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February 4th

Assignment 0206

1. What root-owned processes are running?

The root-owned processes that are running are shown in the image below

Commands used: \$ ps -u root

```
r2d3zs-MacBook-Pro:~ carlos$ ps -u root
UID  PID TTY      TIME CMD
 0   1 ??        0:01.90 /sbin/launchd
 0  11 ??        0:00.39 /usr/libexec/UserEventAgent (System)
 0  12 ??        0:00.72 /usr/libexec/kextd
 0  13 ??        0:00.71 /usr/libexec/taskgated -s
 0  14 ??        0:00.74 /usr/sbin/notifyd
 0  15 ??        0:00.55 /usr/sbin/securityd -i
 0  16 ??        0:00.10 /usr/sbin/diskarbitrationd
 0  17 ??        0:02.16 /usr/libexec/configd
 0  18 ??        0:01.96 /System/Library/CoreServices/powerd.bundle/power
 0  19 ??        0:00.59 /usr/sbin/syslogd
 0  20 ??        0:07.91 /usr/sbin/distnoted daemon
 0  21 ??        0:00.98 /usr/sbin/cfprefsd daemon
 0  22 ??        0:03.29 /usr/libexec/opendirectoryd
 0  39 ??        0:02.82 /System/Library/CoreServices/coreservicesd
 0  41 ??        0:03.67 /System/Library/Frameworks/CoreServices.framework
 0  45 ??        0:00.02 /usr/libexec/wdhelper
 -2  46 ??        0:00.15 /usr/libexec/warmd
 0  50 ??        0:00.03 /usr/libexec/stackshot -t
 0  51 ??        0:00.10 /System/Library/CoreServices/SleepServicesD
 0  53 ??        0:00.22 /System/Library/PrivateFrameworks/GenerationalSt
 0  58 ??        0:11.78 /System/Library/Frameworks/CoreServices.framework
 502 62 ??        0:05.55 /System/Library/CoreServices/loginwindow.app/Con
 0  64 ??        0:00.03 /usr/sbin/KernelEventAgent
 0  66 ??        0:29.60 /usr/libexec/hidd
 0  68 ??        0:00.01 /sbin/dynamic_pager -F /private/var/vm/swapfile
 0  76 ??        0:00.03 autofsd
 0  77 ??        0:00.47 /System/Library/PrivateFrameworks/ApplePushServi
 0  78 ??        0:32.14 /Library/Application Support/WDSmartWare/Backup/
 0  79 ??        0:00.05 /Library/Application Support/WDSmartWare/WDDMSer
 0  80 ??        0:00.04 /Applications/Splashtop Streamer.app/Contents/Ma
 0  81 ??        0:00.06 BBDaemon
 88  88 ??        1:36.40 /System/Library/Frameworks/ApplicationServices.f
 0  90 ??        0:00.29 /usr/sbin/ntp -c /private/etc/ntp-restrict.conf
 0  91 ??        0:00.16 /usr/sbin/cupsd -l
 0  92 ??        0:00.03 /sbin/SystemStarter
 0 107 ??        0:00.09 /usr/sbin/aosnotifyd
 0 108 ??        0:00.03 /Library/StartupItems/360ControlDaemon/360Daemon
 0 113 ??        0:00.11 /System/Library/Frameworks/OpenGL.framework/Vers
 0 130 ??        0:00.04 /System/Library/CoreServices/logind
 0 240 ??        0:00.12 /usr/sbin/filecoordinationd
 0 391 ??        0:00.09 /System/Library/Frameworks/CoreMediaIO.framework
 0 451 ??        0:00.04 /System/Library/PrivateFrameworks/SoftwareUpdate
 0 457 ??        0:00.23 /System/Library/PrivateFrameworks/PackageKit.fra
 0 618 ??        0:00.02 /usr/libexec/syspolicyd
 0 1066 ??       0:00.06 /usr/sbin/ocspd
r2d3zs-MacBook-Pro:~ carlos$
```

2. What processes are running on your account?

Some of the processes that I have currently running in my account are creative cloud, finder, chrome, terminal, and acrobat reader.

Commands used: \$ ps -u carlos

```
r2d32s-MacBook-Pro:~ carlos$ ps -u carlos
UID  PID TTY      TIME CMD
502  139 ??      0:04.39 /sbin/launchd
502  143 ??      0:06.40 /usr/libexec/UserEventAgent (Aqua)
502  144 ??      5:40.91 /usr/sbin/distnoted agent
502  146 ??      0:04.19 /usr/sbin/cfprefsd agent
502  156 ??      0:00.38 /usr/sbin/usernoted
502  157 ??      0:08.56 /System/Library/PrivateFrameworks/CommerceKit.framework/
502  158 ??      0:00.12 /System/Library/PrivateFrameworks/TCC.framework/
502  166 ??      0:00.01 /usr/sbin/pboard
502  167 ??      0:02.27 /System/Library/CoreServices/talagent
502  168 ??      0:09.84 /System/Library/CoreServices/Dock.app/Contents/MacOS/Dock
502  169 ??      0:55.14 /System/Library/CoreServices/SystemUIServer.app/
502  170 ??      13:42.17 /System/Library/CoreServices/Finder.app/Contents/MacOS/Finder
502  174 ??      0:00.56 /System/Library/CoreServices/AirPlayUIAgent.app/
502  175 ??      0:03.40 /System/Library/Frameworks/ApplicationServices.framework/
502  176 ??      0:01.93 /Applications/iPhoto.app/Contents/Library/LoginItems/IMCore
502  180 ??      0:02.44 /System/Library/CoreServices/NotificationCenter.app/
502  184 ??      0:00.55 /System/Library/PrivateFrameworks/IMCore.framework/
502  185 ??      0:02.30 /System/Library/PrivateFrameworks/HelpData.framework/
502  187 ??      0:00.02 /System/Library/CoreServices/AppleIDAuthAgent
502  188 ??      0:04.68 /System/Library/PrivateFrameworks/CalendarAgent.framework/
502  192 ??      0:00.85 /Library/Application Support/Tablet/WacomTabletDriver.app/
502  194 ??      0:02.46 /Applications/Splashtop Streamer.app/Contents/MacOS/Splashtop Streamer
502  195 ??      1:37.08 BBLaunchAgent
502  200 ??      2:53.26 /Applications/Utilities/Adobe Creative Cloud/ACC.app/
502  203 ??      0:01.24 /Users/carlos/Library/Application Support/Spotify.app/
502  207 ??      0:00.42 /System/Library/CoreServices/Folder Actions Dispatcher.app/
502  211 ??      0:00.38 /Library/Application Support/WDSmartWare/StatusMonitor.app/
502  214 ??      0:00.17 /System/Library/Frameworks/Accounts.framework/Versions/A/Resources/Accounts
502  216 ??      0:19.24 /Applications/BlueStacks.app/Contents/Runtime/uH
502  228 ??      1:15.23 /Applications/Dropbox.app/Contents/MacOS/Dropbox
502  229 ??      0:00.43 /usr/libexec/xpcd
502  231 ??      0:00.71 /System/Library/CoreServices/NetworkBrowserAgent
502  233 ??      14:22.82 /Applications/Google Chrome.app/Contents/MacOS/Google Chrome
502  235 ??      0:04.02 /Library/PreferencePanes/Air Display Preferences.prefPane
502  242 ??      0:02.33 /Applications/Utilities/Adobe Application Manager.app/
502  246 ??      0:00.35 /Library/Application Support/Tablet/WacomTabletDriver.app/
502  248 ??      0:00.33 /Library/Application Support/Tablet/WacomTabletDriver.app/
502  251 ??      0:00.81 com.apple.dock.extra
502  277 ??      0:00.77 /System/Library/CoreServices/pbs
502  278 ??      0:00.05 /System/Library/PrivateFrameworks/CommerceKit.framework/
502  287 ??      0:23.22 /Applications/Utilities/Adobe Creative Cloud/Corporation.app/
0  298 ??      0:01.39 /Library/DropboxHelperTools/Dropbox_u502/dbfseve
0  299 ??      0:07.67 /Library/DropboxHelperTools/Dropbox_u502/dbfseve
```

3. Run a typical working set of applications Which applications is using the most real memory? The most virtual memory?

My guess is that the applications that are using the most amount of real memory usage are google chrome and the terminal, but after running the command \$ top I found out it was Preview and Chrome. My guesses for virtual memory where chrome and acrobat reader, the command showed that the real answer was Terminal and quicklookd.

Commands: \$ top

JD: Note how you had to do some work here in order to get at the desired information. This is one case where we don't want interactivity—we want to run one command, then get the answer. top will not do that for you.

Processes: 145 total, 5 running, 2 stuck, 138 sleeping, 823 threads														22:46:13
PID	COMMAND	%CPU	TIME	#TH	#WQ	#POR	#MREG	RPRVT	RSHRD	RSIZE	VPRVT	VSIZE	PGRP	
4931	top	4.9	00:00.22	1/1	0	24	30	1560K+	216K	2304K+	17M	2376M	4931	
4789	quicklookd	0.0	00:00.53	4	1	77	104	5204K	6376K	11M	95M	2983M	4789	
4652	bash	0.0	00:00.02	1	0	21	26	464K	216K	1280K	17M	2376M	4652	
4651	login	0.0	00:00.05	2	1	33	70	976K	236K	4712K	44M	2411M	4651	
4520	SRFeature	0.0	00:01.89	13	2	125	138	4512K	6724K	13M	96M	2486M	4520	
4237	mdworker	0.0	00:04.14	4	1	57	95	12M	3208K	22M	95M	2466M	4237	
2978	Sublime Text	0.0	08:47.33	6	1	173	385	54M+	51M-	108M	135M+	2751M	2978	
2923	xpcd	0.0	00:00.04	2	2	35	65	340K	248K	452K	65M	2424M	2923	
2922	com.apple.sp	0.0	00:00.05	2	2	31	59	384K	212K	468K	64M	2422M	2922	
2636	cfprefsd	0.0	00:00.00	2	2	29	50	OB	216K	4096B	68M+	2426M	2636	
2632	launchd	0.0	00:00.01	2	0	48	45	356K	384K	392K	91M	2449M	2632	
2616	printtool	0.0	00:00.11	2	2	59	71	940K	3208K	676K	92M	2460M	2616	
2477	cfprefsd	0.0	00:00.03	2	2	29	58	528K+	216K-	840K	81M+	2447M	2477	
2475	distnoted	0.0	00:10.94	5	4	42	63	740K	2676K	888K	91M	2467M	2475	
2472	launchd	0.0	00:00.03	2	0	49	46	436K	384K	504K	91M	2449M	2472	
2468	iTunesHelper	0.0	00:00.14	3	1	61	87	940K	912K	1056K	82M	2451M	2468	
2441	rcd	0.0	00:00.53	2	1	225	126	2820K-	6152K+	3672K	101M-	2500M	2441	
2334	Splashtop St	0.0	00:40.77	6	1	123	175	8060K	14M	6456K	100M+	2549M	2334	
2297-	Microsoft AU	0.0	00:00.18	2	1	83	91	1100K	6044K	1464K	90M	696M	2297	
2294-	Microsoft Da	0.0	00:07.01	3	1	101	245	2124K	8384K	2284K	91M	738M	2294	
2291-	Microsoft Wo	0.3	00:50.49	8	3	162	562	9864K	17M	6732K	177M+	958M	2291	
2089	SRXDisplaySe	0.0	00:00.16	2	1	80	85	1124K	5992K	1268K	87M	2483M	2089	
1600	cfprefsd	0.0	00:00.01	2	2	29	53	400K+	216K-	712K	55M+	2421M	1600	
1598	launchd	0.0	00:00.02	2	0	48	46	360K	384K	456K	91M	2449M	1598	
1147-	AdobeReader	0.3	01:50.07	17	4	156	414	20M+	22M-	29M	125M+	893M	1147	
1008-	Google Chrom	0.0	00:12.68	11	1	114	483	28M	86M	44M	154M+	951M	233	
865	com.apple.Pr	0.0	00:00.02	2	2	35	63	280K	216K	324K	65M	2431M	865	
861	ubd	0.0	00:01.13	11	1	135	115	4788K	3832K	5452K	87M	2474M	861	
860	librariand	0.0	00:00.78	2	1	51	74	1928K	2740K	2076K	100M	2477M	860	
857	Preview	0.0	18:46.46	2	1	158	417	60M+	24M-	107M	297M+	2824M	857	
714-	Google Chrom	0.0	03:26.36	12	1	131	867	114M	93M	167M	259M+	1086M	233	
618	syspolicyd	0.0	00:00.02	2	2	26	55	OB	216K	4096B	68M	2434M	618	
551	git-credentials	0.0	00:00:00	1	0	17	24	4096B	212K	4096B	17M	2377M	523	
509	Terminal	2.4	00:18.24	7	3	143	295	7860K+	23M-	39M	86M+	2603M	509	
452	com.apple.Sh	0.0	00:00.41	2	1	89	122	1860K	6100K	2008K	90M	2487M	452	
391	VDCAssistant	0.0	00:03.07	4	1	83	99	1156K	2760K	1900K	90M	2472M	391	
382	DashboardCli	0.0	00:04.96	8	1	140	250	13M	10M	12M	357M+	3548M	168	
356	com.apple.au	0.0	00:00.04	2	2	32	62	388K	216K	344K	56M	2422M	356	
355	xpcd	0.0	00:00.03	2	2	37	72	468K	248K	348K	83M	2450M	355	
339	cfprefsd	0.0	00:00:06	2	2	29	59	508K+	216K-	812K	82M+	2448M	339	
338	distnoted	0.0	00:17.94	5	4	42	63	744K	2676K	912K	91M	2467M	338	
334	launchd	0.0	00:00.06	2	0	49	46	472K	384K	524K	91M	2449M	334	
327	lsboxd	0.0	00:00.20	2	2	51	76	816K	5644K	1312K	58M	2469M	327	
319-	Google Chrom	0.0	00:01.69	12	1	112	256	6980K	72M	11M	139M	854M	233	
318-	Google Chrom	0.5	02:41.16	12	1	111	259	9256K+	72M	16M+	140M	853M	233	
317-	Google Chrom	0.0	00:05.34	13	1	113	282	12M	73M	17M	147M	867M	233	
316-	Google Chrom	0.0	01:26.90	12	1	111	351	58M	72M	72M	198M	914M	233	
315-	Google Chrom	0.0	00:06.41	12	1	111	297	15M	72M	23M	146M	861M	233	
313-	Google Chrom	0.0	06:46.28	5	1	90	806	20M-	129M-	167M	127M-	1099M	233	
307	AppleSpell	0.0	00:00.29	3	2	56	86	1672K	2736K	2332K	83M	2475M	307	

4. Login to my.cs.lmu.edu. Who else, other than root and you, has processes running at that time?

Other processes running are apache2, pickup, ping, and rsyslogd.

Commands used: \$ ps -d JD: I don't think -d is the option to use here. For example, I am quite sure that those first few processes are owned by root.

```
cagudo@ab201:~$ ps -d
  PID TTY      TIME CMD
    2 ?        00:00:00 kthreadd
    3 ?        00:06:21 ksoftirqd/0
    6 ?        00:00:00 migration/0
    7 ?        00:00:00 migration/1
    8 ?        00:00:00 kworker/1:0
    9 ?        00:02:06 ksoftirqd/1
   11 ?        00:00:00 migration/2
   12 ?        00:02:28 kworker/2:0
   13 ?        00:03:03 ksoftirqd/2
   14 ?        00:00:00 migration/3
   15 ?        00:00:00 kworker/3:0
   16 ?        00:01:55 ksoftirqd/3
   17 ?        00:00:00 cpuset
   18 ?        00:00:00 khelper
   19 ?        00:00:00 netns
   20 ?        00:00:00 kworker/u:1
   21 ?        00:00:17 sync_supers
   22 ?        00:00:00 bdi-default
   23 ?        00:00:00 kintegrityd
   24 ?        00:00:00 kblockd
   25 ?        00:00:00 ata_sff
   26 ?        00:00:00 khubd
   27 ?        00:00:00 md
   28 ?        00:07:34 kworker/1:1
   29 ?        00:05:17 kworker/2:1
   30 ?        00:05:14 kworker/3:1
   31 ?        00:00:02 khungtaskd
   32 ?        01:01:53 kswapd0
   33 ?        00:00:00 ksmd
   34 ?        00:00:00 khugepaged
   35 ?        00:00:00 fsnotify_mark
   36 ?        00:00:00 ecryptfs-kthrea
   37 ?        00:00:00 crypto
   45 ?        00:00:00 kthrotld
   46 ?        00:00:00 scsi_eh_0
   47 ?        00:00:00 scsi_eh_1
   48 ?        00:00:01 kworker/u:2
  257 ?        00:00:23 jbd2/sda1-8
  258 ?        00:00:00 ext4-dio-unwrit
  315 ?        00:00:00 upstart-udev-br
  466 ?        00:00:00 udevd
  467 ?        00:00:00 udevd
  532 ?        00:00:00 kpsmoused
```