## Міністерство освіти і науки України Національний технічний університет України "Київський політехнічний інститут імені Ігоря Сікорського" Фізико-технічний інститут

## ОПЕРАЦІЙНІ СИСТЕМИ

Комп'ютерний практикум

Робота № 5

Варіант 8

Виконав:

Студент групи ФБ-95

Прохоренко Я.Ю.

## Процеси в ОС UNIX і керування ними

Мета: Оволодіння практичними навичками роботи з процесами — створення і знищення, керування процесами та їх аналіз

Operating System: Ubuntu 20.10

Kernel: Linux 5.8.0-43-generic

Architecture: x86-64

Дата виконання: 18.02.2021

```
        gfitzr@ubuntu:~$ ps -u augfitzr
        TIME CMD

        1638 ?
        00:00:00 systemd

        1639 ?
        00:00:00 (sd-pam)

        1645 ?
        00:00:00 pulseaudio

        1647 ?
        00:00:00 gnome-keyring-d

        1650 ?
        00:00:01 dbus-daemon

        1670 ?
        00:00:00 gvfsd

        1675 ?
        00:00:00 gvfs-fuse

        1678 ?
        00:00:00 gvfs-udisks2-vo

        1687 tty2
        00:00:00 gdm-x-session

        1689 tty2
        00:00:00 gvfs-goa-volume

        1697 ?
        00:00:00 gvfs-goa-volume

        1697 ?
        00:00:00 gvfs-gphoto2-vo

        1704 ?
        00:00:00 gvfs-mtp-volume

        1716 ?
        00:00:00 gvfs-afc-volume

        1721 ?
        00:00:00 gvfs-aphoto2-vo

        1745 tty2
        00:00:00 grome-session-b

        1818 ?
        00:00:00 grome-session-b

        1818 ?
        00:00:00 grome-session-b

        1841 ?
        00:00:00 grome-session-b

        1859 ?
        00:00:00 grome-session-c

        1866 ?
        00:00:00 grome-session-b

        1886 ?
        00:00:00 grome-session-b

        1886 ?
        00:00:00 grome-session-b

        1886 ?<
augfitzr@ubuntu:~$ ps -u augfitzr
                                    2018 ?
                                                                                                                                                                                                            00:00:00 dconf-service
```

| aug | fitzr | @ubuntu:~\$ | ps - | lxa  | te  | e log  |       |       |      |     |                               |
|-----|-------|-------------|------|------|-----|--------|-------|-------|------|-----|-------------------------------|
| F   | UID   | PID         | PPID | PRI  | NI  | VSZ    | RSS   | WCHAN | STAT | TTY | TIME COMMAND                  |
| 4   | 0     | 1           | 0    | 20   | 0   | 104480 | 13188 |       | Ss   | ?   | 0:06 /sbin/init auto noprompt |
| 1   | 0     | 2           | 0    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [kthreadd]               |
| 1   | 0     | 3           | 2    |      | -20 | 0      | 0     |       | I<   | ?   | 0:00 [rcu_gp]                 |
| 1   | 0     | 4           | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [rcu_par_gp]             |
| 1   | 0     | 6           | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [kworker/0:0H-kblockd]   |
| 1   | 0     | 7           | 2    | 20   | 0   | 0      | 0     |       | I    | ?   | 0:00 [kworker/0:1-rcu_par_gp] |
| 1   | 0     | 9           | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [mm_percpu_wq]           |
| 1   | 0     | 10          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [ksoftirqd/0]            |
| 1   | 0     | 11          | 2    | 20   | 0   | 0      | 0     |       | I    | ?   | 0:01 [rcu_sched]              |
| 1   | 0     | 12          | 2    |      | 9 - | 0      | 0     |       | S    | ?   | 0:00 [migration/0]            |
| 5   | 0     | 13          | 2    |      |     | 0      | 0     |       | S    | ?   | 0:00 [idle_inject/0]          |
| 1   | 0     | 14          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [cpuhp/0]                |
| 1   | 0     | 15          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [cpuhp/1]                |
| 5   | 0     | 16          |      | -51  |     | 0      | 0     |       | S    | ?   | 0:00 [idle_inject/1]          |
| 1   | 0     | 17          | 2    | -100 | 9 - | 0      | 0     |       | S    | ?   | 0:00 [migration/1]            |
| 1   | 0     | 18          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [ksoftirqd/1]            |
| 1   | 0     | 20          | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [kworker/1:0H-kblockd]   |
| 5   | 0     | 21          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [kdevtmpfs]              |
| 1   | 0     | 22          | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [netns]                  |
| 1   | 0     | 23          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [rcu_tasks_kthre]        |
| 1   | 0     | 24          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [rcu_tasks_rude_]        |
| 1   | 0     | 25          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [rcu_tasks_trace]        |
| 1   | 0     | 26          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [kauditd]                |
| 1   | 0     | 27          | 2    | 20   | 0   | 0      | 0     |       | I    | ?   | 0:00 [kworker/0:2-events]     |
| 1   | 0     | 28          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [khungtaskd]             |
| 1   | 0     | 29          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [oom_reaper]             |
| 1   | 0     | 30          | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [writeback]              |
| 1   | 0     | 31          | 2    | 20   | 0   | 0      | 0     |       | S    | ?   | 0:00 [kcompactd0]             |
| 1   | 0     | 32          | 2    | 25   | 5   | 0      | 0     |       | SN   | ?   | 0:00 [ksmd]                   |
| 1   | 0     | 33          | 2    | 39   | 19  | 0      | 0     |       | SN   | ?   | 0:00 [khugepaged]             |
| 1   | 0     | 80          | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [kintegrityd]            |
| 1   | 0     | 81          | 2    |      | -20 | 0      | 0     |       | I<   | ?   | 0:00 [kblockd]                |
| 1   | 0     | 82          | 2    |      | -20 | 0      | 0     |       | I<   | ?   | 0:00 [blkcg_punt_bio]         |
| 1   | 0     | 83          | 2    | 0    | -20 | 0      | 0     |       | I<   | ?   | 0:00 [tpm_dev_wq]             |
| 1   | 0     | 84          | 2    |      | -20 | 0      | 0     |       | I<   | ?   | 0:00 [ata_sff]                |
| 1   | 0     | 85          | 2    | 0    | -20 | 0      | 0     | -     | I<   | ?   | 0:00 [md]                     |

| augfitzr@ubuntu:~\$ ps aux |     |      |      |        |       |     |      |       |      |               |  |
|----------------------------|-----|------|------|--------|-------|-----|------|-------|------|---------------|--|
| USER                       | PID | %CPU | %MEM | VSZ    | RSS   | TTY | STAT | START |      | COMMAND       |  |
| root                       | 1   | 0.9  | 0.3  | 104480 | 13188 | ?   | Ss   | 14:26 | 0:06 | /sbin/init au |  |
| root                       | 2   | 0.0  | 0.0  | 0      | 0     | ?   | S    | 14:26 | 0:00 | [kthreadd]    |  |
| root                       | 3   | 0.0  | 0.0  | 0      | 0     | ?   | I<   | 14:26 |      | [rcu_gp]      |  |
| root                       | 4   | 0.0  | 0.0  | 0      | 0     | ?   | I<   | 14:26 | 0:00 | [rcu_par_gp]  |  |
| root                       | 6   | 0.0  | 0.0  | 0      | 0     | ?   | I<   | 14:26 | 0:00 | [kworker/0:0H |  |
| root                       | 7   | 0.0  | 0.0  | 0      | 0     | ?   | I    | 14:26 | 0:00 | [kworker/0:1- |  |
| root                       | 9   | 0.0  | 0.0  | 0      | 0     | ?   | I<   | 14:26 | 0:00 | [mm_percpu_wq |  |
| root                       | 10  | 0.0  | 0.0  | 0      | 0     | ?   | S    | 14:26 | 0:00 | [ksoftirqd/0] |  |
| root                       | 11  | 0.1  | 0.0  | 0      | 0     |     | I    | 14:26 | 0:01 | [rcu_sched]   |  |
| root                       | 12  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 | 0:00 | [migration/0] |  |
| root                       | 13  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [idle_inject/ |  |
| root                       | 14  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [cpuhp/0]     |  |
| root                       | 15  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [cpuhp/1]     |  |
| root                       | 16  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [idle_inject/ |  |
| root                       | 17  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 | 0:00 | [migration/1] |  |
| root                       | 18  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 | 0:00 | [ksoftirqd/1] |  |
| root                       | 20  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 |      | [kworker/1:0H |  |
| root                       | 21  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 | 0:00 | [kdevtmpfs]   |  |
| root                       | 22  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 | 0:00 | [netns]       |  |
| root                       | 23  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 | 0:00 | [rcu_tasks_kt |  |
| root                       | 24  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 | 0:00 | [rcu_tasks_ru |  |
| root                       | 25  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [rcu_tasks_tr |  |
| root                       | 26  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [kauditd]     |  |
| root                       | 27  | 0.0  | 0.0  | 0      | 0     |     | I    | 14:26 |      | [kworker/0:2- |  |
| root                       | 28  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [khungtaskd]  |  |
| root                       | 29  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 | 0:00 | [oom_reaper]  |  |
| root                       | 30  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 |      | [writeback]   |  |
| root                       | 31  | 0.0  | 0.0  | 0      | 0     |     | S    | 14:26 |      | [kcompactd0]  |  |
| root                       | 32  | 0.0  | 0.0  | 0      | 0     |     | SN   | 14:26 |      | [ksmd]        |  |
| root                       | 33  | 0.0  | 0.0  | 0      | 0     |     | SN   | 14:26 |      | [khugepaged]  |  |
| root                       | 80  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 |      | [kintegrityd] |  |
| root                       | 81  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 |      | [kblockd]     |  |
| root                       | 82  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 |      | [blkcg_punt_b |  |
| root                       | 83  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 |      | [tpm_dev_wq]  |  |
| root                       | 84  | 0.0  | 0.0  | 0      | 0     |     | I<   | 14:26 |      | [ata_sff]     |  |
| root                       | 85  | 0.0  | 0.0  | 0      | 0     | ?   | I<   | 14:26 | 0:00 | [md]          |  |

augfitzr@ubuntu:~\$ kill -9 9577

| ~          | rof. | 1+2000 | bustu. c      | oc lu        | 211 | afi+: | -       |                 |                   |     |          |  |
|------------|------|--------|---------------|--------------|-----|-------|---------|-----------------|-------------------|-----|----------|--|
| F          |      | UID    | buntu:~\$ PID | PPID         |     |       | 'NI ADI | DD 57           | HCHAN             | TTY | TIME     | CMD  |
| 4          |      | 1000   | 1638          | 1            | 0   |       | 0 -     |                 | ep_pol            |     | 00:00:00 | 100  |
| 5          |      | 1000   | 1639          | 1638         | 0   | 80    |         | 26489           | The second second | ?   | 00:00:00 | 100 mg 12 mg |
|            | S    | 1000   | 1645          | 1638         | 1   |       |         |                 | do po             |     |          | pulseaudio   |
| 0          |      | 1000   | 1647          | 1638         | 0   |       |         |                 | The second second |     |          | tracker-mi   |
| 1          |      | 1000   |               | 1038         | 0   |       |         | 210744<br>62214 | do_po             | ?   |          | 219  |
| 0          |      |        | 1650          |              | 0   |       |         |                 |                   |     |          | gnome-keyr   |
| 0          |      | 1000   | 1654          | 1638         | 0   |       | 0 -     |                 | ep_pol            |     |          | dbus-daemo   |
|            | S    | 1000   | 1670          | 1638<br>1638 | 0   |       |         |                 | do_pol            |     | 00:00:00 |  |
|            | S    | 1000   | 1675          |              |     |       |         |                 | futex_            |     |          | gvfsd-fuse   |
| MCTO N     | S    | 1000   | 1678          | 1638         | 0   |       |         |                 | do_pol            |     |          | gvfs-udisk   |
| 4          |      | 1000   | 1687          | 1497         | 7   |       |         |                 | do_pol            |     |          | gdm-x-sess   |
| 0          |      | 1000   | 1689          | 1687         |     |       |         |                 | ep_po             |     | 00:01:05 | The state of the s |
| 0          |      | 1000   | 1692          | 1638         | 0   |       |         |                 | do_pol            |     |          | gvfs-goa-v   |
|            |      | 1000   | 1697          | 1638         | 0   |       |         |                 | do_po             |     |          | goa-daemon   |
| 0          | 5    | 1000   | 1704          | 1638         | 0   |       |         |                 | do_pol            |     |          | goa-identi   |
|            |      | 1000   | 1709          | 1638         |     |       |         |                 | do_pol            |     |          | gvfs-mtp-v   |
|            | S    | 1000   | 1716          | 1638         | 0   |       |         |                 | do_pol            |     |          | gvfs-afc-v   |
| H-CO CO    | S    | 1000   | 1721          | 1638         | 0   |       |         |                 | do_pol            |     |          | gvfs-gphot   |
| 0          |      | 1000   | 1745          | 1687         | 0   |       |         |                 | do_pol            |     |          | gnome-sess   |
| 1          |      | 1000   | 1818          | 1745         | 0   |       | 0 -     | 1509            |                   | ?   |          | ssh-agent  |
| 0          |      | 1000   | 1837          | 1638         | 0   |       |         |                 | do_pol            |     |          | gvfsd-meta   |
| 0          |      | 1000   | 1841          | 1638         | 0   |       |         |                 | do_pol            |     |          | at-spi-bus   |
|            | S    | 1000   | 1846          | 1841         | 0   |       | 0 -     |                 | ep_pol            |     |          | dbus-daemo   |
| 100        | S    | 1000   | 1859          | 1638         | 0   |       |         |                 | do_pol            |     |          | gnome-sess   |
|            | S    | 1000   | 1866          | 1638         | 0   |       |         |                 | do_po             |     |          | gnome-sess   |
| No.        | S    | 1000   | 1886          | 1638         |     | 80    |         |                 | 78 do_p           |     |          | gnome-shel   |
| 0          |      | 1000   | 1920          | 1886         | 0   |       |         |                 | do_pol            |     |          | ibus-daemo   |
| 0          |      | 1000   | 1930          | 1920         | 0   |       |         |                 | do_pol            |     |          | ibus-dconf   |
| 0          |      | 1000   | 1931          | 1920         | 0   | 80    |         |                 | do_pol            |     |          | ibus-exten   |
| 0          |      | 1000   | 1935          | 1638         | 0   | 80    |         |                 | do_pol            |     |          | ibus-x11   |
|            | S    | 1000   | 1937          | 1638         | 0   | 80    |         |                 | do_pol            |     |          | ibus-porta   |
| 100        | S    | 1000   | 1956          | 1638         | 0   |       |         |                 | do_pol            |     |          | at-spi2-re   |
| 0          |      | 1000   | 1985          | 1638         | 0   |       |         |                 | do_pol            |     |          | xdg-permis   |
| 0          |      | 1000   | 1990          | 1638         | 0   |       |         |                 | 2 do_po           |     |          | gnome-shel   |
| 0          |      | 1000   | 1999          | 1638         | 0   |       |         |                 | do_po             |     |          | evolution-   |
| The second | S    | 1000   | 2010          | 1638         | 0   |       |         |                 | do_po             |     |          | evolution-   |
| 0          | S    | 1000   | 2018          | 1638         | 0   | 80    | 0 -     | 39048           | do_pol            | .*  | 00:00:00 | dconf-serv   |

```
augfitzr@ubuntu: $ find / -name "*c*" -print > file 2> /dev/null &
[1] 9839
augfitzr@ubuntu:~$ dd if=/dev/urandom of=/dev/null &
[2] 9842
augfitzr@ubuntu:~$ kill -STOP 9842
                              find / -name "*c*" -print > file 2> /dev/null
[1] Exit 1
[2]+ Stopped
                              dd if=/dev/urandom of=/dev/null
augfitzr@ubuntu:~$ jobs
[2]+ Stopped
                              dd if=/dev/urandom of=/dev/null
augfitzr@ubuntu:~$ kill -cont 9842
augfitzr@ubuntu:~$ jobs
                              dd if=/dev/urandom of=/dev/null &
[2]+ Running
augfitzr@ubuntu:~$ fg 2
dd if=/dev/urandom of=/dev/null
^Z
[2]+ Stopped
                             dd if=/dev/urandom of=/dev/null
augfitzr@ubuntu:~$ renice -n 5 9842
9842 (process ID) old priority 0, new priority 5
augfitzr@ubuntu:~$
```

```
top - 14:47:25 up 21 min, 1 user, load average: 0.50, 0.67, 0.74
Tasks: 295 total, 5 running, 289 sleeping, 1 stopped, 0 zombie
%Cpu(s): 10.1 us, 7.6 sy, 0.0 ni, 81.9 id, 0.0 wa, 0.0 hi, 0.4 si, 0.0 st
MiB Mem : 3903.7 total, 164.0 free, 1844.0 used, 1895.7 buff/cache
MiB Swap: 1873.3 total, 1854.7 free, 18.6 used. 1759.6 avail Mem
```

| 1886 augfitzr   20   | PID  | USER     | PR | NI  | VIRT    | RES    | SHR    | S | %CPU | %MEM | TIME+   | COMMAND         |
|--|------|----------|----|-----|---------|--------|--------|---|------|------|---------|-----------------|
| 3274 augfitzr  | 1886 | augfitzr | 20 | 0   | 4091164 | 244396 | 99884  | R | 19.2 | 6.1  | 1:48.84 | gnome-shell     |
| 1645 augfitzr 9 -11 3777840 19764 15980 S 1.7 0.5 0:22.91 pulseaudio 2865 augfitzr 20 0 1562140 279496 110696 S 1.7 7.0 0:40.81 Telegram 8808 augfitzr 20 0 1289660 219720 44500 R 1.7 5.5 0:44.80 shutter 3087 augfitzr 20 0 2714728 220596 151584 S 0.7 5.5 0:19.87 Web Content 9973 augfitzr 20 0 2714728 220596 151584 S 0.7 5.5 0:19.87 Web Content 9973 augfitzr 20 0 91408 6576 5700 S 0.3 0.2 0:00.19 systemd-timesyn 2883 augfitzr 20 0 501904 29060 20480 S 0.3 0.7 0:00.99 xdg-desktop-por 675 systemd+ 20 0 25096 12236 8564 S 0.0 0.3 0:00.37 systemd-resolve 735 avahi 20 0 9460 3456 3104 S 0.0 0.1 0:00.09 avahi-daemon 737 message+ 20 0 10740 6112 3804 S 0.0 0.2 0:0.188 dbus-daemon 768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 251480 15192 13408 S 0.0 0.4 0:00.09 kerneloops 880 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gyrome-keyring-d 1654 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.12 gyrome-keyring-d 1675 augfitzr 20 0 378344 5940 S 940 S 0.0 0.2 0:00.12 gyrome-keyring-d 1675 augfitzr 20 0 378344 5940 S 940 S 0.0 0.2 0:00.12 gyrose-keyring-d 1675 augfitzr 20 0 378344 5940 S 940 S 0.0 0.1 0:00.01 gyrsd-fuse 1675 augfitzr 20 0 378344 5940 S 940 S 0.0 0.2 0:00.12 gyrsd-fuse 1675 augfitzr 20 0 378344 5940 S 940 S 0.0 0.2 0:00.13 gyrsd-fuse 1675 augfitzr 20 0 378344 5940 S 940 S 0.0 0.1 0:00.02 gyrs-goa-volume | 1689 | augfitzr | 20 | 0   | 426580  | 143960 | 56608  | S | 9.6  | 3.6  | 1:19.01 | Xorg            |
| 2865 augfitzr         20         0         1562140         279496         110696         S         1.7         7.0         0:40.81         Telegram           8808 augfitzr         20         0         1289660         219720         44500         R         1.7         5.5         0:44.80         shutter           3087 augfitzr         20         0         21508         4172         3368         R         0.7         5.5         0:19.87         Web Content           9973 augfitzr         20         0         21508         4172         3368         R         0.7         0.1         0:00.30         top           676         systemd+         20         0         91408         6576         5700         S         0.3         0.2         0:00.19         systemd-timesyn           2883         augfitzr         20         0         501904         29060         20480         S         0.3         0.7         0:00.99         xdg-desktop-por         675         systemd+         20         0         25096         12236         8564         S         0.0         0.3         0:00.99         xdg-desktop-por         675         systemd-resolve         735         avahi         20 <td>3274</td> <td>augfitzr</td> <td>20</td> <td>0</td> <td>829804</td> <td>51440</td> <td>38308</td> <td>R</td> <td>3.0</td> <td>1.3</td> <td>0:14.38</td> <td>gnome-terminal-</td>  | 3274 | augfitzr | 20 | 0   | 829804  | 51440  | 38308  | R | 3.0  | 1.3  | 0:14.38 | gnome-terminal- |
| 8808 augfitzr         20         0 1289660 219720         44500 R         1.7         5.5         0:44.80 shutter           3087 augfitzr         20         0 2714728 220596 151584 S         0.7         5.5         0:19.87 Web Content           9973 augfitzr         20         0 21508 4172 3368 R         0.7         0.1 0:00.30 top           676 systemd+ 20         0 91408 6576 5700 S         0.3 0.2 0:00.19 systemd-timesyn           2883 augfitzr         20         0 501904 29060 20480 S         0.3 0.7 0:00.99 xdg-desktop-por           675 systemd+ 20         0 25096 12236 8564 S         0.0 0.3 0:00.37 systemd-resolve           735 avahi         20         0 9460 3456 3104 S         0.0 0.1 0:00.09 avahi-daemon           735 avahi         20         0 10740 6112 3804 S         0.0 0.1 0:00.28 rsyslogd           785 syslog         20         221176 4960 3492 S         0.0 0.1 0:00.28 rsyslogd           785 avahi         20         9276 344 0 S         0.0 0.0 0:00.00 avahi-daemon           869 whoopsie         0 254180 15192 13408 S         0.0 0.0 0:00.00 kerneloops           875 kernoops         20         12136 444 0 S         0.0 0.0 0:00.00 kerneloops           880 kernoops         20         12136 444 0 S         0.0 0.0 0:00.00 kerneloops           1166 rtkit         2   | 1645 | augfitzr | 9  | -11 | 3777840 | 19764  | 15980  | S | 1.7  | 0.5  | 0:22.91 | pulseaudio      |
| 3087 augfitzr 20 0 2714728 220596 151584 S 0.7 5.5 0:19.87 Web Content  9973 augfitzr 20 0 21508 4172 3368 R 0.7 0.1 0:00.30 top  676 systemd+ 20 0 91408 6576 5700 S 0.3 0.2 0:00.19 systemd-timesyn  2883 augfitzr 20 0 501904 29060 20480 S 0.3 0.7 0:00.99 xdg-desktop-por  675 systemd+ 20 0 25096 12236 8564 S 0.0 0.3 0:00.37 systemd-resolve  735 avahi 20 0 9460 3456 3104 S 0.0 0.1 0:00.09 avahi-daemon  737 message+ 20 0 10740 6112 3804 S 0.0 0.2 0:01.88 dbus-daemon  768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd  785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon  869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie  875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops  880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops  1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon  1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.05 systemd  1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd  1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.06 kracker-miner-f  1650 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gyrsd  1675 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.12 gnome-keyring-d  1678 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session  1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gyfs-goa-volume   | 2865 | augfitzr | 20 | 0   | 1562140 | 279496 | 110696 | S | 1.7  | 7.0  | 0:40.81 | Telegram        |
| 9973 augfitzr         20         0         21508         4172         3368 R         0.7         0.1         0:00.30 top           676 systemd+         20         0         91408         6576         5700 S         0.3         0.2         0:00.19 systemd-timesyn           2883 augfitzr         20         0         501904         29060         20480 S         0.3         0.7         0:00.99 xdg-desktop-por           675 systemd+         20         0         9460         3456         3104 S         0.0         0.1         0:00.99 xdg-desktop-por           735 avaht         20         0         9460         3456         3104 S         0.0         0.1         0:00.99 avahi-daemon           737 message+         20         0         10740         6112         3804 S         0.0         0.1         0:00.09 avahi-daemon           768 syslog         20         0         221176         4960         3492 S         0.0         0.1         0:00.28 rsyslogd           785 avahi         20         0         9276         344         0 S         0.0         0.0         0:00.00         avahi-daemon           869 whoopsie         20         0         254180         15192         13408 S  | 8808 | augfitzr | 20 | 0   | 1289660 | 219720 | 44500  | R | 1.7  | 5.5  | 0:44.80 | shutter         |
| 676 systemd+ 20 0 91408 6576 5700 S 0.3 0.2 0:00.19 systemd-timesyn 2883 augfitzr 20 0 501904 29060 20480 S 0.3 0.7 0:00.99 xdg-desktop-por 675 systemd+ 20 0 25096 12236 8564 S 0.0 0.3 0:00.37 systemd-resolve 735 avahi 20 0 9460 3456 3104 S 0.0 0.1 0:00.09 avahi-daemon 737 message+ 20 0 10740 6112 3804 S 0.0 0.2 0:01.88 dbus-daemon 768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.26 gyfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.26 gyfs-goa-volume   | 3087 | augfitzr | 20 | 0   | 2714728 | 220596 | 151584 | S | 0.7  | 5.5  | 0:19.87 | Web Content     |
| 2883 augfitzr 20 0 501904 29060 20480 S 0.3 0.7 0:00.99 xdg-desktop-por 675 systemd+ 20 0 25096 12236 8564 S 0.0 0.3 0:00.37 systemd-resolve 735 avahi 20 0 9460 3456 3104 S 0.0 0.1 0:00.09 avahi-daemon 737 message+ 20 0 10740 6112 3804 S 0.0 0.2 0:01.88 dbus-daemon 768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 10996 6176 3836 S 0.0 0.2 0:00.12 gnome-keyring-d 1674 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1675 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.11 gyfsd 1675 augfitzr 20 0 323649 5940 S 0.0 0.1 0:00.01 gyfsd-fuse 1675 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.10 gyfsd-fuse 1678 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gyfs-goa-volume   | 9973 | augfitzr | 20 | 0   | 21508   | 4172   | 3368   | R | 0.7  | 0.1  | 0:00.30 | top             |
| 675 systemd+ 20 0 25096 12236 8564 S 0.0 0.3 0:00.37 systemd-resolve 735 avahi 20 0 9460 3456 3104 S 0.0 0.1 0:00.09 avahi-daemon 737 message+ 20 0 10740 6112 3804 S 0.0 0.2 0:01.88 dbus-daemon 768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 248858 7312 6852 S 0.0 0.2 0:00.11 gyfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gyfsd-fuse 1678 augfitzr 20 0 378344 5940 5940 S 0.0 0.2 0:00.26 gyfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gyfs-goa-volume  | 676  | systemd+ | 20 | 0   | 91408   | 6576   | 5700   | S | 0.3  | 0.2  | 0:00.19 | systemd-timesyn |
| 735 avahi 20 0 9460 3456 3104 S 0.0 0.1 0:00.09 avahi-daemon 737 message+ 20 0 10740 6112 3804 S 0.0 0.2 0:01.88 dbus-daemon 768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1674 augfitzr 20 0 248888 7312 6852 S 0.0 0.2 0:00.11 gyfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gyfsd-fuse 1678 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gyfs-goa-volume   | 2883 | augfitzr | 20 | 0   | 501904  | 29060  | 20480  | S | 0.3  | 0.7  | 0:00.99 | xdg-desktop-por |
| 737 message+ 20 0 10740 6112 3804 S 0.0 0.2 0:01.88 dbus-daemon 768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:00.12 gnome-keyring-d 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1673 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.00 gyfs-demon 1670 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gyfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 675  | systemd+ | 20 | 0   | 25096   | 12236  | 8564   | S | 0.0  | 0.3  | 0:00.37 | systemd-resolve |
| 768 syslog 20 0 221176 4960 3492 S 0.0 0.1 0:00.28 rsyslogd 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 735  | avaht    | 20 | 0   | 9460    | 3456   | 3104   | S | 0.0  | 0.1  | 0:00.09 | avahi-daemon    |
| 785 avahi 20 0 9276 344 0 S 0.0 0.0 0:00.00 avahi-daemon 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:00.12 gnome-keyring-d 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 737  | message+ | 20 | 0   | 10740   | 6112   | 3804   | S | 0.0  | 0.2  | 0:01.88 | dbus-daemon     |
| 869 whoopsie 20 0 254180 15192 13408 S 0.0 0.4 0:00.05 whoopsie 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 768  | syslog   | 20 | 0   | 221176  | 4960   | 3492   | S | 0.0  | 0.1  | 0:00.28 | rsyslogd        |
| 875 kernoops 20 0 12136 416 0 S 0.0 0.0 0:00.00 kerneloops 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 785  | avahi    | 20 | 0   | 9276    | 344    | 0      | S | 0.0  | 0.0  | 0:00.00 | avahi-daemon    |
| 880 kernoops 20 0 12136 444 0 S 0.0 0.0 0:00.00 kerneloops 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 869  | whoopsie | 20 | 0   | 254180  | 15192  | 13408  | S | 0.0  | 0.4  | 0:00.05 | whoopsie        |
| 1166 rtkit 21 1 153796 2960 2708 S 0.0 0.1 0:00.03 rtkit-daemon 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 875  | kernoops | 20 | 0   | 12136   | 416    | 0      | S | 0.0  | 0.0  | 0:00.00 | kerneloops      |
| 1449 colord 20 0 255820 14212 9552 S 0.0 0.4 0:00.26 colord 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 880  | kernoops | 20 | 0   | 12136   | 444    | 0      | S | 0.0  | 0.0  | 0:00.00 | kerneloops      |
| 1638 augfitzr 20 0 20384 9680 8264 S 0.0 0.2 0:00.85 systemd 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 1166 | rtkit    | 21 | 1   | 153796  | 2960   | 2708   | S | 0.0  | 0.1  | 0:00.03 | rtkit-daemon    |
| 1639 augfitzr 20 0 105956 3304 0 S 0.0 0.1 0:00.00 (sd-pam) 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 1449 | colord   | 20 | 0   | 255820  | 14212  | 9552   | S | 0.0  | 0.4  | 0:00.26 | colord          |
| 1647 augfitzr 39 19 866976 26052 16716 S 0.0 0.7 0:00.68 tracker-miner-f 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 1638 | augfitzr | 20 | 0   | 20384   | 9680   | 8264   | S | 0.0  | 0.2  | 0:00.85 | systemd         |
| 1650 augfitzr 20 0 248856 6864 6468 S 0.0 0.2 0:00.12 gnome-keyring-d 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 1639 | augfitzr | 20 | 0   | 105956  | 3304   | 0      | S | 0.0  | 0.1  | 0:00.00 | (sd-pam)        |
| 1654 augfitzr 20 0 10096 6176 3836 S 0.0 0.2 0:01.75 dbus-daemon 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 1647 | augfitzr | 39 | 19  | 866976  | 26052  | 16716  | S | 0.0  | 0.7  | 0:00.68 | tracker-miner-f |
| 1670 augfitzr 20 0 248388 7312 6852 S 0.0 0.2 0:00.11 gvfsd 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 1650 | augfitzr | 20 | 0   | 248856  | 6864   | 6468   | S | 0.0  | 0.2  | 0:00.12 | gnome-keyring-d |
| 1675 augfitzr 20 0 378344 5940 5940 S 0.0 0.1 0:00.01 gvfsd-fuse<br>1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo<br>1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session<br>1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 1654 | augfitzr | 20 | 0   | 10096   | 6176   | 3836   | S | 0.0  | 0.2  | 0:01.75 | dbus-daemon     |
| 1678 augfitzr 20 0 323696 8936 8076 S 0.0 0.2 0:00.26 gvfs-udisks2-vo<br>1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session<br>1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 1670 | augfitzr | 20 | 0   | 248388  | 7312   | 6852   | S | 0.0  | 0.2  | 0:00.11 | gvfsd           |
| 1687 augfitzr 20 0 173524 6300 6060 S 0.0 0.2 0:00.01 gdm-x-session<br>1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume   | 1675 | augfitzr | 20 | 0   | 378344  | 5940   | 5940   | S | 0.0  | 0.1  | 0:00.01 | gvfsd-fuse      |
| 1692 augfitzr 20 0 244516 5800 5532 S 0.0 0.1 0:00.06 gvfs-goa-volume  | 1678 | augfitzr | 20 | 0   | 323696  | 8936   | 8076   | S | 0.0  | 0.2  | 0:00.26 | gvfs-udisks2-vo |
|  | 1687 | augfitzr | 20 | 0   | 173524  | 6300   | 6060   | S | 0.0  | 0.2  | 0:00.01 | gdm-x-session   |
| 1607 punfitzs 20 0 EFFEE6 22016 20102 C 0 0 0 0 0 0 00 00 doomon   | 1692 | augfitzr | 20 | 0   | 244516  | 5800   | 5532   | S | 0.0  | 0.1  | 0:00.06 | gvfs-goa-volume |
| 1097 augittzi 20 0 555550 55910 50492 5 0.0 0.8 0:00.08 goa-daenon   | 1697 | augfitzr | 20 | 0   | 555556  | 33916  | 30492  | S | 0.0  | 0.8  | 0:00.08 | goa-daemon      |

```
augfitzr@ubuntu:~$ at now +1 min
warning: commands will be executed using /bin/sh
at> cal 2018
at> <EOT>
job 14 at Fri Feb 19 07:07:00 2021
```

```
# Edit this file to introduce tasks to be run by cron.
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
# For more information see the manual pages of crontab(5) and cron(8)
# m h dom mon dow command
0 0 * * 0 rm /home/augfitzr/*.profilebak
0 0 * * 0 rm /home/augfitzr/*.profiletmp
```

**Висновки:** о даній системі дуже зручно реалізована робота з процесами, там керування ними, завдяки чому дуже зручно контролювати запущені процеси. Також  $\epsilon$  можливість запускати певні дії через деякий час.