

Lab 3

1.
  - a. 192.168.1.102, 1161
  - b. 128.119.245.12, 80
  - c. 192.168.29.215, 50798
2. The initial segment has a sequence number of 3895223544 and is identified as a SYN segment by having the TCP flag for Syn set.
3. The reply segment has a sequence number of 1008537718 and the Acknowledgement field has a value of 3895223545. This is identified as a SYNACK because both the SYN and ACK flags are set for the TCP flags.
4. The sequence number of the TCP segment containing the POST command is 3895223545.
5.
  - a. First 6 segment numbers:
    - i. 3895223545
    - ii. 3895224189
    - iii. 3895225649
    - iv. 3895227109
    - v. 3895228569
    - vi. 3895230029
  - b. Time sent
    - i. 2016-05-07 15:15:05.924268
    - ii. 2016-05-07 15:15:05.925062
    - iii. 2016-05-07 15:15:05.925070
    - iv. 2016-05-07 15:15:05.925084
    - v. 2016-05-07 15:15:06.021388
    - vi. 2016-05-07 15:15:06.026666
  - c. Arrival Time
    - i. 2016-05-07 15:15:06.021348
    - ii. 2016-05-07 15:15:06.026643
    - iii. 2016-05-07 15:15:06.027582
    - iv. 2016-05-07 15:15:06.112163
    - v. 2016-05-07 15:15:06.117286
    - vi. 2016-05-07 15:15:06.124697
  - d. RTT
    - i. 97 ms
    - ii. 102 ms
    - iii. 103 ms
    - iv. 187 ms
    - v. 96 ms
    - vi. 98 ms
6. Length of first 6 segments
  - a. 698
  - b. 1514

Richard Moot

CS372

May 7, 2016

- c. 1514
  - d. 1514
  - e. 1514
  - f. 1514
7. The minimum buffer space is 5840 but eventually grows to a maximum of 62780.
  8. There is one retransmitted segment in the trace. Sequence 3895360613 was retransmitted for ack num 1008537719.
  9. The acknowledged sequence numbers is usually 1460
  10. 1750 bits/sec
  11. Between 0 and 0.8 seconds is when TCP is in its slow start phase. It appears slowly, and once it is out of the phase, it appears to increase linearly.
  12. Between 0 and 0.4 seconds is when TCP is in its slow start phase. It have long plateaus that eventually become steeper and steeper that demonstrate it coming of the slowstart phase.