

Final Review

CSE 421/521

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Place and Time

- ◆ Date : December 16, 2005
- ◆ Time : 11.45 AM – 2.45PM
- ◆ Place : Kimbal 111 (South Campus)
- ◆ Please bring
 - calculators
 - 2 A4-size sheets of any information you may need.
 - Pencils, pens and erasers.

Topics

- ◆ Processes, scheduling and synchronization (Chapter 3, 5)
- ◆ Deadlocks (Chapter 7)
- ◆ Memory management (Chapter 8,9)
- ◆ File System (Chapter 10,11)
- ◆ Disk IO (Chapter 12)
- ◆ Networking (nachos and Internet, socket API)
- ◆ Protection and Security (Chapter 14, 15, classnotes)
- ◆ Nachos Operating System
- ◆ Class notes on all the chapters

Specific Sections

Chapter 3: 3.1 - 3.7

Chapter 5: 5.1—5.5

Chapter 7: 7.1 – 7.6

Chapter 8: 8.1 – 8.5

Chapter 9: 9.1 – 9.7

Chapter 10: 10.0 – 10.6

Chapter 11: 11.1 – 11.6

Chapter 12: 12.1 – 12.7

Chapter 14: 14.1 – 14.8

Chapter 15: 15.1 – 15.6

Class notes on Security, Networking

Project experience with nachos: project 2 and 3

Format

- ◆ 5 major questions 20 points each; may have many subsections.
- ◆ 5 minor questions 10 points each

Tentative Question Topics

◆ Major Questions

- Deadlock
- Memory Management
- File systems (unix inode etc.)
- VM address translation
- Page replacement policies

◆ Minor questions:

- Process /threads management, synchronization
- Networking and socket API
- Security/protection
- Nachos Project 2 and project 3
- Disk Scheduling, Mass storage structure, disk IO allocation