INF3190 Group lecture Lecture #9

Jan Anders Bremer

UiO - IFI

22.03.2013

Jan Anders Bremer INF3190 Group Lectures

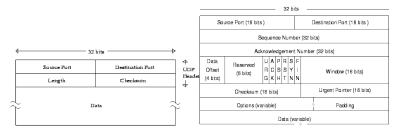
Phone: 91125994 Mail: janabr@ifi.uio.no IRC: janabr at irc.ifi.uio.no (currently in #ping.uio.no and #cyb, but you can always /msg me) Feel free to send questions, suggestions and feedback.

- Transport layer
- More TCP
- Protocol-fun

æ

- Not on intermediate systems
- Considered the end-point of your connection to the net (I5 is your application)
- Provides TCP and UDP.

- If the 4th layer is to be reliable it must provide the following reliably:
 - Establishment
 - Communications
 - Tear-down
- For reliability: TCP (file transfers, http). Connection-oriented (more secure and reliable)
- For speed and performance: UDP (voice chat, streaming). Connection-less (faster)



• Image-source: link

э

(日) (同) (三) (三)

- SYN SYN-ACK ACK
- Two Generals' Problem SYN SYN-ACK

- We use ports to differentiate processes. We do not use port = pid as we want to be able to give any port to any process (web servers running on port 31337? hardly.)
- Max payload for TCP 65495 (40 bytes for headers, max size of a packet 65535)