



EECS 280

Discussion #1

Week of Jan 7



Outline

- **Administrivia**
- Assignment #1
- CAEN Access
- The Linux Environment
- Projects



About Me

- Nate Derbinsky
- Contact
 - 3844 CSE
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- Office Hours
 - Wed: 11:10-11:50 (BI00, Undergrad Library)
 - Fri: 1:00-4:00 (CAEN West, CSE)



Review Course Info

- Communication: Phorum
- Policies
 - Academic Integrity
 - Regrade
- Projects
 - CAEN Linux
 - Grading: correctness, principles, style



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Assignment #1

- Due 1/15 @ 11:59 PM
- Submission via script
- Start early, make backups, ask for help



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CAEN Access

- Physical Access
 - CSE: 1st floor
 - Duderstadt: 2nd, 3rd floors
 - Shapiro Library: basement, 2nd floor
- If running Windows, reboot to Linux



CAEN Access

- Remote: SSH
 - Host: `loginlinux.engin.umich.edu`
 - Windows: Secure Shell Client, PuTTY
 - Mac: `ssh`



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Useful Commands

- `man <command>` = “manual”
- `pwd` = “print working directory”
- `ls <dir>` = “list”
- `mkdir` = “make directory”
- `cd <dir>` = “change directory”
 - “.” and “..”



Useful Commands

- `cp <src> <dst>` = “copy from source to dest.”
 - `cp -R <dir1> <dir2>` = “copy recursively”
- `mv <src> <dst>` “move from source to dest”
- `rm <file1> <file2>...` = “remove files”
- `rm -R <dir>` = “remove recursively”



Linux Concepts

- Case sensitivity
- Up/Down command access
- Tab completion



Emacs Editor

- Graphical & Text-mode Editor
- Most commands are two-key combinations
 - `ctrl-x, ctrl-c` = “quit”
 - `ctrl-x, ctrl-s` = “save”
- See CTools, Resources for Reference Card



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Compiling

- GNU C++ (g++)
- `g++ -Wall -Werror -m32 f1.cpp f2.cpp ...
fn.cpp -o myprog`
 - `-Wall` = turn on compiler warnings
 - `-Werror` = do not compile code with warnings
 - `-m32` = 32-bit mode
 - source files (no header files)
 - `-o` = output file



Running

- `./myprog`
 - Linux looks in a `PATH` variable for executable files. `./` tells it to look in the current directory for `myprog`
 - Do NOT call your program `test` since Linux has such a program



Submission

- program: submit280
 - /afs/engin.umich.edu/class/perm/eecs280
- syntax
 - submit280 <proj #> <files>
- MUST be logged into loginlinux



Submission Path

- Sends files to grading machine
- Grading machine checks time (relative to due date)
- If before due date sends a confirmation e-mail