# COMP90007 Internet Technologies Week 9 Workshop

Semester 2, 2019

In determining maximum packet lifetime, we have to be careful and pick a large enough period to ensure that not only the packet but also its acknowledgements have vanished. Discuss why this is needed.

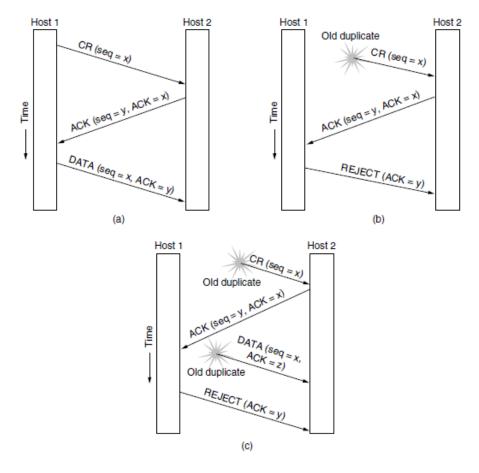


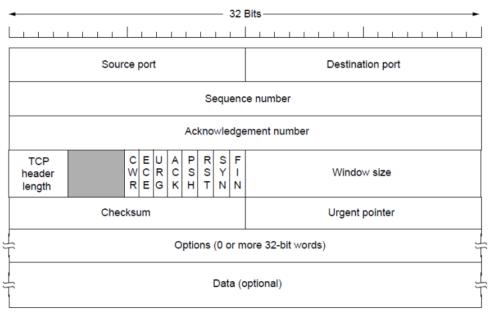
Figure 6-11. Three protocol scenarios for establishing a connection using a three-way handshake. CR denotes CONNECTION REQUEST. (a) Normal operation. (b) Old duplicate CONNECTION REQUEST appearing out of nowhere. (c) Duplicate CONNECTION REQUEST and duplicate ACK.

Imagine that a two-way handshake, rather than a three-way handshake were used to set up connections. In other words, the third message was not required. Are deadlocks now possible? Give an example or show that none exist.

Does the 3 way handshake based connection release protocol create a flawless disconnection?

What is the 2 army problem? Where does it occur in networking? Provide an example.

What information is sent with the TCP Segment header, explain each field briefly?



Describe with a simple flowchart how a single socket-based client-server communication works?