top command in Linux with Examples

Last Updated: 27-05-2019

top command is used to show the Linux processes. It provides a dynamic real-time view of the running system. Usually, this command shows the summary information of the system and the list of processes or threads which are currently managed by the Linux Kernel.

As soon as you will run this command it will open an interactive command mode where the top half portion will contain the statistics of processes and resource usage. And Lower half contains a list of the currently running processes. Pressing *q* will simply exit the command mode.

```
Tasks: 238 total,    1 running, 184 sleeping,    0 stopped,    0 zombie
%Cpu(s):  7.0 us,   1.3 sy,   0.0 ni, 91.8 id,   0.0 wa,   0.0 hi,   0.0 si,   0.0 st
KiB Mem :  5939268 total,  1367448 free,  1171108 used,  3400712 buff/cache
KiB Swap:  6801404 total,  6288476 free,   512928 used.  4051952 avail Mem

  PID USER       PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
30510 paras      20   0 1238776 201476  78084 S  15.4  3.4   0:26.53 chrome
30591 paras      20   0   41944   3692   3004 R   7.7  0.1   0:00.14 top
 1071 root       20   0  469284 110808  90276 S   2.6  1.9  34:35.39 Xorg
 1324 rabbitmq   20   0 2190040  14520   3164 S   2.6  0.2   7:36.91 beam.smp
 2036 paras      20   0  351068  11348   3800 S   2.6  0.2   0:56.86 ibus-daemon
 2256 paras      20   0 1606948  94192  45184 S   2.6  1.6  36:58.63 compiz
29789 paras      20   0  666292  36848  28652 S   2.6  0.6   0:03.85 gnome-terminal-
    1 root       20   0  185800   4556   2936 S   0.0  0.1   0:03.14 systemd
    2 root       20   0       0      0      0 S   0.0  0.0   0:00.03 kthreadd
    4 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/0:0H
    6 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 mm_percpu_wq
    7 root       20   0       0      0      0 S   0.0  0.0   0:01.55 ksoftirqd/0
    8 root       20   0       0      0      0 I   0.0  0.0   0:52.59 rcu_sched
    9 root       20   0       0      0      0 I   0.0  0.0   0:00.00 rcu_bh
   10 root       rt   0       0      0      0 S   0.0  0.0   0:00.14 migration/0
   11 root       rt   0       0      0      0 S   0.0  0.0   0:00.10 watchdog/0
   12 root       20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/0
   13 root       20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/1
   14 root       rt   0       0      0      0 S   0.0  0.0   0:00.10 watchdog/1
   15 root       rt   0       0      0      0 S   0.0  0.0   0:00.10 migration/1
   16 root       20   0       0      0      0 S   0.0  0.0   0:02.36 ksoftirqd/1
   18 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/1:0H
   19 root       20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/2
   20 root       rt   0       0      0      0 S   0.0  0.0   0:00.13 watchdog/2
   21 root       rt   0       0      0      0 S   0.0  0.0   0:00.14 migration/2
   22 root       20   0       0      0      0 S   0.0  0.0   0:07.13 ksoftirqd/2
   24 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/2:0H
   25 root       20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/3
   26 root       rt   0       0      0      0 S   0.0  0.0   0:00.11 watchdog/3
   27 root       rt   0       0      0      0 S   0.0  0.0   0:00.11 migration/3
   28 root       20   0       0      0      0 S   0.0  0.0   0:03.60 ksoftirqd/3
   30 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/3:0H
   31 root       20   0       0      0      0 S   0.0  0.0   0:00.00 kdevtmpfs
   32 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 netns
   33 root       20   0       0      0      0 S   0.0  0.0   0:00.00 rcu_tasks_kthre
   34 root       20   0       0      0      0 S   0.0  0.0   0:00.00 kauditd
   38 root       20   0       0      0      0 S   0.0  0.0   0:00.03 khungtaskd
   39 root       20   0       0      0      0 S   0.0  0.0   0:00.00 oom_reaper
   40 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 writeback
   41 root       20   0       0      0      0 S   0.0  0.0   0:00.03 kcompactd0
   42 root       25   5       0      0      0 S   0.0  0.0   0:00.00 ksmd
   43 root       39  19       0      0      0 S   0.0  0.0   0:03.57 khugepaged
   44 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 crypto
   45 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 kintegrityd
   46 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 kblockd
   48 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 ata_sff
   49 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 md
   50 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 edac-poller
   51 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 devfreq_wq
   52 root        0 -20       0      0      0 I   0.0  0.1   0:00.00 watchdogd
   55 root       20   0       0      0      0 S   0.0  0.0   0:05.79 kswapd0
   56 root       20   0       0      0      0 S   0.0  0.0   0:00.00 ecryptfs-kthrea
   98 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 kthrotld
   99 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 acpi_thermal_pm
  104 root        0 -20       0      0      0 I   0.0  0.0   0:00.00 ipv6_addrconf
```

Here,

- **PID:** Shows task's unique process id.
- **PR:** Stands for priority of the task.
- **SHR:** Represents the amount of shared memory used by a task.
- **VIRT:** Total virtual memory used by the task.
- **USER:** User name of owner of task.
- **%CPU:** Represents the CPU usage.
- **TIME+:** CPU Time, the same as 'TIME', but reflecting more granularity through hundredths of a second.
- **SHR:** Represents the Shared Memory size (kb) used by a task.
- **NI:** Represents a Nice Value of task. A Negative nice value implies higher priority, and positive Nice value means lower priority.
- **%MEM:** Shows the Memory usage of task.

Examples:

1) Exit Top Command After Specific repetition: Top output keep refreshing until you press 'q'. With below command top command will automatically exit after 20 number of repetition.

```
top -n 10
```

2) Display Specific User Process

```
top -u paras
```

```
top - 20:15:31 up 1 day, 20:57,  1 user,  load average: 1.17, 1.28, 1.41
Tasks: 236 total,   1 running, 183 sleeping,   0 stopped,   0 zombie
%Cpu(s): 37.4 us,  8.3 sy,  0.2 ni, 51.9 id,  1.3 wa,  0.0 hi,  1.0 si,  0.0 st
KiB Mem :  5939268 total,  1511860 free,  1085144 used,  3342264 buff/cache
KiB Swap:  6801404 total,  6288476 free,   512928 used.  4170564 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
30956 paras     20   0   41952   3704   3016 R  16.7  0.1   0:00.05 top
 1856 paras     20   0   45360   2564   2120 S   0.0  0.0   0:00.07 systemd
 1857 paras     20   0   63880    416      0 S   0.0  0.0   0:00.00 (sd-pam)
 1865 paras     20   0  205300   5340   4728 S   0.0  0.1   0:00.99 gnome-keyring-d
 1896 paras     20   0   46444   3440   2492 S   0.0  0.1   0:00.65 upstart
 1988 paras     20   0   32860   1696   1568 S   0.0  0.0   0:00.15 upstart-udev-br
 1999 paras     20   0   43968   3944   2612 S   0.0  0.1   0:17.88 dbus-daemon
 2011 paras     20   0   86344   3852   3592 S   0.0  0.1   0:00.76 window-stack-br
 2036 paras     20   0  351852  12128   3800 S   0.0  0.2   1:03.08 ibus-daemon
 2043 paras     20   0  274532   3068   2656 S   0.0  0.1   0:00.13 gvfsd
 2048 paras     20   0  406864   2536   2536 S   0.0  0.0   0:00.00 gvfsd-fuse
 2057 paras     20   0  264272   3552   3232 S   0.0  0.1   0:00.02 ibus-dconf
 2058 paras     20   0  481712  14316   9072 S   0.0  0.2   0:25.88 ibus-ui-gtk3
 2060 paras     20   0  427648   9228   8048 S   0.0  0.2   0:08.16 ibus-x11
 2080 paras     20   0   32868   1168    968 S   0.0  0.0   0:03.67 upstart-dbus-br
 2081 paras     20   0   32792    124      0 S   0.0  0.0   0:02.09 upstart-dbus-br
 2091 paras     20   0  188388   2676   2584 S   0.0  0.0   0:14.40 ibus-engine-sim
 2114 paras     20   0   41416   1844   1652 S   0.0  0.0   0:00.05 upstart-file-br
 2121 paras     20   0  524848  14400   9612 S   0.0  0.2   0:19.22 bamfdaemon
 2122 paras     20   0  166536   2188   2000 S   0.0  0.0   0:00.25 gpg-agent
 2163 paras     20   0  653400  21212   9760 S   0.0  0.4   0:16.53 hud-service
 2165 paras     20   0 1193320  16020  12172 S   0.0  0.3   0:07.45 unity-settings-
 2172 paras     20   0  338016   3628   3488 S   0.0  0.1   0:00.01 at-spi-bus-laun
 2174 paras     20   0  566872   6332   5488 S   0.0  0.1   0:00.99 gnome-session-b
 2183 paras     20   0   42896   2600   2320 S   0.0  0.0   0:01.55 dbus-daemon
 2186 paras     20   0  648624  28100  12712 S   0.0  0.5   0:31.51 unity-panel-ser
 2193 paras     20   0  206988   4376   4052 S   0.0  0.1   0:04.70 at-spi2-registr
 2219 paras     20   0  178908   3472   2864 S   0.0  0.1   0:00.32 dconf-service
 2220 paras     20   0   22500   2412   2268 S   0.0  0.0   0:01.99 syndaemon
 2234 paras      9 -11  435560   9116   6784 S   0.0  0.2  15:05.34 pulseaudio
 2256 paras     20   0 1607316  94600  45060 S   0.0  1.6  37:32.52 compiz
 2282 paras     20   0  576832   8660   7864 S   0.0  0.1   0:00.86 unity-fallback-
 2283 paras     20   0  403148   5212   4928 S   0.0  0.1   0:03.78 indicator-appli
 2285 paras     20   0 1074636  14244  10800 S   0.0  0.2   0:14.66 nm-applet
 2287 paras     20   0  429284   8292   7644 S   0.0  0.1   0:00.81 polkit-gnome-au
 2294 paras     20   0 1400164  64840  26236 S   0.0  1.1   0:58.16 nautilus
 2298 paras     20   0 1421224  89844  13828 S   0.0  1.5   0:11.77 gnome-software
 2310 paras     20   0  285452   4060   3212 S   0.0  0.1   0:00.32 gvfs-udisks2-vo
 2377 paras     20   0  257528   2668   2496 S   0.0  0.0   0:00.04 gvfs-goa-volume
 2382 paras     20   0  259520   3328   3020 S   0.0  0.1   0:00.04 gvfs-mtp-volume
 2387 paras     20   0  271716   3500   3184 S   0.0  0.1   0:00.04 gvfs-gphoto2-vo
 2392 paras     20   0  403612   3348   3020 S   0.0  0.1   0:00.05 gvfs-afc-volume
 2443 paras     20   0  350572   4904   4212 S   0.0  0.1   0:00.06 gvfsd-trash
 2534 paras     20   0  354400   3232   3232 S   0.0  0.1   0:00.00 indicator-messa
 2535 paras     20   0  407128   1940   1940 S   0.0  0.0   0:00.00 indicator-bluet
 2544 paras     20   0  423440   4352   3380 S   0.0  0.1   0:00.88 indicator-power
 2545 paras     20   0 1691688   5924   4920 S   0.0  0.1   0:00.73 indicator-datet
 2546 paras     20   0  649044   9980   8632 S   0.0  0.2   0:01.12 indicator-keybo
 2547 paras     20   0  736980   5252   4500 S   0.0  0.1   0:00.90 indicator-sound
 2548 paras     20   0  547188   8592   8000 S   0.0  0.1   0:00.62 indicator-print
 2551 paras     20   0  625208   3184   2804 S   0.0  0.1   0:00.40 indicator-sessi
 2602 paras     20   0 1242900   4712   4708 S   0.0  0.1   0:00.07 evolution-sourc
 2633 paras     20   0  862852   4836   4836 S   0.0  0.1   0:00.13 evolution-calen
 2650 paras     20   0   61164   3024   2968 S   0.0  0.1   0:00.03 gconfd-2
 2668 paras     20   0  187420   4608   2960 S   0.0  0.1   0:02.50 gvfsd-metadata
```

3) Highlight Running Process in Top: Press 'z' option in running top command will display running process in color which may help you to identified running process easily

```
top - 20:16:50 up 1 day, 20:58,  1 user,  load average: 0.56, 1.08, 1.32
Tasks: 237 total,   1 running, 183 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.9 us,  0.3 sy,  0.0 ni, 98.3 id,  0.4 wa,  0.0 hi,  0.0 si,  0.0 st
KiB Mem :  5939268 total,  1473872 free,  1088040 used,  3377356 buff/cache
KiB Swap:  6801404 total,  6288476 free,   512928 used.  4137852 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
 2036 paras     20   0  351852  12128   3800 S   0.3  0.2   1:03.86 ibus-daemon
 2091 paras     20   0  188388   2676   2584 S   0.3  0.0   0:14.56 ibus-engine-sim
 2256 paras     20   0 1607332  94596  45056 S   0.3  1.6  37:37.82 compiz
26408 paras     20   0 1184280 241472 115100 S   0.3  4.1  10:49.01 chrome
26486 paras     20   0  631012 181196 129652 S   0.3  3.1   5:32.19 chrome
 1856 paras     20   0   45360   2564   2120 S   0.0  0.0   0:00.07 systemd
 1857 paras     20   0   63880    416      0 S   0.0  0.0   0:00.00 (sd-pam)
 1865 paras     20   0  205300   5340   4728 S   0.0  0.1   0:00.99 gnome-keyring-d
 1896 paras     20   0   46444   3440   2492 S   0.0  0.1   0:00.65 upstart
 1988 paras     20   0   32860   1696   1568 S   0.0  0.0   0:00.15 upstart-udev-br
 1999 paras     20   0   43968   3944   2612 S   0.0  0.1   0:18.01 dbus-daemon
 2011 paras     20   0   86344   3852   3592 S   0.0  0.1   0:00.76 window-stack-br
 2043 paras     20   0  274532   3068   2656 S   0.0  0.1   0:00.13 gvfsd
 2048 paras     20   0  406864   2536   2536 S   0.0  0.0   0:00.00 gvfsd-fuse
 2057 paras     20   0  264272   3552   3232 S   0.0  0.1   0:00.02 ibus-dconf
 2058 paras     20   0  481844  14316   9072 S   0.0  0.2   0:26.23 ibus-ui-gtk3
 2060 paras     20   0  427648   9228   8048 S   0.0  0.2   0:08.16 ibus-x11
 2080 paras     20   0   32868   1168    968 S   0.0  0.0   0:03.70 upstart-dbus-br
 2081 paras     20   0   32792    124      0 S   0.0  0.0   0:02.10 upstart-dbus-br
 2114 paras     20   0   41416   1844   1652 S   0.0  0.0   0:00.05 upstart-file-br
 2121 paras     20   0  524848  14400   9612 S   0.0  0.2   0:19.39 bamfdaemon
 2122 paras     20   0  166536   2188   2000 S   0.0  0.0   0:00.25 gpg-agent
 2163 paras     20   0  653400  21212   9760 S   0.0  0.4   0:16.75 hud-service
 2165 paras     20   0 1193320  16020  12172 S   0.0  0.3   0:07.47 unity-settings-
 2172 paras     20   0  338016   3628   3488 S   0.0  0.1   0:00.01 at-spi-bus-laun
 2174 paras     20   0  566872   6332   5488 S   0.0  0.1   0:00.99 gnome-session-b
 2183 paras     20   0   42896   2600   2320 S   0.0  0.0   0:01.56 dbus-daemon
 2186 paras     20   0  648624  28100  12712 S   0.0  0.5   0:31.75 unity-panel-ser
 2193 paras     20   0  206988   4376   4052 S   0.0  0.1   0:04.73 at-spi2-registr
 2219 paras     20   0  178908   3472   2864 S   0.0  0.1   0:00.32 dconf-service
 2220 paras     20   0   22500   2412   2268 S   0.0  0.0   0:02.01 syndaemon
 2234 paras      9 -11  435560   9116   6784 S   0.0  0.2  15:05.37 pulseaudio
 2282 paras     20   0  576832   8660   7864 S   0.0  0.1   0:00.86 unity-fallback-
 2283 paras     20   0  403148   5212   4928 S   0.0  0.1   0:03.79 indicator-appli
 2285 paras     20   0 1074636  14244  10800 S   0.0  0.2   0:14.73 nm-applet
 2287 paras     20   0  429284   8292   7644 S   0.0  0.1   0:00.83 polkit-gnome-au
 2294 paras     20   0 1400164  64840  26236 S   0.0  1.1   0:59.11 nautilus
 2298 paras     20   0 1421224  89844  13828 S   0.0  1.5   0:11.77 gnome-software
 2310 paras     20   0  285452   4060   3212 S   0.0  0.1   0:00.32 gvfs-udisks2-vo
 2377 paras     20   0  257528   2668   2496 S   0.0  0.0   0:00.04 gvfs-goa-volume
 2382 paras     20   0  259520   3328   3020 S   0.0  0.1   0:00.04 gvfs-mtp-volume
 2387 paras     20   0  271716   3500   3184 S   0.0  0.1   0:00.04 gvfs-gphoto2-vo
 2392 paras     20   0  403612   3348   3020 S   0.0  0.1   0:00.05 gvfs-afc-volume
 2443 paras     20   0  350572   4904   4212 S   0.0  0.1   0:00.08 gvfsd-trash
 2534 paras     20   0  354400   3232   3232 S   0.0  0.1   0:00.00 indicator-messa
 2535 paras     20   0  407128   1940   1940 S   0.0  0.0   0:00.00 indicator-bluet
 2544 paras     20   0  423440   4352   3380 S   0.0  0.1   0:00.88 indicator-power
 2545 paras     20   0 1691688   5924   4920 S   0.0  0.1   0:00.74 indicator-datet
 2546 paras     20   0  649044   9980   8632 S   0.0  0.2   0:01.13 indicator-keybo
 2547 paras     20   0  736980   5252   4500 S   0.0  0.1   0:00.90 indicator-sound
 2548 paras     20   0  547188   8592   8000 S   0.0  0.1   0:00.62 indicator-print
 2551 paras     20   0  625208   3184   2804 S   0.0  0.1   0:00.40 indicator-sessi
 2602 paras     20   0 1242900   4712   4708 S   0.0  0.1   0:00.07 evolution-sourc
 2633 paras     20   0  862852   4836   4836 S   0.0  0.1   0:00.13 evolution-calen
```

4) Shows Absolute Path of Processes: Press 'c' option in running top command, it will display absolute path of running pro

```
top - 20:17:44 up 1 day, 20:59,  1 user,  load average: 0.92, 1.09, 1.31
Tasks: 237 total,   1 running, 183 sleeping,   0 stopped,   0 zombie
%Cpu(s):   0.8/0.2    1[|                                                                            ]
KiB Mem :  5939268 total,  1463788 free,  1093036 used,  3382444 buff/cache
KiB Swap:  6801404 total,  6288476 free,   512928 used.  4129196 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
30956 paras     20   0   41980   3704   3016 R   0.3  0.1   0:01.13 top -u paras
 1856 paras     20   0   45360   2564   2120 S   0.0  0.0   0:00.07 /lib/systemd/systemd --user
 1857 paras     20   0   63880    416      0 S   0.0  0.0   0:00.00 (sd-pam)
 1865 paras     20   0  205300   5340   4728 S   0.0  0.1   0:00.99 /usr/bin/gnome-keyring-daemon --daemonize --login
 1896 paras     20   0   46444   3440   2492 S   0.0  0.1   0:00.65 /sbin/upstart --user
 1988 paras     20   0   32860   1696   1568 S   0.0  0.0   0:00.15 upstart-udev-bridge --daemon --user
 1999 paras     20   0   43968   3944   2612 S   0.0  0.1   0:18.17 dbus-daemon --fork --session --address=unix:abstract=/tmp/dbus-WLnJWhB0Kz
 2011 paras     20   0   86344   3852   3592 S   0.0  0.1   0:00.77 /usr/lib/x86_64-linux-gnu/hud/window-stack-bridge
 2043 paras     20   0  274532   3068   2656 S   0.0  0.1   0:00.14 /usr/lib/gvfs/gvfsd
 2048 paras     20   0  406864   2536   2536 S   0.0  0.0   0:00.00 /usr/lib/gvfs/gvfsd-fuse /run/user/1000/gvfs -f -o big_writes
 2057 paras     20   0  264272   3552   3232 S   0.0  0.1   0:00.02 /usr/lib/ibus/ibus-dconf
 2058 paras     20   0  481844  14316   9072 S   0.0  0.2   0:26.53 /usr/lib/ibus/ibus-ui-gtk3
 2060 paras     20   0  427648   9228   8048 S   0.0  0.2   0:08.17 /usr/lib/ibus/ibus-x11 --kill-daemon
 2080 paras     20   0   32868   1168    968 S   0.0  0.0   0:03.73 upstart-dbus-bridge --daemon --session --user --bus-name session
 2081 paras     20   0   32792    124      0 S   0.0  0.0   0:02.10 upstart-dbus-bridge --daemon --system --user --bus-name system
 2091 paras     20   0  188388   2676   2584 S   0.0  0.0   0:14.66 /usr/lib/ibus/ibus-engine-simple
 2114 paras     20   0   41416   1844   1652 S   0.0  0.0   0:00.05 upstart-file-bridge --daemon --user
 2121 paras     20   0  524848  14400   9612 S   0.0  0.2   0:19.63 /usr/lib/x86_64-linux-gnu/bamf/bamfdaemon
 2122 paras     20   0  166536   2188   2000 S   0.0  0.0   0:00.26 gpg-agent --homedir /home/paras/.gnupg --use-standard-socket --daemon
 2163 paras     20   0  653400  21212   9760 S   0.0  0.4   0:16.93 /usr/lib/x86_64-linux-gnu/hud/hud-service
 2165 paras     20   0 1193320  16020  12172 S   0.0  0.3   0:07.48 /usr/lib/unity-settings-daemon/unity-settings-daemon
 2172 paras     20   0  338016   3628   3488 S   0.0  0.1   0:00.01 /usr/lib/at-spi2-core/at-spi-bus-launcher --launch-immediately
 2174 paras     20   0  566872   6332   5488 S   0.0  0.1   0:00.99 /usr/lib/gnome-session/gnome-session-binary --session=ubuntu
 2183 paras     20   0   42896   2600   2320 S   0.0  0.0   0:01.58 /usr/bin/dbus-daemon --config-file=/etc/at-spi2/accessibility.conf --nofork --print-address 3
 2186 paras     20   0  648624  28100  12712 S   0.0  0.5   0:31.98 /usr/lib/x86_64-linux-gnu/unity/unity-panel-service
 2193 paras     20   0  206988   4376   4052 S   0.0  0.1   0:04.78 /usr/lib/at-spi2-core/at-spi2-registryd --use-gnome-session
 2219 paras     20   0  178908   3472   2864 S   0.0  0.1   0:00.32 /usr/lib/dconf/dconf-service
 2220 paras     20   0   22500   2412   2268 S   0.0  0.0   0:02.02 syndaemon -i 1.0 -t -K -R
 2234 paras      9 -11  435560   9116   6784 S   0.0  0.2  15:05.41 /usr/bin/pulseaudio --start --log-target=syslog
 2256 paras     20   0 1607432  94744  45200 S   0.0  1.6  37:42.78 compiz
 2282 paras     20   0  576832   8660   7864 S   0.0  0.1   0:00.87 /usr/lib/unity-settings-daemon/unity-fallback-mount-helper
 2283 paras     20   0  403148   5212   4928 S   0.0  0.1   0:03.80 /usr/lib/x86_64-linux-gnu/indicator-application/indicator-application-service
 2285 paras     20   0 1074636  14244  10800 S   0.0  0.2   0:14.74 nm-applet
 2287 paras     20   0  429284   8292   7644 S   0.0  0.1   0:00.83 /usr/lib/policykit-1-gnome/polkit-gnome-authentication-agent-1
 2294 paras     20   0 1400164  64840  26236 S   0.0  1.1   1:00.40 nautilus -n
 2298 paras     20   0 1421224  89844  13828 S   0.0  1.5   0:11.78 /usr/bin/gnome-software --gapplication-service
 2310 paras     20   0  285452   4060   3212 S   0.0  0.1   0:00.32 /usr/lib/gvfs/gvfs-udisks2-volume-monitor
 2377 paras     20   0  257528   2668   2496 S   0.0  0.0   0:00.05 /usr/lib/gvfs/gvfs-goa-volume-monitor
 2382 paras     20   0  259520   3328   3020 S   0.0  0.1   0:00.05 /usr/lib/gvfs/gvfs-mtp-volume-monitor
 2387 paras     20   0  271716   3500   3184 S   0.0  0.1   0:00.05 /usr/lib/gvfs/gvfs-gphoto2-volume-monitor
 2392 paras     20   0  403612   3348   3020 S   0.0  0.1   0:00.05 /usr/lib/gvfs/gvfs-afc-volume-monitor
 2443 paras     20   0  350572   4904   4212 S   0.0  0.1   0:00.08 /usr/lib/gvfs/gvfsd-trash --spawner :1.4 /org/gtk/gvfs/exec_spaw/0
 2534 paras     20   0  354400   3232   3232 S   0.0  0.1   0:00.00 /usr/lib/x86_64-linux-gnu/indicator-messages/indicator-messages-service
 2535 paras     20   0  407128   1940   1940 S   0.0  0.0   0:00.00 /usr/lib/x86_64-linux-gnu/indicator-bluetooth/indicator-bluetooth-service
 2544 paras     20   0  423440   4352   3380 S   0.0  0.1   0:00.88 /usr/lib/x86_64-linux-gnu/indicator-power/indicator-power-service
 2545 paras     20   0 1691688   5924   4920 S   0.0  0.1   0:00.74 /usr/lib/x86_64-linux-gnu/indicator-datetime/indicator-datetime-service
 2546 paras     20   0  649044   9980   8632 S   0.0  0.2   0:01.14 /usr/lib/x86_64-linux-gnu/indicator-keyboard/indicator-keyboard-service --use-gtk
 2547 paras     20   0  736980   5252   4500 S   0.0  0.1   0:00.90 /usr/lib/x86_64-linux-gnu/indicator-sound/indicator-sound-service
 2548 paras     20   0  547188   8592   8000 S   0.0  0.1   0:00.63 /usr/lib/x86_64-linux-gnu/indicator-printers/indicator-printers-service
 2551 paras     20   0  625208   3184   2804 S   0.0  0.1   0:00.40 /usr/lib/x86_64-linux-gnu/indicator-session/indicator-session-service
 2602 paras     20   0 1242900   4712   4708 S   0.0  0.1   0:00.07 /usr/lib/evolution/evolution-source-registry
 2633 paras     20   0  862852   4836   4836 S   0.0  0.1   0:00.13 /usr/lib/evolution/evolution-calendar-factory
 2650 paras     20   0   61164   3024   2968 S   0.0  0.1   0:00.03 /usr/lib/x86_64-linux-gnu/gconf/gconfd-2
```

5) Kill running process: You can kill a process after finding PID of process by pressing 'k' option in running top command without exiting from top window as shown below.

6) Sort by CPU Utilisation: Press (Shift+P) to sort processes as per CPU utilization.

7) Shows top command syntax:

```
top -h
```



```
paras@paras:~$ top -h
  procps-ng version 3.3.10
Usage:
  top -hv | -bcHiOSs -d secs -n max -u|U user -p pid(s) -o field -w [cols]
paras@paras:~$
```

8) Batch Mode : Send output from top to file or any other programs.

```
top -b
```

9) Secure Mode : Use top in Secure mode.

```
top -s
```

10) Command Line : The below command starts top with last closed state.

```
Top -c
```

11) Delay time : It tells delay time between screen updates.

```
Top -d seconds.tenths
```

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