Introduction

Operating Systems Practicum
CS 4411
Cornell University

Lectures

• Friday 3:35-4:25pm (~every 2 wks), Gates G01
• Today is Lecture #1
• Next Friday is Lecture #2
• Lecture #3 TBD...
  ▪ Online schedule coming soon!
  ▪ Website under construction

Enrollment

• Anyone in 4410 and not in 4411
  ▪ As long as you are in 4410, you should now be able to enroll in 4411. If you are having trouble, please email cs-course-enroll@cornell.edu

Office Hours

• There is only one Google Calendar for 4410/4411 Office Hours
• TAs that list their hours as “4410 OH” have not taken 4411. Do not ask them about the projects.
Piazza

- We have our own Piazza
  - Please don’t post 4411 questions to 4410
  - Please don’t post 4410 questions to 4411
  - Don’t post code!

Projects

- If you are enrolled in 4410 & 441, you are only required to do Mini-Project #1 (of 4410). MP1 is an individual assignment
- (If you are only enrolled in 4411, you do not need to do MP1)
- You have 6 Projects in 4411
  - done in pairs
  - Odd # of students → 1 groups of 3 with permission

- Have a partner?
  - Yes? Great!
  - No? Find one here!

Grading

- CS4410 Grade Breakdown
  - ~10% MP1
  - ~30% 4411 Projects (%5 for each of 6 projects)
  - ~12% Prelim 1
  - ~18% Prelim 2
  - ~25% Final
  - ~5% Flexgrade (participation, attitude, effort)

- CS4411 Grade Breakdown
  - ~90% Projects – pair grade
  - ~10% Flexgrade (participation, attitude, effort) – individual grade

PortOS

- Most projects in PortOS
- Runs on Linux
  - No linux?
    - VirtualBox + Ubuntu
    - CSUG lab machines
  - Verify a working environment when TAs are readily available
- Begins with some code base (not a blank file)
- Projects Build
  - Project n+1 will include your Project n code
- Tools like gdb, valgrind, purify are not going to play nicely with your assignments...
A word about C

• All 6 projects are in C
• Project #1 likely released Tuesday
  • If your C is rusty → brush up NOW
• You should know:
  • Pointer arithmetic
  • Malloc, realloc, free
  • Typedefs, Type casting
  • void *, void **
  • Function pointers
  • Basic data structures (linked lists, etc.)

Partner Search

• Partners were found today
• Everyone else: please post to 4411 piazza