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Exercise A

Step 4

top - 19:05:55 up 34 min, 2 users, load average: 3.39, 1.07, 0.41
Tasks: 231 total, 5 running, 226 sleeping, 0 stopped, 0 zombie
%Cpu(s): 40.7 us, 59.3 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem: 995896 total, 70972 free, 687500 used, 237424 buff/cache
KiB Swap: 2097148 total, 2005244 free, 91904 used. 46808 avail Mem

PID USER	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+ COMMAND	
10109 root	20	0	107996	620	524 R	24.9	0.1	0:19.64 dd	
10107 root	20	0	107996	620	524 R	24.6	0.1	0:23.41 dd	
10108 root	20	0	107996	620	524 R	24.6	0.1	0:20.19 dd	
10110 root	20	0	107996	616	524 R	24.6	0.1	0:18.99 dd	

These are the top-most intense processes on my Linux machine. The load averages are 3.39, 1.07, and 0.41.

Step 5

My current cpu load is at 40.7%.

Step 8

```
File Edit View Search Terminal Help
top - 19:12:01 up 40 min, 2 users, load average: 4.67, 3.41, 1.68
Tasks: 230 total, 5 running, 225 sleeping, 0 stopped, 0 zombie
%Cpu(s): 34.2 us, 62.8 sy, 3.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 995896 total,
                         63884 free, 675168 used, 256844 buff/cache
KiB Swap: 2097148 total, 1984764 free,
                                        112384 used.
                                                      49356 avail Mem
 PID USER
              PR NI VIRT
                              RES SHR S %CPU %MEM TIME+ COMMAND
 10110 root
               20
                    0 107996
                                564
                                       472 R 29.0 0.1
                                                        1:49.22 dd
 10108 root
               20
                    0 107996
                                568
                                       472 R 28.7 0.1
                                                        1:50.41 dd
                                       472 R 28.7 0.1
 10109 root
               20
                    0 107996
                                568
                                                        1:49.85 dd
 10107 root
               25
                    5 107996
                                568
                                       472 R 9.6 0.1
                                                        1:52.44 dd
 8193 jesseru+
               20
                    0 3061332 189208 44724 S
                                             2.0 19.0
                                                        0:14.49 gnome-shell
                                                        0:06.20 X
                    0 408556 108408 70652 S 1.3 10.9
 7355 root
               20
```

Process 10107 has moved to the bottom of the dd processes with a niceness of 5

Step 10

```
top - 19:14:41 up 42 min, 2 users, load average: 3.34, 3.54, 2.02
Tasks: 226 total, 1 running, 225 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.7 us, 0.3 sy, 0.0 ni, 99.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 995896 total,
                           70812 free, 668636 used, 256448 buff/cache
KiB Swap: 2097148 total, 1980668 free,
                                          116480 used.
                                                         56144 avail Mem
                PR NI VIRT
                                  RES SHR S %CPU %MEM
  PID USER
                                                            TIME+ COMMAND
  8193 jesseru+ 20
                    0 3061348 183948
                                      41136 S 0.7 18.5
                                                           0:15.56 gnome-shell
  7355 root
                20
                    0 408572 108608 70852 S 0.3 10.9
                                                           0:06.74 X
              20
                                        1536 S 0.0 0.3 0:01.93 systemd
                    0 193808
                                3440
    1 root
                        0
                                         0 S 0.0 0.0 0:00.00 kthreadd
     2 root
               20 0
                                 0
                        0 0 0 S 0.0 0.0 0:00.12 ksoftirqd,
0 0 0 S 0.0 0.0 0:00.00 kworker/0:
0 0 0 S 0.0 0.0 0:00.00 migration,
0 0 0 S 0.0 0.0 0:00.00 rcu_bh
0 0 0 S 0.0 0.0 0:00.55 rcu_sched
               20 0
     3 root
                                         0 S 0.0 0.0 0:00.12 ksoftirqd/0
                0 -20
                                         0 S 0.0 0.0 0:00.00 kworker/0:0H
     5 root
               rt 0
                                         0 S 0.0 0.0 0:00.00 migration/0
     7 root
     8 root
               20 0
               20 0
     9 root
                                           ac aa aa a.aa aa leu add deain
```

All of the dd processes have been killed

Exercise B

Step 3

```
-rw-r--r. 1 root root 613376000 Nov 19 19:20 homefullbackup.tar [root@localhost bk_folder]# ls -lh total 585M
-rw-r--r. 1 root root 585M Nov 19 19:20 homefullbackup.tar [root@localhost bk_folder]#
```

The home directory was backed up and the size is 613376000 bytes, or 585 megabytes.

Step 5

```
-rw-r--r-- 1 root root 443034596 Nov 19 19:27 homefullbackup.tar.gz [root@localhost bk_folder]# ls -lh total 423M -rw-r--r-- 1 root root 423M Nov 19 19:27 homefullbackup.tar.gz [root@localhost bk folder]#
```

The home directory backup file was deleted and a new, compressed file was created. This is 443034596 bytes, or 423 megabytes.

Step 8

```
[root@localhost /]# cd /home/jesserussell
[root@localhost jesserussell]# 
root@localhost:/home/jesserussell
```

My user's home folder has been restored.