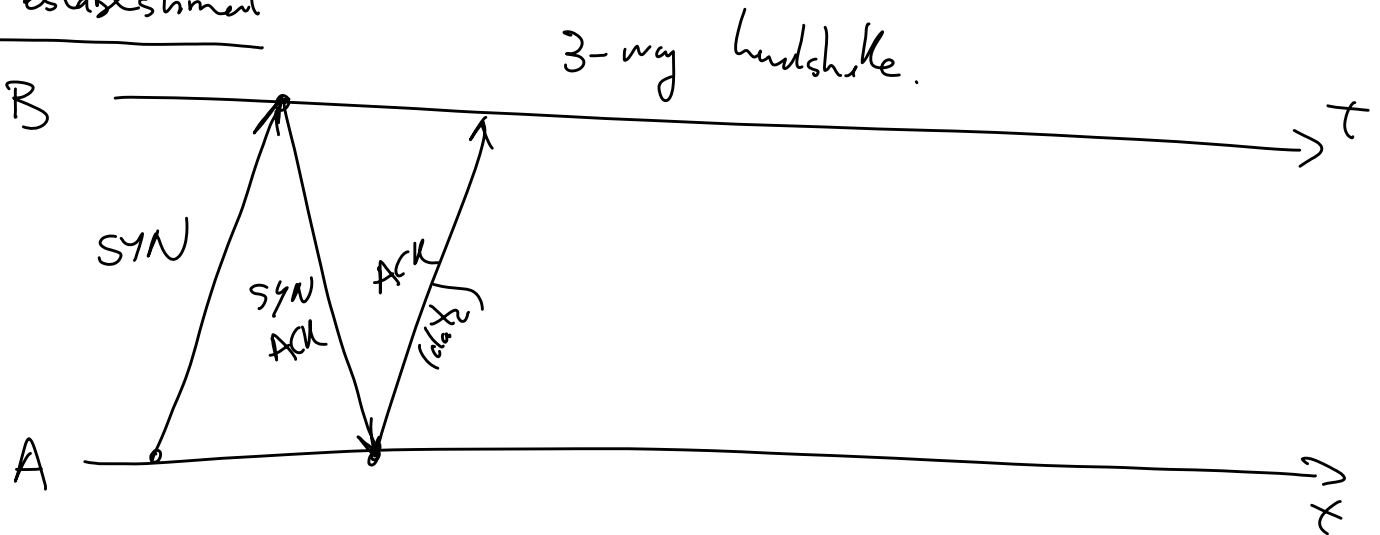
- ACK
- Send/Rcv buffers



State:

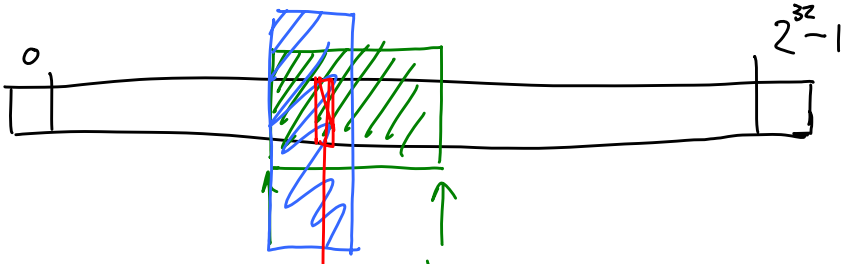
At least, send/rcv buffers, seqno's, ...

## State establishment



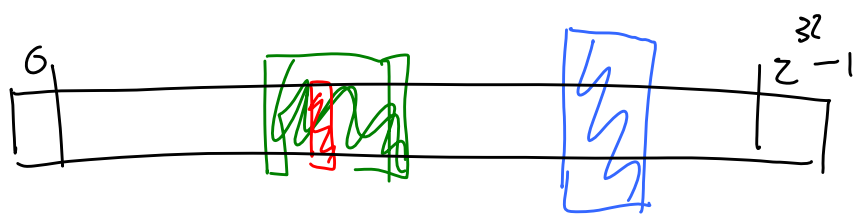
TCP ACK (old style): cumulative acknowledgment.

If rcv acks 31, means all bytes from start seqno to 30 were recvd.



$w_{scale} = 3$   
 $\rightarrow 2^3 = 8$

last, next but in reality;  
 so center that delivered by [ ]



State tear-down

4-way handshake

