

CS447-002: Lecture Note (Lecture #15, March 13, 2024)

1. Pick up:

- Attendance card

2. Announcements:

- Next quiz (Quiz #6) is scheduled on 3/18.

3. Project #2 introduction

- Wireshark demonstration

4. Project #3 will be introduced on 3/13 (only to the graduate students)

- Will be emailed to graduate students.

5. Medium Access Control (MAC)

- Concept (“What is MAC for?”)
- Three different types of “MAC” (central MAC, token MAC, contention MAC)
- CSMA (Carrier Sense Medium Access) contention MAC – the standard MAC for Ethernet
 - Packet collisions
 - Persistency algorithms (no-persistent, 1-persistent, p-persistent algorithms)
 - Performance analyses (as exercises)
- CSMA-CD (Carrier Sense Medium Access with Collision Detection)
 - BEB (Binary-Exponential-Backoff) algorithm
 - Performance analyses (as exercises)

6. Quiz #6 preview