

CS2105 Tutorial 3

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February 19, 2020

Contents

1. Network diagnostic tool
 - (a) `POST`
 - (b) `POST` sends data to server, while `GET` fetches data from server
2. Not sure
3. TCP needs to establish connection with server before sending. **TCPEchoClient** will end because it cannot create a socket without a receiving server.

On the other hand, **UDPEchoClient** just fires datagrams mindlessly and when the server comes online, response will be received from the server.
4. The Datagram headers contain the source IP and ports, so the server can distinguish the datagrams from different hosts that way.
5. $01011100 + 01100101 = 11000001$ has 1s complement 00111110
 $11011010 + 01100101 = 100111111$ overflows to 01000000 has 1s complement 10111111
6. No. It can correspond to overflown values too, where 01000000 can be a sum of the 2 numbers as in question 5 part 2, it can also be the sum of 00000000 and 01000000 which are corrupted inputs.
7. We can accidentally ack the wrong package due to delay in receiving the message.