

# EECS 211: Advanced System Software Lecture 5

Rainer Dömer

doemer@uci.edu

The Henry Samueli School of Engineering  
Electrical Engineering and Computer Science  
University of California, Irvine

## Lecture 5: Overview

- Course administration
  - Prerequisite Quiz
  - Solution and Results
- Storage Management
  - Memory Management

## Course Administration

- Prerequisite Quiz
  - Results
    - Quite positive, everybody seems well-prepared!
  - Solution
    - PrerequisiteQuiz\_Solution.pdf
  - Why are dinosaurs shown on the text book cover?
    - Analogies between dinosaurs and operating systems:
      - Evolution and adaptation (old, bulky OS are dead now...)
      - Small brain (OS kernel) controls large body (system)
      - Environment, food (resource) allocation, starvation, ...
      - The bigger, the slower! (Too big, extinct...)
      - ...
    - Marketing!
    - Lack of better ideas (?)
    - Quote: “[...] is a warning: [...] whatever we are studying right now, is going to become obsolete soon!”
      - (NO! Concepts don't change!)

EECS211: Advanced System Software, Lecture 5

(c) 2005 R. Doemer

3

## Storage Management

- Excerpts from chapter 9 of  
“*Operating System Concepts*”  
by A. Silberschatz, P. B. Galvin, G. Gagne,  
John Wiley & Sons, 2003.
- Background
- Swapping
- Contiguous Memory Allocation
- Paging
- Segmentation
- Summary

EECS211: Advanced System Software, Lecture 5

(c) 2005 R. Doemer

4