Operating Systems

CS 3013

Topics

- Background
- Admin Stuff
- Motivation
- Objectives
- Operating Systems!

Professor Background

- Dr. Mark Claypool (professor, "Mark")
- Systems guy
  - operating systems
  - distributed systems
  - collaborative systems
  - (multimedia performance, network games)
- TRS-DOS, MS-DOS, Win95, Solaris
- *Windows* and *Linux*

Student Background

- Who are you?
  - Name
  - Class (freshman, junior …)
  - Major (CS, EE, Basket Weaving ...)
- C experience
- Intro course: cs1005, cs1006, other?
- Linux experience
- Operating Systems?
- Other (Super Bowl predictions)

Syllabus Stuff

- http://www.cs.wpi.edu/~claypool/courses/3013-A05/
- TAs: Mingzhe Li, Feng Li
- Office hours: (see Web page)
  - TBD
- Email
- Text Book(s)

Course Structure

- Prerequisites
  - C programming (must)
  - Machine organization (recommended)
    + Chapter in Silberchatz text
  - Unix (recommended)
- Grading
  - Homework and/or Quizzes (10%)
  - Exams (50%)
  - Projects (40%)
  - Attendance (100% … kidding)

Homework and Quizzes

- Designed to get you ready for exam
  - (And maybe encourage you to come class)
- Stress ideas taught in class
  - (So, come to class)
- Maybe done in groups, but specified in class

Exams

- 2 exams
- 50% of grade
- Non-cumulative
- Closed-note
- Closed-book
- Closed-friend

Projects

- 4 projects (plus some extras)
- Implementation in Linux!
  - "Fossil Lab"
  - Assigned clients (see TA)
- Groups!
- Project 0
  - Linux dabbling
    + admin, tools, kernel ...

Slides

- Trying notes on the whiteboard
- But slides on the Web
  - Powerpoint and PDF
- Caution! Don't rely upon the slides alone!
  Use them as supplementary material
  - (so, come to class)

Why This Class?

- WPI CS requirements
  - "core course" for majors
- Combines CS concepts
  - algorithms, languages, data-structures, hardware
  - system design w/tradeoffs
- Better use of the computer
- C programming in Unix environment
  - Networks, Distributed Computing Systems, WebWare
- Fun!