

CmpE130 Homework 1

Due date: 3 Sept. 2009

In the following questions, show the UNIX commands you use and the results (all, or partial if it is long).

1. Show the UNIX command syntax required to produce a directory listing containing the `.bash_profile` file that is located in your home directory.
2. Redirect the standard output from the UNIX `date` command so that this output is put in a file named `info`.
3. Append the output from the `ps -ef` command to the file created in the last step, `info`. (Use the `>>` symbol.) Then use `more` to view the contents of the file (`more info`).
4. Now, re-direct the output of the `set` command to the file named `info`. In this step of the exercise, use the re-direction symbol `>`. Again, use `more` to view the contents of the file. How has the file changed? Why?
5. List the files in the directory `/bin` that end in `sh`. What command did you use?
6. You want to know the number of files and directories located in your home directory. To do this, you can combine the command `ls -al` and `wc -l` in a pipeline, feeding the standard output from the `ls` command in to the standard input of the `wc` command. Write the pipeline command in the proper order below, and test it at your terminal.
7. File permissions in UNIX are frequently specified as an octal number. Why is octal the preferred base for this purpose?