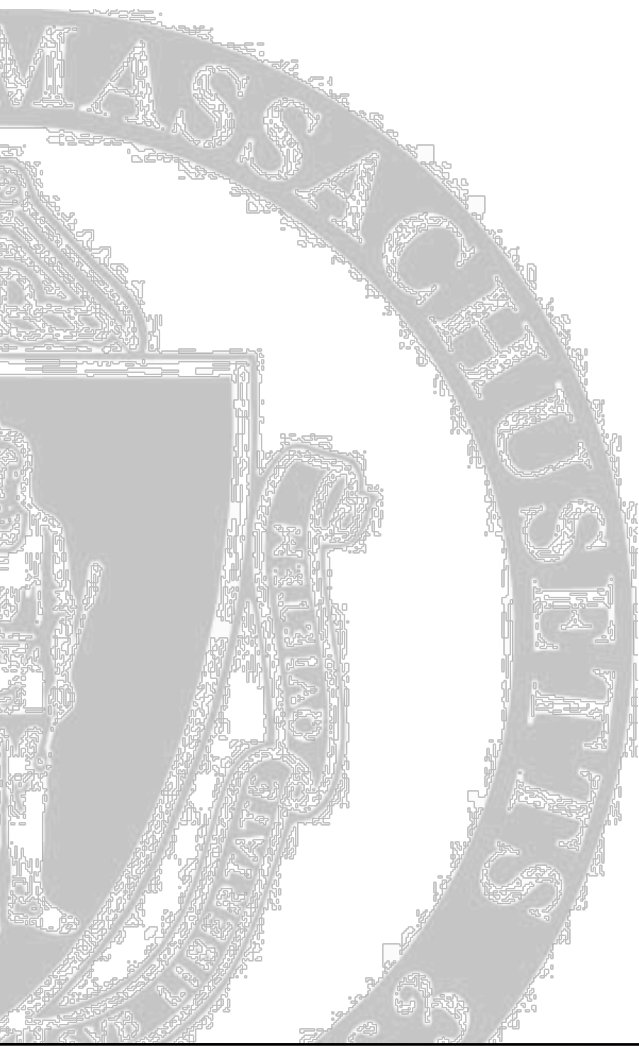


CMPSCI 377: Operating Systems

Discussion 2

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Administrivia

- TA hours this Friday (9/14) moved to 9:30-11 AM
 - (as always, can email with questions or for appointments)
- Discussion materials linked from schedule page
 - <http://lass.cs.umass.edu/~shenoy/courses/377/lectures.html>
 - Also will be posting videos of lectures (first few up now)
- Will not be relying on building wifi...

Today: Concepts, Syscalls, Nachos

- Review OS design concepts from lecture
- Look at a few concrete examples of system calls
- Briefly introduce the Nachos system

The Nachos System

- Nachos is a toy operating system written in Java
- Implements most key OS components, including:
 - Threading
 - File system
 - Address translation
 - System calls
- We'll be using Nachos for a few of the programming assignments
 - First one will involve modifying system calls in Nachos

Installing Nachos

- Nachos executes C programs compiled to the MIPS architecture
 - Probably not what your machine is running...
 - We need to use a cross-compiler
- Instructions on getting Nachos up and running will be posted shortly on the discussion page
 - Make sure you're set up either on your own machine or on an EDLAB machine
- Assignment 1 will be posted shortly as well
 - Two parts: programming using some system calls and then working with syscalls in Nachos
 - Still waiting on several course collaboration policies...