

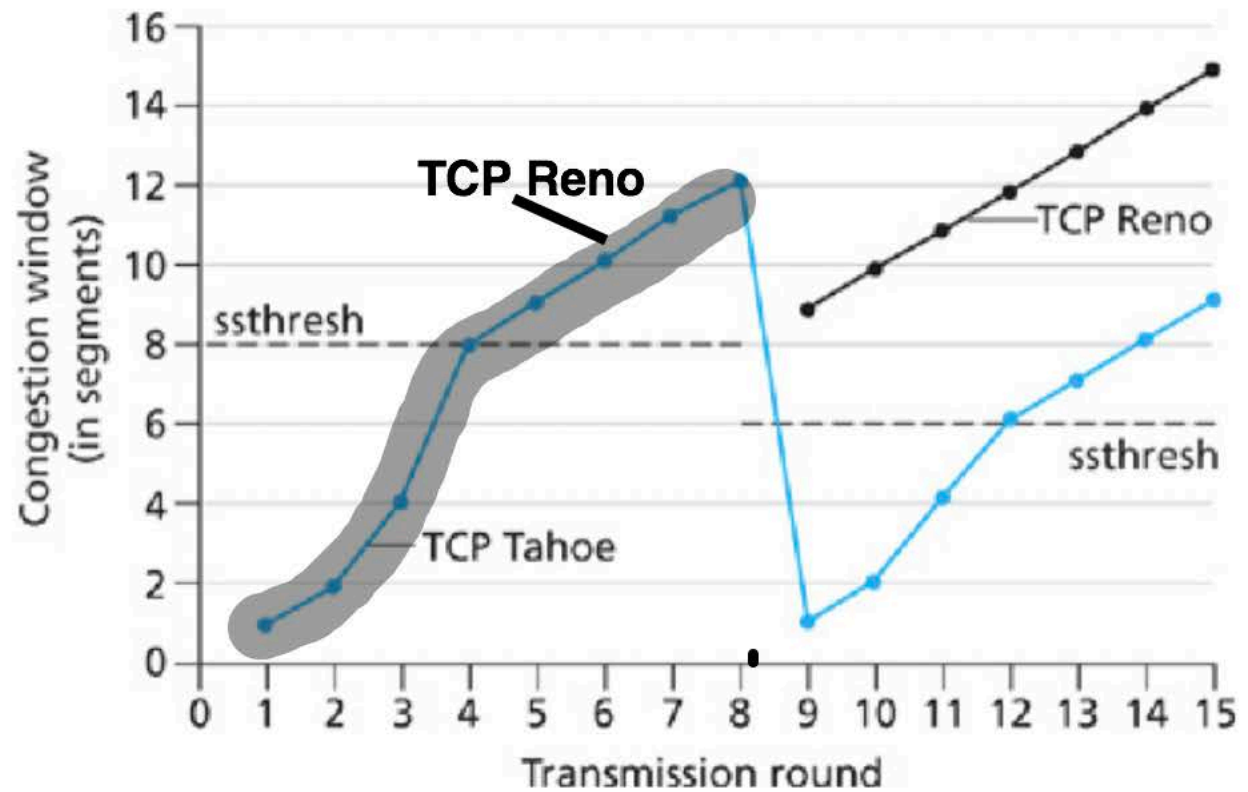
TCP: switching from slow start to CA

Q: When should the exponential increase switch to linear? Or how to choose the threshold value?

A: when cwnd gets to 1/2 of its value before timeout.

Implementation:

- variable ssthresh
- on loss event, ssthresh is set to 1/2 of cwnd just before loss event

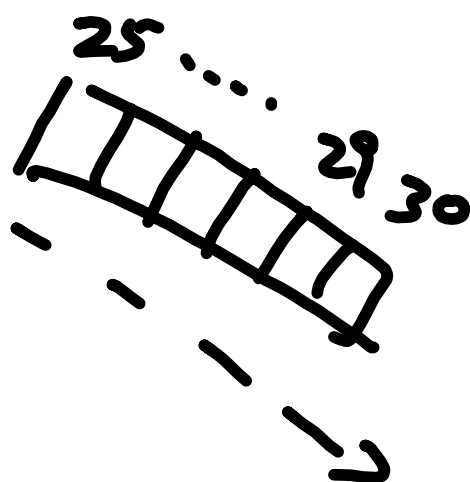


Loss: right after the 8th round, 3 duplicate event occurs
1 transmission round is about 1 RTT

Problem E.

close

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Datagram forwarding table

Destination Address Range	Link Interface
11001000 00010111 00010000 00000000 through 11001000 00010111 00010111 11111111	0 perfect range: (1) all addresses within this range share k-bit most significant bits, (2) the MIN address in this range is <k-bit common pattern>0...00 the MAX address in this range is <k-bit common pattern>1...11 MASK for this perfect range is
11001000 00010111 00011000 00000000 through 11001000 00010111 00011000 11111111	1 <k-bit common pattern>0...00 the MAX address in this range is <k-bit common pattern>1...11 MASK for this perfect range is
11001000 00010111 00011001 00000000 through 11001000 00010111 00011111 11111111	2 <k-bit 1's>0...00 , e.g., 111111111111111111111111000000000000 How to check if a given dest IP is within this range?
otherwise	3 (1) destIP ANDed with the MASK (2) result of (1) EORed with the MIN address of this range.

Q: but what happens if ranges don't divide up so nicely?