CSMC 412

Operating Systems

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Today

- Review Syllabus
  - read the warning about the size of the project
  - make sure you get the 6th edition of the book
- Program #0 Handout (posted Aug 31)
  - its due in just over one week
  - purpose is to get familiar with the simulator/compiler/debugger
- Class Grades Server
  - Grades.cs.umd.edu
- Discussion Sections
  - will focus on the project and meet only once a week (W)
    - Probably will have three times per week; you can attend the section of your choice. See web page for details.
- Reading
  - Chapter 1
  - Chapter 2

Cyclone

- Based on C
  - Low-level control over memory management, data representation, and access to the machine
- But type-safe !!
  - Rules out many hard-to-find bugs and security holes
    - Buffer overflows
    - Dangling pointers
  - These bugs have killed many projects

Cyclone in this class

- You are required to use it for project 0, to get familiar with it
- From then on it is optional
  - Could very well make your project more reliable, and prevent bugs
  - But, it's a research compiler, and it will have bugs itself, and may have cryptic error messages.
    - If a major problem in the compioler inhibits a good-faith attempt to complete the project, you will not be penalized.

Cyclone in this class

- Completing at least one project using Cyclone (from project 1to 6) will net you some extra credit
  - You must include a write up of your experience, including
    - what features you used,
    - what difficulties you ran into and
    - suggestions for improvements
  - See
    http://www.cs.umd.edu/projects/cyclone/

Class Grades Server

http://grades.cs.umd.edu

- Get your LinuxLab account from here
  - CS computing cluster. Projects must work and be submitted on these machines
- Complete grade information
- Interface for requesting regrades on exams and projects