Operating Systems

CS 502

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)
- TRS-DOS, MS-DOS, Win95, Solaris
- *WindowsNT/2000* and *Linux*

Student Background

- Who are you?
  - Name
  - Year (freshman, junior …)
  - Major (CS, EE, ND, Basket Weaving ...)
- C experience
- Previous degree and where
- Operating Systems?
- Other

Syllabus Stuff

- http://www.cs.wpi.edu/~claypool/courses/502-Su03/
- TAs: (hopefully)
- Office hours: (by appointment)
- Email
- Text Book(s)

Course Structure

- Prerequisites
  - C programming (must)
  - Machine organization (recommended)
    - Chapter 2 in Silberchatz text
  - Unix (recommended)
- Grading
  - Exams (60%)
  - Projects (40%)
  - Attendance (100% … kidding)

Exams

- 2 exams
- 60% of grade
- Non-cumulative
- Closed-note
- Closed-book
- Closed-friend

Projects

- 3 projects (maybe some extras)
- Implementation in Unix
  – If Windows, then you are on your own
- Groups!
- Project 0
  – Unix dabbling
  – Not due
- Project 1
  – Due in about 2 weeks

Slides

- On the Web
- Powerpoint and PDF
- Caution! Don't rely upon the slides alone! Use them as supplementary material
  – (come to class)

Why This Class?

- WPI CS requirements
  – "core area" for grads
- Combines CS concepts
  – algorithms, languages, data-structures, hardware
  – system design w/tradeoffs
- Better use of the computer
- C programming in Unix environment
  – Foundation for systems work, other courses
- Fun!