

UNIVERSIDADE FEDERAL DA BAHIA

MATA58 – SISTEMAS OPERACIONAIS

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ATIVIDADE LINUX

1) Crie uma pasta com nome "exercício" no diretório do usuário;

```
mkdir exercicio
```

2) Dentro da pasta exercício: liste os processos do usuário que estão rodando na máquina e exporte para um arquivo proc_usuario.txt.

```
ps -u $USER > ~/exercicio/proc_usuario.txt
```

PID	TTY	TIME	CMD
1539	?	00:00:00	systemd
1540	?	00:00:00	(sd-pam)
1546	?	00:00:00	pipewire
1547	?	00:00:00	pipewire-media-
1548	?	00:00:00	pulseaudio
1563	?	00:00:00	dbus-daemon
1565	?	00:00:00	gvfsd
1578	?	00:00:00	gnome-keyring-d
1584	?	00:00:00	gvfsd-fuse
1585	?	00:00:00	xdg-document-po
1594	?	00:00:00	xdg-permission-
1624	?	00:00:04	tracker-miner-f
1631	tty2	00:00:00	gdm-wayland-ses
1634	tty2	00:00:00	gnome-session-b
1684	?	00:00:00	gnome-session-c
1698	?	00:00:00	gnome-session-b
1712	?	00:00:00	at-spi-bus-laun
1720	?	00:01:58	gnome-shell
1722	?	00:00:00	dbus-daemon
1785	?	00:00:00	gvfs-udisks2-vo
1800	?	00:00:00	gvfs-mtp-volume
1804	?	00:00:00	gvfs-afc-volume
1809	?	00:00:00	gvfs-gphoto2-vo
1813	?	00:00:00	gvfs-goa-volume
1817	?	00:00:00	goa-daemon
1824	?	00:00:00	goa-identity-se

1832 ?	00:00:00	gnome-shell-cal
1838 ?	00:00:00	evolution-sourc
1845 ?	00:00:00	evolution-calen
1854 ?	00:00:00	gvfsd-trash
1856 ?	00:00:00	dconf-service
1868 ?	00:00:00	gjs
1870 ?	00:00:00	at-spi2-registr
1871 ?	00:00:00	evolution-addre
1892 ?	00:00:00	sh
1893 ?	00:00:00	gsd-a11y-settin
1895 ?	00:00:03	ibus-daemon
1897 ?	00:00:00	gsd-color
1899 ?	00:00:00	gsd-datetime
1901 ?	00:00:00	gsd-housekeepin
1904 ?	00:00:00	gsd-keyboard
1907 ?	00:00:00	gsd-media-keys
1908 ?	00:00:00	gsd-power
1915 ?	00:00:00	gsd-print-notif
1918 ?	00:00:00	gsd-rfkill
1919 ?	00:00:00	gsd-screensaver
1920 ?	00:00:00	gsd-sharing
1926 ?	00:00:00	gsd-smartcard
1927 ?	00:00:00	gsd-sound
1930 ?	00:00:00	gsd-wacom
1954 ?	00:00:00	evolution-alarm
1982 ?	00:00:00	gsd-disk-utilit
2018 ?	00:00:00	ibus-memconf
2019 ?	00:00:01	ibus-extension-
2023 ?	00:00:00	ibus-portal
2039 ?	00:00:03	snap-store
2074 ?	00:00:00	gsd-printer
2090 ?	00:00:01	ibus-engine-sim
2181 ?	00:00:00	xdg-desktop-por
2205 ?	00:00:04	xdg-desktop-por
2213 ?	00:00:00	gjs
2239 ?	00:00:00	xdg-desktop-por
2257 ?	00:00:02	gjs
2305 ?	00:00:00	gvfsd-metadata
2322 ?	00:00:00	snapd-desktop-i
2401 ?	00:00:00	snapd-desktop-i
2464 ?	00:00:00	oosplash
2480 ?	00:00:18	soffice.bin
2482 ?	00:00:47	Xwayland
2514 ?	00:00:00	gsd-xsettings
2562 ?	00:00:00	ibus-x11
3980 ?	00:00:00	update-notifier
4259 ?	00:00:00	snap
6487 ?	00:00:00	gvfsd-network
6505 ?	00:00:00	gvfsd-dnssd
7627 ?	00:00:24	firefox
7789 ?	00:00:00	Socket Process
7809 ?	00:00:00	Privileged Cont

```

7917 ?    00:00:00 WebExtensions
8076 ?    00:00:22 Isolated Web Co
8079 ?    00:00:00 Web Content
8083 ?    00:00:00 Web Content
8177 ?    00:00:00 Web Content
8236 ?    00:00:00 gnome-calendar
8240 ?    00:00:00 seahorse
8241 ?    00:00:03 gnome-terminal-
8372 pts/0 00:00:00 bash
8571 pts/0 00:00:00 ps

```

3) Liste e exporte os processos do usuário root para um arquivo proc_root.txt.

```
sudo ps -u root > ~/exercicio/proc_root.txt
```

```

PID TTY      TIME CMD
  1 ?    00:00:01 systemd
  2 ?    00:00:00 kthreadd
  3 ?    00:00:00 rcu_gp
  4 ?    00:00:00 rcu_par_gp
  5 ?    00:00:00 slub_flushwq
  6 ?    00:00:00 netns
  8 ?    00:00:00 kworker/0:0H-events_highpri
 10 ?    00:00:00 mm_percpu_wq
 11 ?    00:00:00 rcu_tasks_kthread
 12 ?    00:00:00 rcu_tasks_rude_kthread
 13 ?    00:00:00 rcu_tasks_trace_kthread
 14 ?    00:00:00 ksoftirqd/0
 15 ?    00:00:01 rcu_preempt
 16 ?    00:00:00 migration/0
 17 ?    00:00:00 idle_inject/0
 19 ?    00:00:00 cpuhp/0
 20 ?    00:00:00 cpuhp/1
 21 ?    00:00:00 idle_inject/1
 22 ?    00:00:00 migration/1
 23 ?    00:00:00 ksoftirqd/1
 25 ?    00:00:00 kworker/1:0H-events_highpri
 26 ?    00:00:00 cpuhp/2
 27 ?    00:00:00 idle_inject/2
 28 ?    00:00:00 migration/2
 29 ?    00:00:00 ksoftirqd/2
 31 ?    00:00:00 kworker/2:0H-events_highpri
 32 ?    00:00:00 cpuhp/3
 33 ?    00:00:00 idle_inject/3
 34 ?    00:00:00 migration/3
 35 ?    00:00:00 ksoftirqd/3
 37 ?    00:00:00 kworker/3:0H-events_highpri
 38 ?    00:00:00 cpuhp/4
 39 ?    00:00:00 idle_inject/4
 40 ?    00:00:00 migration/4
 41 ?    00:00:00 ksoftirqd/4
 43 ?    00:00:00 kworker/4:0H-events_highpri

```

44 ? 00:00:00 cpuhp/5
45 ? 00:00:00 idle_inject/5
46 ? 00:00:00 migration/5
47 ? 00:00:00 ksoftirqd/5
49 ? 00:00:00 kworker/5:0H-events_highpri
50 ? 00:00:00 cpuhp/6
51 ? 00:00:00 idle_inject/6
52 ? 00:00:00 migration/6
53 ? 00:00:00 ksoftirqd/6
55 ? 00:00:00 kworker/6:0H-events_highpri
56 ? 00:00:00 cpuhp/7
57 ? 00:00:00 idle_inject/7
58 ? 00:00:00 migration/7
59 ? 00:00:00 ksoftirqd/7
61 ? 00:00:00 kworker/7:0H-events_highpri
62 ? 00:00:00 cpuhp/8
63 ? 00:00:00 idle_inject/8
64 ? 00:00:00 migration/8
65 ? 00:00:00 ksoftirqd/8
67 ? 00:00:00 kworker/8:0H-events_highpri
68 ? 00:00:00 cpuhp/9
69 ? 00:00:00 idle_inject/9
70 ? 00:00:00 migration/9
71 ? 00:00:05 ksoftirqd/9
73 ? 00:00:00 kworker/9:0H-events_highpri
74 ? 00:00:00 cpuhp/10
75 ? 00:00:00 idle_inject/10
76 ? 00:00:00 migration/10
77 ? 00:00:00 ksoftirqd/10
79 ? 00:00:00 kworker/10:0H-events_highpri
80 ? 00:00:00 cpuhp/11
81 ? 00:00:00 idle_inject/11
82 ? 00:00:00 migration/11
83 ? 00:00:00 ksoftirqd/11
85 ? 00:00:00 kworker/11:0H-events_highpri
86 ? 00:00:00 cpuhp/12
87 ? 00:00:00 idle_inject/12
88 ? 00:00:00 migration/12
89 ? 00:00:00 ksoftirqd/12
91 ? 00:00:00 kworker/12:0H-events_highpri
92 ? 00:00:00 cpuhp/13
93 ? 00:00:00 idle_inject/13
94 ? 00:00:00 migration/13
95 ? 00:00:00 ksoftirqd/13
97 ? 00:00:00 kworker/13:0H-events_highpri
98 ? 00:00:00 cpuhp/14
99 ? 00:00:00 idle_inject/14
100 ? 00:00:00 migration/14
101 ? 00:00:00 ksoftirqd/14
103 ? 00:00:00 kworker/14:0H-events_highpri
104 ? 00:00:00 cpuhp/15
105 ? 00:00:00 idle_inject/15

106 ?	00:00:00 migration/15
107 ?	00:00:00 ksoftirqd/15
109 ?	00:00:00 kworker/15:0H-events_highpri
110 ?	00:00:00 kdevtmpfs
111 ?	00:00:00 inet_frag_wq
112 ?	00:00:00 kauditd
113 ?	00:00:00 khungtaskd
115 ?	00:00:00 oom_reaper
117 ?	00:00:00 writeback
118 ?	00:00:00 kcompactd0
119 ?	00:00:00 ksmd
120 ?	00:00:00 kworker/6:1-mm_percpu_wq
121 ?	00:00:00 khugepaged
122 ?	00:00:00 kintegrityd
123 ?	00:00:00 kblockd
124 ?	00:00:00 blkcg_punt_bio
125 ?	00:00:00 tpm_dev_wq
126 ?	00:00:00 ata_sff
127 ?	00:00:00 md
128 ?	00:00:00 edac-poller
129 ?	00:00:00 devfreq_wq
130 ?	00:00:00 watchdogd
131 ?	00:00:00 kworker/0:1H-kblockd
133 ?	00:00:00 kswapd0
134 ?	00:00:00 ecryptfs-kthread
135 ?	00:00:00 kthrotld
136 ?	00:00:00 irq/122-aerdrv
137 ?	00:00:00 irq/122-pcie-dpc
138 ?	00:00:00 acpi_thermal_pm
139 ?	00:00:00 xenbus_probe
140 ?	00:00:00 hwrng
141 ?	00:00:00 mld
142 ?	00:00:00 kworker/6:1H-kblockd
143 ?	00:00:00 ipv6_addrconf
150 ?	00:00:00 kstrp
165 ?	00:00:00 zswap-shrink
166 ?	00:00:04 kworker/u33:0-i915_flip
170 ?	00:00:00 charger_manager
189 ?	00:00:00 kworker/2:1H-kblockd
193 ?	00:00:00 kworker/15:1H-kblockd
194 ?	00:00:00 kworker/12:1H-kblockd
207 ?	00:00:00 kworker/10:1H-events_highpri
208 ?	00:00:00 kworker/11:1H-kblockd
209 ?	00:00:00 kworker/8:1H-kblockd
210 ?	00:00:00 kworker/9:1H-events_highpri
211 ?	00:00:00 kworker/4:1H-kblockd
212 ?	00:00:00 kworker/5:1H-kblockd
213 ?	00:00:00 kworker/13:1H-events_highpri
214 ?	00:00:00 kworker/7:1H-kblockd
216 ?	00:00:00 kworker/1:1H-kblockd
217 ?	00:00:00 kworker/14:1H-kblockd
231 ?	00:00:00 kworker/3:1H-kblockd

247 ?	00:00:00	scsi_eh_0
248 ?	00:00:00	scsi_tmf_0
249 ?	00:00:00	scsi_eh_1
250 ?	00:00:00	scsi_tmf_1
251 ?	00:00:00	scsi_eh_2
252 ?	00:00:00	scsi_tmf_2
253 ?	00:00:00	scsi_eh_3
254 ?	00:00:00	scsi_tmf_3
289 ?	00:00:00	jbd2/sda7-8
290 ?	00:00:00	ext4-rsv-conver
329 ?	00:00:00	systemd-journal
379 ?	00:00:00	systemd-udev
506 ?	00:00:00	cryptd
508 ?	00:00:00	irq/126-mei_me
528 ?	00:00:06	kworker/9:2-events
562 ?	00:00:00	card0-crtc0
563 ?	00:00:00	card0-crtc1
573 ?	00:00:00	jbd2/sda6-8
574 ?	00:00:00	ext4-rsv-conver
649 ?	00:00:00	accounts-daemon
650 ?	00:00:00	acpid
654 ?	00:00:00	cron
656 ?	00:00:00	NetworkManager
663 ?	00:00:00	irqbalance
665 ?	00:00:00	networkd-dispat
666 ?	00:00:01	polkitd
667 ?	00:00:00	power-profiles-
678 ?	00:00:01	snapd
680 ?	00:00:00	switcheroo-cont
684 ?	00:00:00	systemd-logind
685 ?	00:00:00	thermald
686 ?	00:00:00	udisksd
687 ?	00:00:00	wpa_supplicant
882 ?	00:00:00	cupsd
884 ?	00:00:00	ModemManager
893 ?	00:00:00	unattended-upgr
930 ?	00:00:00	gdm3
1244 ?	00:00:00	upowerd
1263 ?	00:00:12	packagekitd
1415 ?	00:00:00	kworker/u33:1
1499 ?	00:00:00	kworker/10:2-events
1521 ?	00:00:00	gdm-session-wor
1528 ?	00:00:00	cups-browsed
1601 ?	00:00:00	fusermount3
2070 ?	00:00:00	kworker/1:3-mm_percpu_wq
2303 ?	00:00:00	fwupd
3107 ?	00:00:00	kworker/3:2-mm_percpu_wq
5410 ?	00:00:00	kworker/13:0-events
5603 ?	00:00:00	kworker/6:2-inet_frag_wq
5626 ?	00:00:00	kworker/u32:0-i915
5657 ?	00:00:00	kworker/15:0-mm_percpu_wq
6084 ?	00:00:00	kworker/0:0-events

```

6217 ?    00:00:00 kworker/5:2-events
6385 ?    00:00:00 kworker/11:2-events
6564 ?    00:00:00 kworker/14:0-events
6565 ?    00:00:00 kworker/7:1-events
6566 ?    00:00:00 kworker/12:2-events
6631 ?    00:00:00 kworker/9:0-inet_frag_wq
6632 ?    00:00:00 kworker/1:0-events
6677 ?    00:00:00 kworker/2:0-events
6686 ?    00:00:00 kworker/10:0-events
6694 ?    00:00:00 kworker/13:1-events
6711 ?    00:00:00 kworker/7:2-events
6776 ?    00:00:00 kworker/12:0-events
6787 ?    00:00:00 kworker/8:2-events
6906 ?    00:00:00 kworker/14:1-cgroup_destroy
6915 ?    00:00:00 kworker/11:0-events
7203 ?    00:00:00 kworker/5:0-events
7446 ?    00:00:00 kworker/15:1-rcu_gp
7458 ?    00:00:00 kworker/0:2-mm_percpu_wq
7610 ?    00:00:00 kworker/4:0-events
7612 ?    00:00:00 kworker/3:1-events
7615 ?    00:00:00 kworker/8:0-events
7620 ?    00:00:00 kworker/u32:1-i915
7621 ?    00:00:00 kworker/2:1-events
8380 ?    00:00:00 kworker/u32:2-i915
8499 ?    00:00:00 kworker/4:2
8604 ?    00:00:00 kworker/14:2
8605 ?    00:00:00 kworker/9:1-events
8625 ?    00:00:00 kworker/15:2
8674 ?    00:00:00 kworker/u32:3-events_power_efficient
8703 pts/0  00:00:00 sudo
8705 pts/1  00:00:00 sudo
8706 pts/1  00:00:00 ps

```

4) Qual quantidade de processos que estão rodando na máquina?

```
ps aux | wc -l
```

Tenho 325 processos rodando na minha maquina.

5) Inicie um processo com uma prioridade -5, depois atualize a prioridade desse processo para o valor 1.

```
sudo nice -n -5 processo 600
```

```
ps aux | grep "processo 600"
```

```
sudo renice 1 -p PID_do_processo
```

6) Por fim finalize o processo.

```
pkill main
```

7) Abra o terminal e execute o comando ps. Após isso, abra o firefox e no final do comando insira &. O processo irá abrir em background. Abra outro terminal e pare (mas não finalize) o processo do outro terminal. Tente escrever algo no terminal parado. Libere a execução do terminal parado.

ps

firefox &

killall -STOP firefox

killall -CONT firefox