

HW3

PB19111713钟颖康

1.

01100010

10111001

100011011

00011100

11100011

传输过程中发生1bit翻转，变为01100000与10111011

01100000

10111011

100011011

00011100

11100011

结果不变，不能发现错误。

2.

(a) TCP Reno

(b) 32 MSS

(c) Timeout. ssthresh = 18 MSS, cwnd = 1 MSS

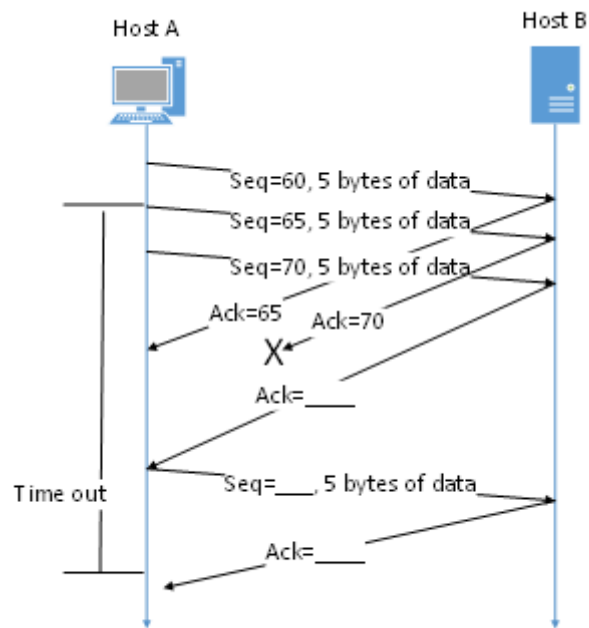
(d) Triple duplicate ACK. ssthresh = 12 MSS, cwnd = 15 MSS

(e) Timeout. ssthresh = 14 MSS, cwnd = 1 MSS

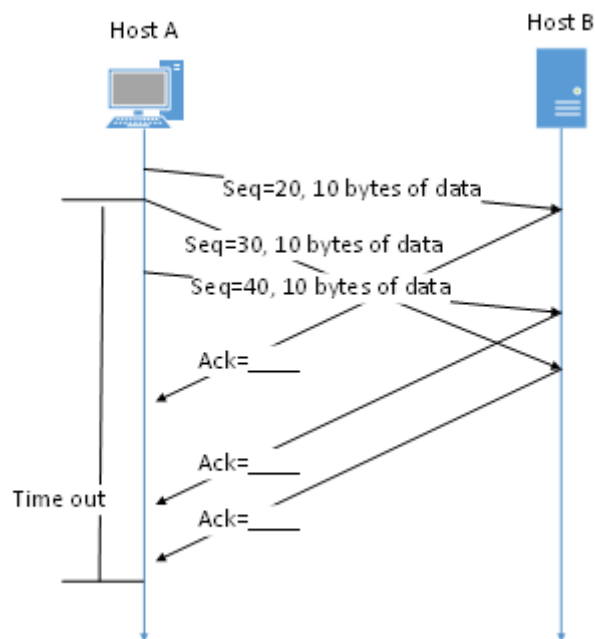
(f) Time 6

(g) [1, 6], [11, 16], [37, 41]

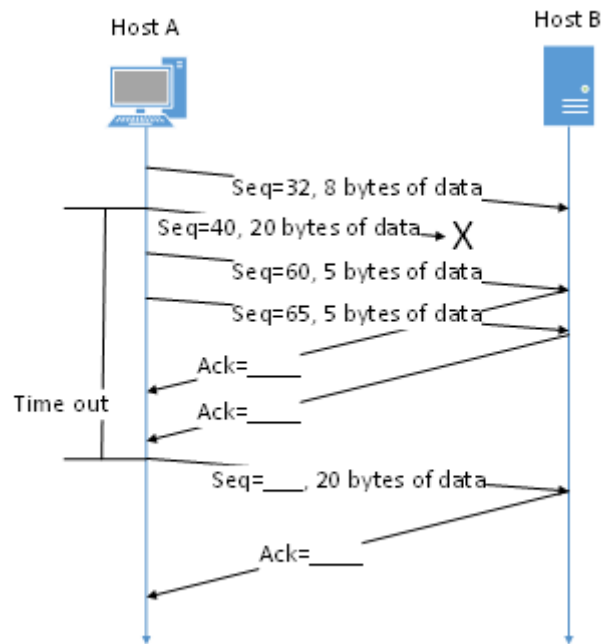
3.



从上至下: Ack = 75、Seq = 75、Ack = 80



从上至下: Ack = 30、Ack = 30、Ack = 50



从上至下: Ack = 40、Ack = 40、Seq = 40、Ack = 70

4.

1)

Round	A	B
1 st loss event	64 → 66 → 63	32 → 34 → 17
2 nd loss event	33 → 56 → 28	20 → 43 → 21
3 rd loss event	28 → 53 → 26	21 → 46 → 23
4 th loss event	26 → 51 → 25	23 → 48 → 24

2)

3次丢包之后, 差异在5Mbps以内