UNIX Review

CS 2204
Class meeting 15
Study Hints

- You should have:
  - Read all required material
  - Finished all labs
  - Completed all assignments
  - Attended all lectures
  - Reviewed all notes
Study Hints cont.

- When writing the final, I
  - Focused on the details that support major topics
    - Does not mean there are no details
    - Does mean that I didn’t try to major on the minors
  - Did not focus on all commands & options
  - Did not focus on C syntax
  - Tried to cover things not in the projects
  - A few questions assume you attended class!
  - A few questions are from the labs
  - A few questions are from the readings
Study Hints cont.

- 3 questions, 5.?? points each, total=\(~190
- Multiple choice, true/false, and other innovative scantron questions:
  - 5.) What is the first digit of the number between 14 and 16?
  - 6.) What is the second digit of the number between 14 and 16?
  - 7.) How many of the following choices are correct? (Enter a number between 0-9.)
No Extra Credit on Exam

- 2 hour test, most will complete in <1h
- (You do have the extra credit assignment you can do, remember?)
What should you know?

- What is UNIX vs. Linux
- Who is Ken Thompson and Dennis Richie?
- All commands that were covered outside of just the readings
  - ls, chmod, egrep, awk, sed, perl, mv, rm, cd, etc etc etc.
What should you know cont.

- Absolute vs. relative paths
  - Directory traversal
- Links
- Familiar with standard directories
- What each element in ls means (I-nodes?)
- File ownership, chmod
- File editing (vi, modes, major commands)
What you should know cont.

- I/O Redirection
  - > >> | <
  - Pipe and Filter

- Regular Expressions
  - I’m not going to review this here
  - Special characters, metacharacters
    - egrep vs grep
    - Be able to do regular expressions
What you should know cont.

- X Windows, the layers, what each do
  - Client vs. Server
  - See the lab for practical application

- Different Shells
  - Alias, major system variables
    - Eg, how to change the prompt
  - Login scripts
  - &

- Shell Scripting: At a higher level, no details
What you should know cont.

- makefiles, gcc
  - What is a dependency
  - What is a target
  - For gcc, what do -H -l -L -o -c mean?
- gdb, rcs
What you should know cont.

- Parts of the UNIX OS
- File descriptors
- Process management
  - fork, exec, wait, waitpid
- Inter-process communication (IPC)
  - pipes
- Signal handling
System Administration

- Know the files, what they do
- Eg, be able to read a crontab file and say what it's doing and when

- Be able to read an sed and/or awk script and tell what it does

- What is perl?
After the test...

- **Exam**
  - Sat, July 3, 1 pm - 3:00 pm
  - Grades should be posted by 5:00pm
    - May give a curve on final, probably won’t
  - Office hours immediately after test for questions
  - Grades finalized by 5:00
  - Will post final letter grades
    - Assume the 10 point scale,
    - X8.0 to X9.9999 is a plus
    - X0.0 to X1.99999 is a minus
    - No rounding!