

Observación de SO Linux Procesos

```
alumno@dses4101:~$ ps
  PID TTY          TIME CMD
 4572 pts/1    00:00:00 bash
 5556 pts/1    00:00:00 ps
alumno@dses4101:~$ ps a
  PID TTY          STAT TIME COMMAND
 1245 tty1      Ss+    0:00 /sbin/agetty --noclear 38400 tty1 linux
 1246 tty2      Ss+    0:00 /sbin/agetty 38400 tty2 linux
 1247 tty3      Ss+    0:00 /sbin/agetty 38400 tty3 linux
 1248 tty4      Ss+    0:00 /sbin/agetty 38400 tty4 linux
 1249 tty5      Ss+    0:00 /sbin/agetty 38400 tty5 linux
 1250 tty6      Ss+    0:00 /sbin/agetty 38400 tty6 linux
 1257 tty7      Ssl+   0:42 /usr/libexec/Xorg -nolisten tcp -auth /var/run/sddm/{4fbbec5a-7c9e-4c19-9a0c-91acb6148c6c} -background none -noreset -displ
 3223 pts/2      Ss+    0:00 /bin/bash
 4572 pts/1      Ss     0:00 /bin/bash
 5907 pts/1      R+     0:00 ps a
alumno@dses4101:~$
```

Ejecución de comando “ps a”

```
alumno@dses4101:~$ ps
  PID TTY          TIME CMD
 4572 pts/1    00:00:00 bash
 5556 pts/1    00:00:00 ps
alumno@dses4101:~$ ps a
  PID TTY          STAT TIME COMMAND
 1245 tty1      Ss+    0:00 /sbin/agetty --noclear 38400 tty1 linux
 1246 tty2      Ss+    0:00 /sbin/agetty 38400 tty2 linux
 1247 tty3      Ss+    0:00 /sbin/agetty 38400 tty3 linux
 1248 tty4      Ss+    0:00 /sbin/agetty 38400 tty4 linux
 1249 tty5      Ss+    0:00 /sbin/agetty 38400 tty5 linux
 1250 tty6      Ss+    0:00 /sbin/agetty 38400 tty6 linux
 1257 tty7      Ssl+   0:42 /usr/libexec/Xorg -nolisten tcp -auth /var/run/sddm/{4fbbec5a-7c9e-4c19-9a0c-91acb6148c6c} -background none -noreset -displ
 3223 pts/2      Ss+    0:00 /bin/bash
 4572 pts/1      Ss     0:00 /bin/bash
 5907 pts/1      R+     0:00 ps a
alumno@dses4101:~$ ps u
  USER     PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
  alumno   3223  0.0  0.0   7452  4036 pts/2    Ss+  12:17   0:00 /bin/bash
  alumno   4572  0.0  0.0   7464  4204 pts/1    Ss   12:23   0:00 /bin/bash
  alumno   6112  0.0  0.0   4732  2732 pts/1    R+   12:25   0:00 ps u
alumno@dses4101:~$
```

Ejecución de comando “ps u”

```
alumno@dses4101:~$ ps -aux
  USER     PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
  alumno   3223  0.0  0.0   7452  4036 pts/2    Ss+  12:17   0:00 /bin/bash
  alumno   4572  0.0  0.0   7464  4204 pts/1    Ss   12:23   0:00 /bin/bash
  alumno   6112  0.0  0.0   4732  2732 pts/1    R+   12:25   0:00 ps u
alumno@dses4101:~$ ps -aux
  USER     PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
  root         1  0.0  0.0   2400  1544 ?        Ss   12:04   0:00 init [4]
  root         2  0.0  0.0        0  0 ?        S    12:04   0:00 [kthreadd]
  root         3  0.0  0.0        0  0 ?        Ic-  12:04   0:00 [rcu_gp]
  root         4  0.0  0.0        0  0 ?        Ic-  12:04   0:00 [rcu_par_gp]
  root         5  0.2  0.0        0  0 ?        I    12:04   0:02 [kworker/0:0-events]
  root         6  0.0  0.0        0  0 ?        Ic-  12:04   0:00 [kworker/0:0H-events_highpri]
  root         9  0.0  0.0        0  0 ?        Ic-  12:04   0:00 [mm_percpu_wq]
  root        10  0.0  0.0        0  0 ?        S    12:04   0:00 [rcu_tasks_kthre]
  root        11  0.0  0.0        0  0 ?        S    12:04   0:00 [rcu_tasks_rude_]
  root        12  0.0  0.0        0  0 ?        S    12:04   0:00 [rcu_tasks_trace]
  root        13  0.0  0.0        0  0 ?        S    12:04   0:03 [ksoftirqd/0]
  root        14  0.1  0.0        0  0 ?        I    12:04   0:02 [rcu_preempt]
  root        15  0.0  0.0        0  0 ?        S    12:04   0:00 [migration/0]
  root        16  0.0  0.0        0  0 ?        S    12:04   0:00 [cpuhp/0]
  root        17  0.0  0.0        0  0 ?        S    12:04   0:00 [cpuhp/1]
  root        18  0.0  0.0        0  0 ?        S    12:04   0:00 [migration/1]
  root        19  0.0  0.0        0  0 ?        S    12:04   0:00 [ksoftirqd/1]
  root        21  0.0  0.0        0  0 ?        Ic-  12:04   0:00 [kworker/1:0H-kblockd]
  root        22  0.0  0.0        0  0 ?        S    12:04   0:00 [cpuhp/2]
  root        23  0.0  0.0        0  0 ?        S    12:04   0:00 [migration/2]
  root        24  0.0  0.0        0  0 ?        S    12:04   0:00 [ksoftirqd/2]
  root        26  0.0  0.0        0  0 ?        Ic-  12:04   0:00 [kworker/2:0H-events_highpri]
  root        27  0.0  0.0        0  0 ?        S    12:04   0:00 [cpuhp/3]
  root        28  0.0  0.0        0  0 ?        S    12:04   0:00 [migration/3]
  root        29  0.0  0.0        0  0 ?        S    12:04   0:00 [ksoftirqd/3]
  root        31  0.0  0.0        0  0 ?        Ic-  12:04   0:00 [kworker/3:0H-kblockd]
```

Ejecución de comando “ps -aux”

```
Archivo  Editar  Ver  Marcadores  Complementos  Preferencias  Ayuda

--: bash -- Konsole

--: bash

alumno@ds54101:~$ ps x
  PID TTY          STAT TIME COMMAND
 1351 ?        Sl   0:00 /usr/bin/gnome-keyring-daemon --daemonize --login
 1358 ?        Sl   0:00 /usr/bin/kwalletd5 --pam-login 7 8
 1359 ?        S    0:00 dbus-run-session /usr/bin/startplasma-x11
 1367 ?        S    0:00 dbus-daemon --nofork --print-address 4 --session
 1368 ?        Sl   0:00 /usr/bin/startplasma-x11
 1392 ?        S    0:00 /usr/lib64/libexec/kf5/start_kdeinit
 1393 ?        Ss   0:00 kdeinit5: Running...
 1398 ?        Sl   0:00 /usr/lib64/libexec/kf5/launcher --fd=9
 1413 ?        Sl   0:00 /usr/bin/kded5
 1417 ?        Sl   1:01 /usr/bin/kwin_x11
 1432 ?        Sl   0:00 /usr/bin/kglobalaccel5
 1438 ?        Sl   0:00 /usr/bin/kssmserver
 1443 ?        Sl   0:00 /usr/bin/kaccess
 1445 ?        Sl   0:00 /usr/bin/kompare
 1449 ?        Sll  0:10 /usr/bin/plasmashell
 1458 ?        Sl   0:00 /usr/lib64/libexec/org.kde.powerdevil
 1461 ?        Sl   0:00 /usr/lib64/libexec/polkit-kde-authentication-agent-1
 1483 ?        Sl   0:00 /usr/lib64/libexec/kactivitymanagerd
 1485 ?        Sl   0:00 /usr/lib64/libexec/kdeconnectd
 1504 ?        Sl   0:00 /usr/bin/gnupodbusnproxy
 1512 ?        Sl   0:00 /usr/lib64/libexec/dconf-service
 1520 ?        Sl   0:00 /usr/bin/kmix -session 10f9cf14710e00016588059900000013380006_1706225800_932171
 1544 ?        Sl   0:00 /usr/lib64/libexec/kf5/kscreen_backend_launcher
 1558 ?        Sl   0:00 /usr/bin/pulseaudio --start --log-target=syslog
 1578 ?        Ss   0:00 /usr/bin/python3 /usr/bin/hp-systray -x
 1580 ?        Sl   0:00 /usr/bin/korgac
 1607 ?        Sl   0:00 /usr/libexec/pulse/gsettings-helper
 1644 ?        S    0:00 /usr/libexec/bluetooth/obexd
```

Ejecución de comando “ps x”

```
Archivo  Editar  Ver  Marcadores  Complementos  Preferencias  Ayuda

--: bash -- Konsole

--: bash

alumno@ds54101:~$ ps -e
  PID TTY          TIME CMD
   1 ?        00:00:00 init
   2 ?        00:00:00 kthreadd
   3 ?        00:00:00 rcu_gp
   4 ?        00:00:00 rcu_par_gp
   5 ?        00:00:02 kworker/0:0-events
   6 ?        00:00:00 kworker/0:0H-events_highpri
   9 ?        00:00:00 mm_percpu_wq
  10 ?        00:00:00 rcu_tasks_kthre
  11 ?        00:00:00 rcu_tasks_rude
  12 ?        00:00:00 rcu_tasks_trace
  13 ?        00:00:04 ksoftirqd/0
  14 ?        00:00:02 rcu_preempt
  15 ?        00:00:00 migration/0
  16 ?        00:00:00 cpuhp/0
  17 ?        00:00:00 cpuhp/1
  18 ?        00:00:00 migration/1
  19 ?        00:00:00 ksoftirqd/1
  21 ?        00:00:00 kworker/1:0H-kblockd
  22 ?        00:00:00 cpuhp/2
  23 ?        00:00:00 migration/2
  24 ?        00:00:00 ksoftirqd/2
  26 ?        00:00:00 kworker/2:0H-events_highpri
  27 ?        00:00:00 cpuhp/3
  28 ?        00:00:00 migration/3
  29 ?        00:00:00 ksoftirqd/3
  31 ?        00:00:00 kworker/3:0H-kblockd
  32 ?        00:00:00 kdevtmpfs
  33 ?        00:00:00 netns
  34 ?        00:00:00 insd_frag_wq
```

Ejecución de comando “ps -e”

```
Archivo  Editar  Ver  Marcadores  Complementos  Preferencias  Ayuda

--: bash -- Konsole

--: bash

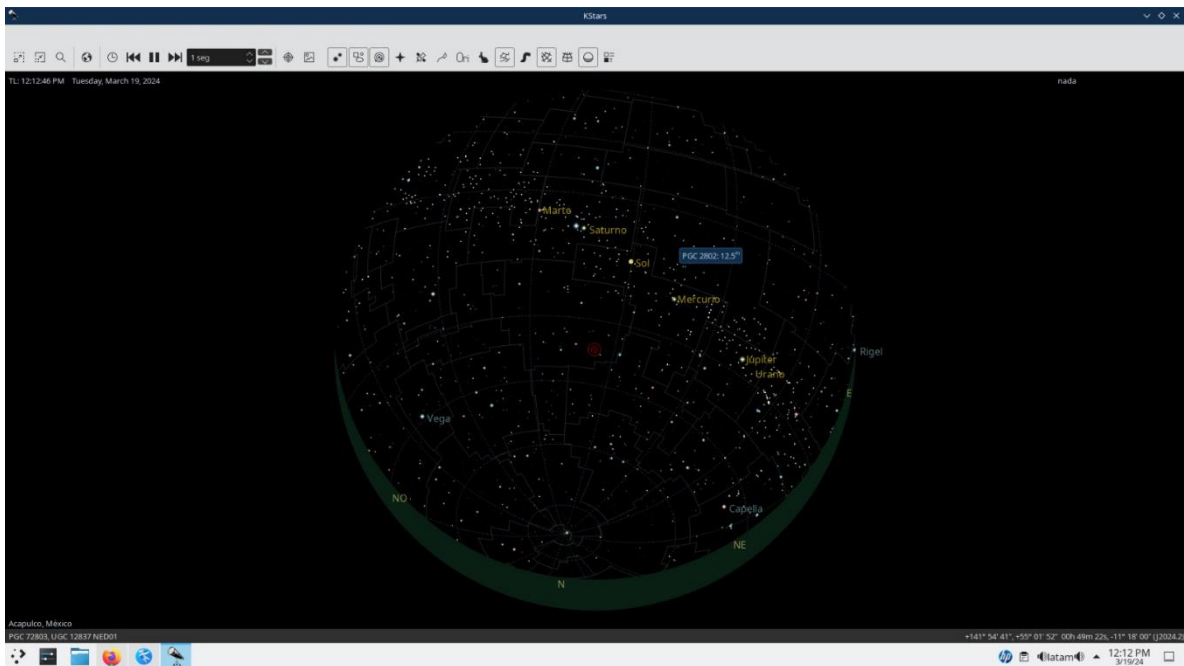
4157 ?        00:00:00 kworker/u8:1-events_unbound
4192 ?        00:00:00 Isolated Web Co
4385 ?        00:04:16 systemdsettings5
4480 ?        00:00:00 systemdsettings5
4412 ?        00:00:00 systemdsettings5
4541 ?        00:00:00 kworker/0:2-events
4542 ?        00:00:00 kworker/3:0-lnet_frag_wq
4552 ?        00:00:00 systemdsettings5
4568 ?        00:00:00 konsole
4572 pts/1    00:00:00 bash
4621 ?        00:00:53 Isolated Web Co
4663 ?        00:00:00 Isolated Servic
4885 ?        00:00:00 kworker/1:0-events
5758 ?        00:00:00 kioslave5
5762 ?        00:00:00 kioslave5
5803 ?        00:00:00 gvfs-udisks2-vo
5809 ?        00:00:00 gvfs-gphoto2-vo
5814 ?        00:00:00 gvfs-afc-volume
5820 ?        00:00:00 gvfs-atp-volume
5824 ?        00:00:00 gvfsd-trash
5838 ?        00:00:00 gvfsd-network
6059 ?        00:00:00 Web Content
6391 ?        00:00:00 Web Content
6395 ?        00:00:00 Web Content
6449 ?        00:00:00 Web Content
6610 pts/1    00:00:00 ps
alumno@ds54101:~$ ps -t
  PID TTY          STAT TIME COMMAND
 4572 pts/1    Ss   0:00 /bin/bash
 6776 pts/1    R+   0:00 ps -t
alumno@ds54101:~$
```

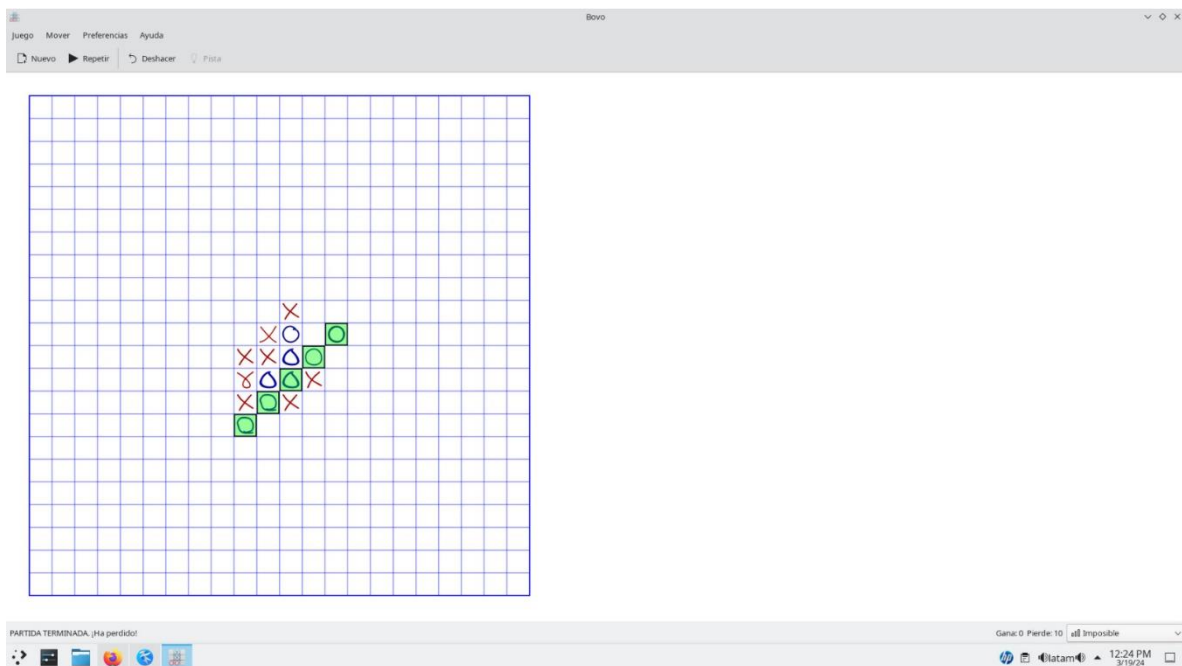
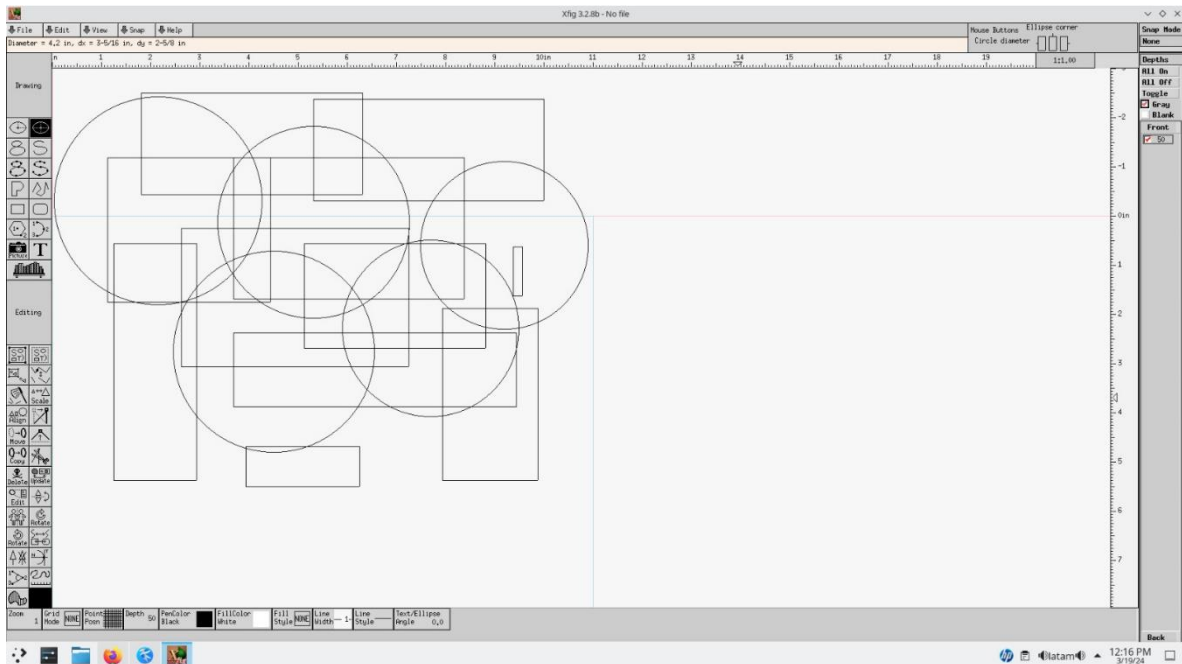
Ejecución de comando “ps-t”

```
top - 12:28:33 up 23 min, 4 users, load average: 2.43, 2.16, 1.45
Tasks: 219 total, 2 running, 217 sleeping, 0 stopped, 0 zombie
rtpcs(s): 26.5 us, 1.0 sy, 0.0 ni, 71.2 id, 1.2 wa, 0.0 hi, 0.1 si, 0.0 st
Mem Mem : 15379.8 total, 10739.4 free, 2362.9 used, 2777.5 buff/cache
Mem Swap: 4087.0 total, 4087.0 free, 0.0 used, 12220.2 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM     TIME+ COMMAND
 4355 alumno    20   0 1610756 30584 136416 R 100.5 14.5 5:22.51 systemsettings
 4621 alumno    20   0 11.1g 617412 136992 S 5.7 3.8 1:06.52 Isolated Web Co
 3771 alumno    20   0 12.1g 485624 231516 S 2.0 3.0 1:09.44 firefox-bin
 4137 alumno    20   0 3811636 514236 119872 S 1.3 3.2 0:38.95 Isolated Web Co
1257 root        20   0 927488 96886 62132 S 0.7 0.6 0:51.37 Xorg
1432 alumno    20   0 274064 46228 39488 S 0.3 0.3 0:00.38 kglobalaccel5
 4541 root        20   0 0 0 0 I 0.3 0.0 0:01.27 kworker/0:2-events
    1 root        20   0 2488 1544 1424 S 0.0 0.0 0:00.20 init
    2 root        20   0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
    3 root        0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
    4 root        0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
    5 root        20   0 0 0 0 I 0.0 0.0 0:02.85 kworker/0:8-inet_frag_wq
    6 root        0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0-events_highpri
    9 root        0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
   10 root        20   0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_kthre
   11 root        20   0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_rude
   12 root        20   0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_trace
   13 root        20   0 0 0 0 S 0.0 0.0 0:04.71 ksoftirqd/0
   14 root        20   0 0 0 0 I 0.0 0.0 0:02.34 rcu_preempt
   15 root        rt  0 0 0 0 S 0.0 0.0 0:00.00 migration/0
   16 root        20   0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
   17 root        20   0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
   18 root        rt  0 0 0 0 S 0.0 0.0 0:00.10 migration/1
   19 root        20   0 0 0 0 S 0.0 0.0 0:00.24 ksoftirqd/1
```

Capturas adicionales de diferentes aplicaciones





Observaciones:

Considero que el SO Linux es bastante similar que un SO Windows, la interfaz de usuario se maneja de manera semejante y está construida casi de la misma forma. Rescataría que Linux ofrece un catálogo extenso de aplicaciones bastantes útiles para el aprendizaje ya sea visual, construcción de vectores gráficos, software matemático de alto nivel, chat a través de servidores, etc. Realmente es un sistema operativo que me parece interesante y definitivamente quisiera utilizarlo en un futuro debido a que es muy bueno para desarrollo de software.