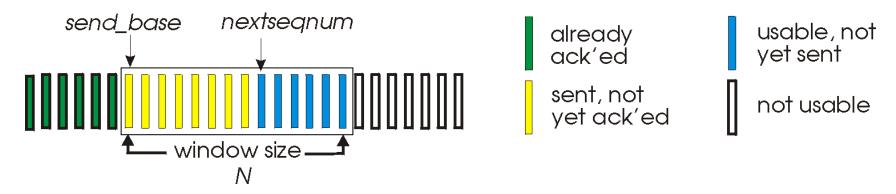
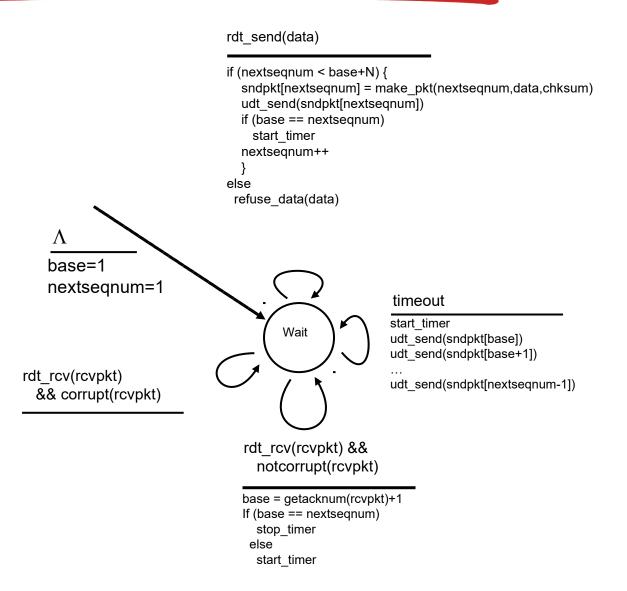
Go-Back-N: sender

- k-bit seq # in pkt header
- "window" of up to N, consecutive unack'ed pkts allowed

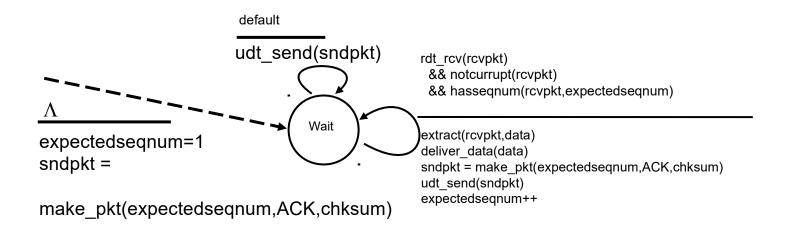


- ACK(n): ACKs all pkts up to, including seq # n "cumulative ACK"
 - may receive duplicate ACKs (see receiver)
- timer for oldest in-flight pkt
- timeout(n): retransmit packet n and all higher seq # pkts in window

GBN: sender extended FSM



GBN: receiver extended FSM



ACK-only: always send ACK for correctly-received pkt with highest *in-order* seq

- may generate duplicate ACKs
- need only remember expectedseqnum
- out-of-order pkt:
 - discard (don't buffer): no receiver buffering!
 - re-ACK pkt with highest in-order seq #