Process Management

Hands-On Unix System Administration DeCal

Lab 5 — 1 October 2012 Due 8 October at 6:10 PM

- 1. What is the difference between a job and a process?
- 2. What are signals? Name a way a user can send a signal to a process.
- 3. Describe how you would:
 - (a) suspend the foreground job
 - (b) move a suspended job to the background
 - (c) bring back a suspended job to the foreground
- 4. What is a zombie process, and how can you kill it?
- 5. What does the following crontab entry mean?

```
00,30 09-17 * * 1-5 find /tmp -atim +30 -exec rm -f \{\}\
```

- 6. Create a crontab entry to execute a script called backup.sh, located in your homedir, run at 1:00am every Monday and Friday. Clarification: You don't write the actual backup.sh script, we just want the crontab entry you would have.
- 7. How can you find the PID of your shell you are currently using without ps?
- 8. What's init's PID? What about its PPID?
- 9. What happens when a process's parent dies if:
 - (a) That process was started with nohup (lookup nohup), and back-grounded
 - (b) That process was just running in the background
- 10. What is init's PID? What about it's PPID? Does init have a parent?
- 11. Devise a simple pipeline that counts the number of processes currently running on your system
- 12. When wouldn't kill -9 work?