

EE129 Computer Communication Networks

Spring Semester 2024

Notes 4 (2/21/24)

Project 1:

a) Research IP and report as comprehensive as possible with references clearly identified and listed at appendix in your report on the following subjects.

- (1) How routing work in the system based on classes A, B and C Internet address? What are routing tables? How are they created? How big are they? How do they work?
- (2) Repeat (1) for CIDR
- (3) How do both systems coexist?
- (4) How does IPv6 work?
- (5) How does CIDR work under IPv6?
- (6) Please explain how to translate between IP v4 and IP v6 addresses and give an example.

b) There are two types of communications in OSI network model: end-to-end communication and node-to-node communication. The upper four layers are end-to-end communication and the lowest two layers node-to-node communications. Please discuss the function of the third layer (Network Layer). What type of communication will you assign it to? Please give your reason.

Please be thorough, precise and comprehensive in your research and report. A **typed technical** report is due at 11:59 pm on Thursday, Feb. 29.