12.9. TOP OPTIONS



Exercise 12.1 Processes

- 1. Run ps with the options -ef. Then run it again with the options aux. Note the differences in the output.
- 2. Run ps so that only the process ID, priority, nice value, and the process command line are displayed.
- 3. Start a new **bash** session by typing **bash** at the command line. Start another **bash** session using the **nice** command but this time giving it a nice value of 10.
- 4. Run ps as in step 2 to note the differences in priority and nice values. Note the process ID of the two bash sessions.
- 5. Change the nice value of one of the **bash** sessions to 15 using **renice**. Once again, observe the change in priority and nice values.
- 6. Run \boldsymbol{top} and watch the output as it changes. Hit q to stop the program.

Solution 12.1

```
1. $ ps -ef
  $ ps aux
2. $ ps -o pid,pri,ni,cmd
    PID PRI NI CMD
   2389 19
             0 bash
  22079 19
              0 ps -o pid,pri,ni,cmd
  (Note: There should be no spaces between parameters.)
3. $ bash
  $ nice -n 10 bash
  $ ps -o pid,pri,ni,cmd
      2389 19 0 bash
  22115 19 0 bash
  22171 9 10 bash
        9 10 ps -o pid,pri,ni,cmd
4. $ renice 15 -p 22171
  $ ps -o pid,pri,ni,cmd
    PID PRI NI CMD
   2389 19 0 bash
  22115 19 0 bash
  22171 4 15 bash
  22246 4 15 ps -o pid,pri,ni,cmd
```

5. \$ top

LFS201: V_2017-12-01

