CSE 451 Section 4

- Project 1 Notes

- Looking ahead: Project 2

Project 1 Notes

- Project 1

  - Due Tomorrow At 11:59pm!

- Make it obvious who is in your group in write-up

- Follow turnin instructions again – good job last time

  - Only one team member needs to use turnin

  - No turned in files should be outside of your "username-project1" directory!!!!!!!!!

Project 1 Notes

- For changed Linux source files:

    - Give full path names in your modified files write-up

        - USE "./arch/i386/kernel/process.c"
        - NOT "process.c" – there are many of these

    - Maintain directories when submitting changed files:

        - When I extract your changed files, they should go to the right directory, so it is unambiguous which file you changed
        - This is easy to do with tar

Project 1 Notes

- Libc wrappers versus syscalls?

  - Trace the code!

- Fork versus Clone?

  - Trace the code!

- Returning info from syscalls?

  - access_ok() checks pointers

  - copy_to_user()

    - Use LXR to trace what it actually does!

  - return values work as well

Ryan Should Now Show Code

- This is a reminder that Ryan should show code now

Looking Ahead: Project 2

- Project two: User-Level Threads!

  - Implement a user-level thread manager.

  - Add a set of common synchronization primitives to your thread package.

  - Implement a simple synchronization problem.

  - Add preemption to your thread package.

  - Implement a multithreaded web server to test your thread package.

  - Analyze your design and report test results.

Project 2 Goals / Admin

- Learn how context switching is done

- Learn how to preempt

- Learn how to write correct multi threaded code

- Generally project groups will be the same

- One Steve has released the project, we will go into more detail at next week's section

Questions

- Office hours at 2:30 in CSE 002

- Use GoPost!
    - https://catalysttools.washington.edu/gopost/board/arcanius/11020/

- I'll probably be in the labs on and off over the next couple of days