

CIS 68C1

Homework 2

Due: October 8th, 2001

Instructions: Answer the following questions in your own words; do not copy words from the book, other sources, or other students – rather, summarize your understanding and comprehension of the material. Remember, the goal here is to explore the system and to *learn!* You may simply copy the questions below to a word processor, and then type your answers below the questions. Bring your printed answers with you to class on the due date above – we will go over the questions and answers then. Remember, your answers must be typewritten (sorry - no email this time).

1. Take a look at the `/etc/rc#.d` startup directories used to boot Linux. Run `ls -l` on each of these directories. You should find that all the files are symbolic links. Where do these links point (i.e. where are the actual files)?
2. What init levels typically correspond to single user and multi-user mode?
3. What does the “telinit” command do, and what is it used for?
4. There is a single command that will output just the currently running init level in RedHat Linux? What is the command's name, and what is its output when run during multi-user mode? Hint: Look at the SEE ALSO section of the man page for telinit.
5. What is the name of the program used to boot Linux?
6. What are the names and PIDs of the first 5 processes in Linux?
7. What do you suppose the [3] means in the CMD field of the `ps -ef` output for process id 1?
8. The `/etc/rc#.d/*` startup scripts expect an argument – what is this argument and what are two typical values for the argument?
9. What makes the root user, UID 0, so special?
10. How many different Manual sections are there in RedHat Linux? What are the names and numbers of the sections you as an administrator would use?
11. What are the various ways the system can be safely powered down or rebooted?
12. Can user “sam” temporarily become user “sally”? If so, how is this accomplished?
13. Describe why it is poor practice to use the root account as a general user account?
14. Which runs first in Linux: `S80sendmail` or `S20netfs`?
15. Take a look at the `/etc/rc3.d/K20nfs` and `/etc/rc3.d/S15nfs` startup scripts. What do you notice about these two scripts?