

PRAKTIKUM SO MODUL 5

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Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
Hit:2 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu bionic InRelease
Hit:4 http://ppa.launchpad.net/numix/ppa/ubuntu bionic InRelease
Get:5 http://id.archive.ubuntu.com/ubuntu bionic-updates InRelease [88,7 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu bionic-backports InRelease [74,6 kB]
Fetched 163 kB in 4s (41,2 kB/s)
Reading package lists... Done
root@kayonpc27:/home/kayon-pc27# sudo apt-get -y upgrade
E: dpkg was interrupted, you must manually run 'sudo dpkg --configure -a' to correct the problem.
root@kayonpc27:/home/kayon-pc27# clear

root@kayonpc27:/home/kayon-pc27# echo halo dunia
halo dunia
root@kayonpc27:/home/kayon-pc27# date
Kam Okt 10 07:56:36 WIB 2019
root@kayonpc27:/home/kayon-pc27# hostname
kayonpc27
root@kayonpc27:/home/kayon-pc27# arch
x86_64
root@kayonpc27:/home/kayon-pc27# uname -a
Linux kayonpc27 4.18.0-22-generic #23-18.04.1-Ubuntu SMP Thu Jun 6 09:37:25 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayonpc27:/home/kayon-pc27# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[ 0.000000] Linux version 4.18.0-22-generic (buildd@lgw01-amd64-033) (gcc version 7.3.0 (Ubuntu 7.3.0-16ubuntu3)) #23-18.04.1-Ubuntu SMP Thu Jun 6 08:37:25 UTC 2019 (Ubuntu 4.18.0-22.23-18.04.1-generic 4.18.20)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-4.18.0-22-generic root=UUID=0639a9f7-ae51-45b3-ac46-43c68764f408 ro quiet splash vt.handoff=1
[ 0.000000] KERNEL supported cpus:
[ 0.000000] Intel GenuineIntel
[ 0.000000] AMD AuthenticAMD
[ 0.000000] Centaur CentaurHauls
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
[ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
[ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009d7ff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000009d800-0x000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000009a000-0x000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000100000-0x00000000000b03fff] usable
[ 0.000000] BIOS-e820: [mem 0x00000000000b0400-0x00000000000b0ffff] ACPI NVS
[ 0.000000] BIOS-e820: [mem 0x00000000000b0f00-0x00000000000b4bfff] usable
[ 0.000000] BIOS-e820: [mem 0x00000000000b4c00-0x00000000000b7efff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000000b7f00-0x00000000000bdc7ff] usable
[ 0.000000] BIOS-e820: [mem 0x00000000000bd800-0x00000000000bdffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000000bd900-0x00000000000bd9fff] ACPI data
[ 0.000000] .....
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
top - 08:01:25 up 39 min, 1 user, load average: 0,14, 0,11, 0,10
Tasks: 198 total, 1 running, 147 sleeping, 0 stopped, 0 zombie
Cpu(s): 2,3 us, 0,3 sy, 0,0 ni, 97,3 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8106416 total, 5530036 free, 1225332 used, 1351048 buff/cache
KiB Swap: 947080 total, 947080 free, 0 used, 6497016 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR S %CPU  %MEM    TIME+  COMMAND
 873 root        20   0 435672 85736 64596 S   5,0  1,1  1:26.91 Xorg
2758 kayon-p+   20   0 813328 45444 31488 S   5,0  0,6  0:06.91 xfce4-terminal
5111 kayon-p+  20   0 2677364 184952 122816 S  1,3  2,3  0:11.99 Web Content
 890 root        20   0      0      0  0 S   0,3  0,0  0:02.61 nv_queue
1414 kayon-p+  20   0 191124 21980 17724 S   0,3  0,3  0:04.37 xfwm4
1790 kayon-p+  20   0 706720 34932 27616 S   0,3  0,4  0:02.15 panel-9-pulseau
3458 kayon-p+  20   0 2650232 150564 101168 S   0,3  1,9  0:14.30 Web Content
3524 kayon-p+  20   0 2861804 204612 116300 S   0,3  2,5  0:23.02 Web Content
    1 root        20   0 225440  9364  6884 S   0,0  0,1  0:01.43 systemd
    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
    6 root        0 -20   0      0  0 I   0,0  0,0  0:00.00 kworker/0:0H-kb
    8 root        0 -20   0      0  0 I   0,0  0,0  0:00.00 mm_percpu_wq
    9 root        20   0      0      0  0 S   0,0  0,0  0:00.01 ksoftirqd/0
   10 root        20   0      0      0  0 I   0,0  0,0  0:00.46 rcu_sched
   11 root        20   0      0      0  0 I   0,0  0,0  0:00.00 rcu_bh
   12 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 migration/0
   13 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 watchdog/0
   14 root        20   0      0      0  0 S   0,0  0,0  0:00.00 cpuhp/0
   15 root        20   0      0      0  0 S   0,0  0,0  0:00.00 cpuhp/1
   16 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 watchdog/1
   17 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 migration/1
   18 root        20   0      0      0  0 S   0,0  0,0  0:00.01 ksoftirqd/1
   19 root        20   0      0      0  0 I   0,0  0,0  0:00.04 kworker/1:0-mm
   20 root        0 -20   0      0      0  0 I   0,0  0,0  0:00.00 kworker/1:0H-kb
   21 root        20   0      0      0  0 S   0,0  0,0  0:00.00 cpuhp/2
   22 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 watchdog/2
   23 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 migration/2
   24 root        20   0      0      0  0 S   0,0  0,0  0:00.01 ksoftirqd/2
   26 root        0 -20   0      0      0  0 I   0,0  0,0  0:00.00 kworker/2:0H-kb
   27 root        20   0      0      0  0 S   0,0  0,0  0:00.00 cpuhp/3
   28 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 watchdog/3
   29 root        rt    0      0      0  0 S   0,0  0,0  0:00.00 migration/3
   30 root        20   0      0      0  0 S   0,0  0,0  0:00.01 ksoftirqd/3
   32 root        0 -20   0      0      0  0 I   0,0  0,0  0:00.00 kworker/3:0H-kb
   33 root        20   0      0      0  0 S   0,0  0,0  0:00.00 kdevtmpfs
   34 root        0 -20   0      0      0  0 I   0,0  0,0  0:00.00 netns
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

--More--
Most commands optionally preceded by integer argument k. Defaults in brackets.
Star (*) indicates argument becomes new default.
-----
<space>          Display next k lines of text [current screen size]
z               Display next k lines of text [current screen size]*
<return>        Display next k lines of text [1]*
d or ctrl-D     Scroll k lines [current scroll size, initially 11]*
q or Q or <interrupt> Exit from more
s               Skip forward k lines of text [1]
f               Skip forward k screenfuls of text [1]
b or ctrl-B     Skip backwards k screenfuls of text [1]
'              Go to place where previous search started
=              Display current line number
/<regular expression> Search for kth occurrence of regular expression [1]
n              Search for kth occurrence of last r.e [1]
!<cmd> or !:<cmd> Execute <cmd> in a subshell
v              Start up /usr/bin/vi at current line
ctrl-L         Redraw screen
:n             Go to kth next file [1]
:p            Go to kth previous file [1]
:f            Display current file name and line number
.             Repeat previous command
-----
[ 0.000000]  D0000-E7FFF uncachable
--More--
Most commands optionally preceded by integer argument k. Defaults in brackets.
Star (*) indicates argument becomes new default.
-----
<space>          Display next k lines of text [current screen size]
z               Display next k lines of text [current screen size]*
<return>        Display next k lines of text [1]*
d or ctrl-D     Scroll k lines [current scroll size, initially 11]*
q or Q or <interrupt> Exit from more
s               Skip forward k lines of text [1]
f               Skip forward k screenfuls of text [1]
b or ctrl-B     Skip backwards k screenfuls of text [1]
'              Go to place where previous search started
=              Display current line number
/<regular expression> Search for kth occurrence of regular expression [1]
n              Search for kth occurrence of last r.e [1]
!<cmd> or !:<cmd> Execute <cmd> in a subshell
v              Start up /usr/bin/vi at current line
ctrl-L         Redraw screen
:n             Go to kth next file [1]
:p            Go to kth previous file [1]
-----
Menyapkan Programming E...  Untitled 1 - LibreOffice Writer  [Screenshot_2019-10-09-17-...  Pictures - File Manager  Terminal - root@kayonpc27: /...  10 Okt, 08:02
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

Repeat previous command
-----
[ 0.000000]  E0000-FFFF write-protect
[ 0.000000]  MTRR variable ranges enabled:
[ 0.000000]  0 base 0000000000 mask 7E00000000 write-back
root@kayonpc27:/home/kayon-pc27# uptime
07:57:19 up 35 min, 1 user, load average: 0,05, 0,10, 0,12
root@kayonpc27:/home/kayon-pc27# whoami
root
root@kayonpc27:/home/kayon-pc27# who
kayon-pc27 tty7      2019-10-10 07:22 (:0)
root@kayonpc27:/home/kayon-pc27# last
kayon-pc  tty7      :0      Thu Oct 10 07:22   gone - no logout
reboot   system boot  4.18.0-22-generi Thu Oct 10 07:21   still running
kayon-pc  tty7      :0      Wed Oct 9 16:33 - 17:33   (01:00)
reboot   system boot  4.18.0-22-generi Wed Oct 9 23:32 - 17:33   (-5:59)
kayon-pc  tty7      :0      Tue Oct 8 23:14 - 17:29   (-5:45)
reboot   system boot  4.18.0-22-generi Tue Oct 8 23:14 - 17:29   (-5:45)

wtmp begins Tue Oct 8 15:34:41 2019
root@kayonpc27:/home/kayon-pc27# finger

Command 'finger' not found, but can be installed with:
apt install finger

root@kayonpc27:/home/kayon-pc27# finger

Command 'finger' not found, but can be installed with:
apt install finger

root@kayonpc27:/home/kayon-pc27# w
07:59:51 up 38 min, 1 user, load average: 0,12, 0,10, 0,10
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
kayon-pc  tty7      :0            07:22   37:52   1:22   0.02s  /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc27:/home/kayon-pc27# top

top - 08:03:23 up 41 min, 1 user, load average: 0,13, 0,12, 0,10
Tasks: 107 total, 1 running, 107 sleeping, 0 stopped, 0 zombie
%Cpu(s): 2,8 us, 1,3 sy, 0,0 ni, 95,9 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8106416 total, 5642648 free, 1111024 used, 1352744 buff/cache
KiB Swap: 947080 total, 947080 free, 0 used, 6609860 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
 873 root        0  20   443864 87228 66088 S   7,0  1,1  1:34,81 Xorg
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

top - 08:03:32 up 41 min, 1 user, load average: 0.11, 0.11, 0.10
Tasks: 197 total, 1 running, 147 sleeping, 0 stopped, 0 zombie
%Cpu(s): 6.4 us, 0.6 sy, 0.0 ni, 92.4 id, 0.4 wa, 0.0 hi, 0.2 si, 0.0 st
KiB Mem : 8106416 total, 5642532 free, 1110968 used, 1352916 buff/cache
KiB Swap: 947080 total, 947080 free, 0 used, 6609916 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR  S  %CPU  %MEM     TIME+ COMMAND
 873 root        20   0   443864   87228   66888  S   4.0   1.1   1:35.35 Xorg
2788 kayon-p+  20   0   813328   45444   31488  S   2.0   0.6   0:11.60 xfce4-terminal
3524 kayon-p+  20   0   2861804 204520  116380  S   0.7   2.5   0:23.55 Web Content
1414 kayon-p+  20   0   191124   21980   17724  S   0.3   0.3   0:04.96 xfwm4
1506 kayon-p+  20   0   389364   18492   15644  S   0.3   0.2   0:00.33 xfsettingsd
1615 kayon-p+  20   0   220772   6980    6268  S   0.3   0.1   0:00.58 at-spi2-registr
1790 kayon-p+  20   0   706720   34932   27616  S   0.3   0.4   0:02.27 panel-9-pulseau
3458 kayon-p+  20   0   2650232 150488  101168  S   0.3   1.9   0:14.55 Web Content
6101 root        20   0   51776   4144   3400  R   0.3   0.1   0:00.88 top
  1 root        20   0   225440   9364   6804  S   0.0   0.1   0:01.43 systemd
  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
  6 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 kworker/0:0H-kb
  8 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 mm_percpu_wq
  9 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/0
 10 root        20   0   0         0         0  I   0.0   0.0   0:00.48 rcu_sched
 11 root        20   0   0         0         0  I   0.0   0.0   0:00.00 rcu_bh
 12 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/0
 13 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/0
 14 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/0
 15 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/1
 16 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/1
 17 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/1
 18 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/1
 19 root        20   0   0         0         0  I   0.0   0.0   0:00.04 kworker/1:0-mm
 20 root        0 -20   0         0         0  S   0.0   0.0   0:00.00 kworker/1:0H-kb
 21 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/2
 22 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/2
 23 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/2
 24 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/2
 26 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 kworker/2:0H-kb
 27 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/3
 28 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/3
 29 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/3
 30 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/3
 32 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 kworker/3:0H-kb
 33 root        20   0   0         0         0  S   0.0   0.0   0:00.00 kdevtmpfs
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

1418 kayon-p+  20   0   417104   29976   23356  S   0.7   0.4   0:02.51 xfce4-panel
 10 root        20   0   0         0         0  I   0.3   0.0   0:00.49 rcu_sched
890 root        20   0   0         0         0  S   0.3   0.0   0:02.80 nv_queue
1414 kayon-p+  20   0   191124   21980   17724  S   0.3   0.3   0:05.01 xfwm4
3458 kayon-p+  20   0   2650232 150488  101168  S   0.3   1.9   0:14.56 Web Content
3524 kayon-p+  20   0   2861804 204520  116380  S   0.3   2.5   0:23.62 Web Content
4954 kayon-p+  20   0   2620652 148160  106352  S   0.3   1.8   0:04.20 Web Content
5111 kayon-p+  20   0   2677364 186152  122816  S   0.3   2.3   0:12.29 Web Content
6101 root        20   0   51776   4144   3400  R   0.3   0.1   0:01.00 top
  1 root        20   0   225440   9364   6804  S   0.0   0.1   0:01.43 systemd
  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
  6 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 kworker/0:0H-kb
  8 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 mm_percpu_wq
  9 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/0
 11 root        20   0   0         0         0  I   0.0   0.0   0:00.00 rcu_bh
 12 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/0
 13 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/0
 14 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/0
 15 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/1
 16 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/1
 17 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/1
 18 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/1
 19 root        20   0   0         0         0  I   0.0   0.0   0:00.04 kworker/1:0-mm
 20 root        0 -20   0         0         0  S   0.0   0.0   0:00.00 kworker/1:0H-kb
 21 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/2
 22 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/2
 23 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/2
 24 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/2
 26 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 kworker/2:0H-kb
 27 root        20   0   0         0         0  S   0.0   0.0   0:00.00 cpuhp/3
 28 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 watchdog/3
 29 root        rt    0   0         0         0  S   0.0   0.0   0:00.00 migration/3
 30 root        20   0   0         0         0  S   0.0   0.0   0:00.01 ksoftirqd/3
 32 root        0 -20   0         0         0  I   0.0   0.0   0:00.00 kworker/3:0H-kb

root@kayonpc27:/home/kayon-pc27#
root@kayonpc27:/home/kayon-pc27# echo $Shell
root@kayonpc27:/home/kayon-pc27# echo $SHELL
/bin/bash
root@kayonpc27:/home/kayon-pc27# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc27:/home/kayon-pc27# man ls
root@kayonpc27:/home/kayon-pc27#
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
LS(1) User Commands LS(1)
NAME
ls - list directory contents
SYNOPSIS
ls [OPTION]... [FILE]...
DESCRIPTION
List information about the FILES (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.
Mandatory arguments to long options are mandatory for short options too.
-a, --all
do not ignore entries starting with .
-A, --almost-all
do not list implied . and ..
--author
with -l, print the author of each file
-b, --escape
print C-style escapes for nongraphic characters
--block-size=SIZE
scale sizes by SIZE before printing them; e.g., --block-size=M prints sizes in units of 1,048,576 bytes; see SIZE format below
-B, --ignore-backups
do not list implied entries ending with ~
-c with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first
-C list entries by columns
--color[=WHEN]
colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below
-d, --directory
list directories themselves, not their contents
-D, --dired
generate output designed for Emacs' dired mode
Manual page ls(1) line 1/207 20% (press h for help or q to quit)
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
-F, --classify
append indicator (one of */=>@|) to entries
--file-type
likewise, except do not append '*'
--format=WORD
across -x, commas -m, horizontal -x, long -l, single-column -l, verbose -l, vertical -C
--full-time
like -l --time-style=full-iso
-g Like -l, but do not list owner
--group-directories-first
group directories before files;
can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping
-G, --no-group
in a long listing, don't print group names
-h, --human-readable
with -l and/or -s, print human readable sizes (e.g., 1K 234M 2G)
--si likewise, but use powers of 1000 not 1024
-H, --dereference-command-line
follow symbolic links listed on the command line
--dereference-command-line-symlink-to-dir
follow each command line symbolic link
that points to a directory
--hide=PATTERN
do not list implied entries matching shell PATTERN (overridden by -a or -A)
--hyperlink[=WHEN]
hyperlink file names; WHEN can be 'always' (default if omitted), 'auto', or 'never'
--indicator-style=WORD
append indicator with style WORD to entry names: none (default), slash (-p), file-type (--file-type), classify (-F)
Manual page ls(1) line 46/207 43% (press h for help or q to quit)
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

-k, --kibibytes
    default to 1024-byte blocks for disk usage

-l
    use a long listing format

-L, --dereference
    when showing file information for a symbolic link, show information for the file the link references rather than for the link itself

-m
    fill width with a comma separated list of entries

-n, --numeric-uid-gid
    Like -l, but list numeric user and group IDs

-N, --literal
    print entry names without quoting

-o
    like -l, but do not list group information

-p, --indicator-style=slash
    append / indicator to directories

-q, --hide-control-chars
    print ? instead of nongraphic characters

--show-control-chars
    show nongraphic characters as-is (the default, unless program is 'ls' and output is a terminal)

-Q, --quote-name
    enclose entry names in double quotes

--quoting-style=WORD
    use quoting style WORD for entry names: literal, locale, shell, shell-always, shell-escape, shell-escape-always, c, escape

-r, --reverse
    reverse order while sorting

-R, --recursive
    list subdirectories recursively

-s, --size
    print the allocated size of each file, in blocks

-S
    sort by file size, largest first

Manual page ls(1) line 96/207 64% (press h for help or q to quit)
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

-S
    sort by file size, largest first

--sort=WORD
    sort by WORD instead of name: none (-U), size (-S), time (-t), version (-v), extension (-X)

--time=WORD
    with -l, show time as WORD instead of default modification time: atime or access or use (-u); ctime or status (-c); also use specified time as sort key if --sort=time (newest first)

--time-style=STYLE
    with -l, show times using style STYLE: full-iso, long-iso, iso, locale, or +FORMAT; FORMAT is interpreted like in 'date'; if FORMAT is FORMAT1<newline>FORMAT2, then FORMAT1 applies to non-recent files and FORMAT2 to recent files; if STYLE is prefixed with 'posix-', STYLE takes effect only outside the POSIX locale

-t
    sort by modification time, newest first

-T, --tabsize=COLS
    assume tab stops at each COLS instead of 8

-u
    with -lt: sort by, and show, access time; with -l: show access time and sort by name; otherwise: sort by access time, newest first

-U
    do not sort; list entries in directory order

-v
    natural sort of (version) numbers within text

-w, --width=COLS
    set output width to COLS. 0 means no limit

-x
    list entries by lines instead of by columns

-X
    sort alphabetically by entry extension

-Z, --context
    print any security context of each file

-l
    list one file per line. Avoid '\n' with -q or -b

--help
    display this help and exit

--version
    output version information and exit

The SIZE argument is an integer and optional unit (example: 10K is 10*1024). Units are K,M,G,T,P,E,Z,Y (powers of 1024) or KB,MB,... (powers of 1000).

Using color to distinguish file types is disabled both by default and with --color=never. With --color=auto, ls emits color codes only when standard output is connected to a termi-

Manual page ls(1) line 139/207 87% (press h for help or q to quit)
```



```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
WHO(1) User Commands WHO(1)
NAME
  who - show who is logged on
SYNOPSIS
  who [OPTION]... [ FILE | ARG1 ARG2 ]
DESCRIPTION
  Print information about users who are currently logged in.
  -a, --all
    same as -b -d --login -p -r -t -T -u
  -b, --boot
    time of last system boot
  -d, --dead
    print dead processes
  -H, --heading
    print line of column headings
  --ips
    print ips instead of hostnames. with --lookup, canonicalizes based on stored IP, if available, rather than stored hostname
  -l, --login
    print system login processes
  --lookup
    attempt to canonicalize hostnames via DNS
  -m
    only hostname and user associated with stdin
  -p, --process
    print active processes spawned by init
  -q, --count
    all login names and number of users logged on
  -r, --runlevel
    print current runlevel
  -s, --short
    print only name, line, and time (default)
Manual page who(1) line 1/83 49% (press h for help or q to quit)
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
-r, --runlevel
  print current runlevel
-s, --short
  print only name, line, and time (default)
-t, --time
  print last system clock change
-T, -w, --msg
  add user's message status as +, - or ?
-u, --users
  list users logged in
--message
  same as -T
--writable
  same as -T
--help
  display this help and exit
--version
  output version information and exit
If FILE is not specified, use /var/run/wtmp. /var/log/wtmp as FILE is common. If ARG1 ARG2 given, -m presumed: 'am i' or 'mom likes' are usual.
AUTHOR
  Written by Joseph Arceneaux, David MacKenzie, and Michael Stone.
REPORTING BUGS
  GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
  Report who translation bugs to <http://translationproject.org/team/>
COPYRIGHT
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  This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.
SEE ALSO
  Full documentation at: <http://www.gnu.org/software/coreutils/who>
  or available locally via: info '(coreutils) who invocation'
GNU coreutils 8.28 January 2018 WHO(1)
Manual page who(1) line 40/83 (END) (press h for help or q to quit)
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

6 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/0:0H-kb
8 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 mm_percpu_wq
9 root 20 0 0 0 0 S 0,0 0,0 0:00.01 ksoftirqd/0
11 root 20 0 0 0 0 I 0,0 0,0 0:00.00 rcu_bh
12 root rt 0 0 0 0 S 0,0 0,0 0:00.00 migration/0
13 root rt 0 0 0 0 S 0,0 0,0 0:00.00 watchdog/0
14 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cpuhp/0
15 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cpuhp/1
16 root rt 0 0 0 0 S 0,0 0,0 0:00.00 watchdog/1
17 root rt 0 0 0 0 S 0,0 0,0 0:00.00 migration/1
18 root 20 0 0 0 0 S 0,0 0,0 0:00.01 ksoftirqd/1
19 root 20 0 0 0 0 I 0,0 0,0 0:00.04 kworker/1:0-mm
20 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cpuhp/2
22 root rt 0 0 0 0 S 0,0 0,0 0:00.00 watchdog/2
23 root rt 0 0 0 0 S 0,0 0,0 0:00.00 migration/2
24 root 20 0 0 0 0 S 0,0 0,0 0:00.01 ksoftirqd/2
26 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cpuhp/3
28 root rt 0 0 0 0 S 0,0 0,0 0:00.00 watchdog/3
29 root rt 0 0 0 0 S 0,0 0,0 0:00.00 migration/3
30 root 20 0 0 0 0 S 0,0 0,0 0:00.01 ksoftirqd/3
32 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/3:0H-kb

root@kayonpc27:/home/kayon-pc27# echo $SHELL
root@kayonpc27:/home/kayon-pc27# echo $SHELL
/bin/bash
root@kayonpc27:/home/kayon-pc27# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc27:/home/kayon-pc27# man ls
root@kayonpc27:/home/kayon-pc27# man who
root@kayonpc27:/home/kayon-pc27# who can tell me about,linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc27:/home/kayon-pc27# last
kayon-pc tty7 :0 Thu Oct 10 07:22 gone - no logout
reboot system boot 4.18.0-22-generi Thu Oct 10 07:21 still running
kayon-pc tty7 :0 Wed Oct 9 16:33 - 17:33 (01:00)
reboot system boot 4.18.0-22-generi Wed Oct 9 23:32 - 17:33 (-5:59)
kayon-pc tty7 :0 Tue Oct 8 23:14 - 17:29 (-5:45)
reboot system boot 4.18.0-22-generi Tue Oct 8 23:14 - 17:29 (-5:45)

wtmp begins Tue Oct 8 15:34:41 2019
root@kayonpc27:/home/kayon-pc27# clear
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

wtmp begins Tue Oct 8 15:34:41 2019
root@kayonpc27:/home/kayon-pc27# clear

root@kayonpc27:/home/kayon-pc27# fdisk -l
Disk /dev/sda: 465,8 GiB, 500107862016 bytes, 976773168 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: dos
Disk identifier: 0x80e875a7

Device Boot Start End Sectors Size Id Type
/dev/sda1 * 2048 206847 204800 100M 7 HPFS/NTFS/exFAT
/dev/sda2 206848 417794047 417587200 199,1G 7 HPFS/NTFS/exFAT
/dev/sda3 419432448 935811071 516378624 246,2G 7 HPFS/NTFS/exFAT
/dev/sda4 935811072 976771071 40960000 19,5G 83 Linux

root@kayonpc27:/home/kayon-pc27# users
kayon-pc27
root@kayonpc27:/home/kayon-pc27# cat /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda4 during installation
UUID=0639a9f7-ae51-45b3-ac46-43c68764f408 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayonpc27:/home/kayon-pc27# cal 2000
2000
Januari Februari Maret
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 1 2 3 4 5 1 2 3 4
2 3 4 5 6 7 8 6 7 8 9 10 11 12 5 6 7 8 9 10 11
9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29 26 27 28 29 30 31
30 31

April Mei Juni
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 1 2 3 4 5 6 1 2 3
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda4 during installation
UUID=0639a9f7-ae51-45b3-ac46-43c68764f408 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayonpc27:/home/kayon-pc27# cal 2000
      2000
   Januari      Februari      Maret
Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa
  1             1 2 3 4 5             1 2 3 4
 2 3 4 5 6 7 8   6 7 8 9 10 11 12   5 6 7 8 9 10 11
 9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29      26 27 28 29 30 31
30 31

   April      Mei      Juni
Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa
  1             1 2 3 4 5 6             1 2 3
 2 3 4 5 6 7 8   7 8 9 10 11 12 13   4 5 6 7 8 9 10
 9 10 11 12 13 14 15 14 15 16 17 18 19 20 11 12 13 14 15 16 17
16 17 18 19 20 21 22 21 22 23 24 25 26 27 18 19 20 21 22 23 24
23 24 25 26 27 28 29 28 29 30 31      25 26 27 28 29 30
30

   Juli      Agustus      September
Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa
  1             1 2 3 4 5             1 2
 2 3 4 5 6 7 8   6 7 8 9 10 11 12   3 4 5 6 7 8 9
 9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23
23 24 25 26 27 28 29 27 28 29 30 31   24 25 26 27 28 29 30
30 31

   Oktober      November      Desember
Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa
  1 2 3 4 5 6 7             1 2 3 4             1 2
 8 9 10 11 12 13 14   5 6 7 8 9 10 11   3 4 5 6 7 8 9
15 16 17 18 19 20 21 12 13 14 15 16 17 18 10 11 12 13 14 15 16
22 23 24 25 26 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
29 30 31      26 27 28 29 30      24 25 26 27 28 29 30
31

root@kayonpc27:/home/kayon-pc27#
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

23 24 25 26 27 28 29 28 29 30 31      25 26 27 28 29 30
30

   Juli      Agustus      September
Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa
  1             1 2 3 4 5             1 2
 2 3 4 5 6 7 8   6 7 8 9 10 11 12   3 4 5 6 7 8 9
 9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23
23 24 25 26 27 28 29 27 28 29 30 31   24 25 26 27 28 29 30
30 31

   Oktober      November      Desember
Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa
  1 2 3 4 5 6 7             1 2 3 4             1 2
 8 9 10 11 12 13 14   5 6 7 8 9 10 11   3 4 5 6 7 8 9
15 16 17 18 19 20 21 12 13 14 15 16 17 18 10 11 12 13 14 15 16
22 23 24 25 26 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
29 30 31      26 27 28 29 30      24 25 26 27 28 29 30
31

root@kayonpc27:/home/kayon-pc27# cal 9 1752
      September 1752
Mi Se Se Ra Ka Ju Sa
  1 2 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

root@kayonpc27:/home/kayon-pc27# cal 9 2007
      September 2007
Mi Se Se Ra Ka Ju Sa
  1
 2 3 4 5 6 7 8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30

root@kayonpc27:/home/kayon-pc27# bc -l
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type 'warranty'.
quit
root@kayonpc27:/home/kayon-pc27#
```



```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
4 apt update
3 apt-get upgrade
4 clear
5 apt autoremove
6 apt upgrade
7 apt autoremove
8 apt autoclean
9 nano /etc/bash.bashrc
10 clear
11 apt install ssh
12 clear
13 apt install ssh
14 service ssh restart
15 apt install ubiquity-slideshow-xubuntu
16 apt install -f
17 clear
18 nano /etc/lsb-release
19 clear
20 clear
21 clear
22 lsb_release -a
23 clear
24 apt purge pinguybuilder
25 clear
26 apt autoremove
27 clear
28 apt autoclean
29 clear
30 kdtb
31 cd ..
32 ls
33 rm -rf PinguyBuilder/*
34 ls
35 rm -rf PinguyBuilder
36 ls
37 cd master/
38 ls
39 rm -rf pinguybuilder_5.1-8_all.deb
40 clear
41 ls
42 clear
43 apt updat
44 apt update
45 cea
46 clear
47 ez
--
895 cat /etc/fstab
896 cal 2000
897 cal 9 1752
898 cal 9 2007
899 bc -l
900 echo 5+4 | bc -l
901 yes please
902 bc -l
903 pwd
904 history
root@kayonpc27:/home/kayon-pc27# tail -f
quit
tail -f /var/log/message
quit
^C
root@kayonpc27:/home/kayon-pc27# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc27:/home/kayon-pc27# lsmod
Module              Size  Used by
joydev              24576  0
input_leds          16384  0
snd_hda_codec_hdmi  49152  1
nvidia_uvm          815104  0
eeepc_wmi            16384  0
asus_wmi             28672  1 eeepc_wmi
sparse_keymap        16384  1 asus_wmi
wmi_bmf             16384  0
gpio_ich             16384  0
intel_rapl           20480  0
x86_pkg_temp_thermal 16384  0
intel_powerclamp     16384  0
coretemp            16384  0
kvm_intel            208896  0
kvm                  626688  1 kvm_intel
irqbypass            16384  1 kvm
crc16dif_pclmul      16384  0
crc32_pclmul         16384  0
ghash_clmulni_intel  16384  0
pcbc                 16384  0
snd_seq_midi         16384  0
snd_seq_midi_event   16384  1 snd_seq_midi
snd_rawmidi          32768  1 snd_seq_midi
aesni_intel         200704  0
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

root@kayonpc27: /home/kayon-pc27# lsmod
Module              Size  Used by
joydev              24576  0
input_leds          16384  0
snd_hda_codec_hdmi  49152  1
nvidia_uvm          815104  0
eeepc_wmi            16384  0
asus_wmi             28672  1 eeepc_wmi
sparse_keymap       16384  1 asus_wmi
wmi_bmf             16384  0
gpio_ich            16384  0
intel_rapl          20480  0
x86_pkg_temp_thermal 16384  0
intel_powerclamp    16384  0
coretemp            16384  0
kvm_intel            208896  0
kvm                  626688  1 kvm_intel
irqbypass           16384  1 kvm
crt18d0if_pclmul    16384  0
crc32_pclmul        16384  0
ghash_clmulni_intel 16384  0
pcbc                16384  0
snd_seq_midi         16384  0
snd_seq_midi_event   16384  1 snd_seq_midi
snd_rawmidi          32768  1 snd_seq_midi
aesni_intel         200704  0
snd_hda_codec_realtek 106496  1
snd_hda_codec_generic 73728  1 snd_hda_codec_realtek
aes_x86_64          20480  1 aesni_intel
crypto_simd         16384  1 aesni_intel
cryptd              24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
glue_helper         16384  1 aesni_intel
sch_fq_codel        20480  2
intel_cstate        20480  0
intel_rapl_perf     16384  0
snd_seq              65536  2 snd_seq_midi,snd_seq_midi_event
wmi                 24576  2 asus_wmi,wmi_bmf
snd_hda_intel        40960  2
snd_hda_codec        126976  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
snd_hda_core          81920  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
snd_hwdsp             20480  1 snd_hda_codec
snd_seq_device       16384  3 snd_seq,snd_seq_midi,snd_rawmidi
lpc_ich              24576  0
snd_pcm              98304  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
snd_timer            32768  0
snd                  81920  15 snd_hda_codec_generic,snd_seq,snd_seq_device,snd_hda_codec_hdmi,snd_hwdsp,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek,snd_timer,snd_pcm,snd_rawmidi
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

kayon-pc27- 1785  0.0  0.1 177136 14448 ? S  07:22  0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-1.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libsystray.so 4 8388634 systray
kayon-pc27- 1786  0.0  0.4 410544 32992 ? S  07:22  0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libnotification-plugin.so 5 8388
kayon-pc27- 1787  0.0  0.3 406736 29748 ? S  07:22  0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libindicator-plugin.so 6 8388636
kayon-pc27- 1788  0.0  0.4 564524 33816 ? S  07:22  0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libstatusnotifier.so 7 8388637 s
kayon-pc27- 1789  0.0  0.4 412780 33072 ? S  07:22  0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libxfce4powermanager.so 8 838863
kayon-pc27- 1790  0.0  0.4 706720 34932 ? S  07:22  0:03 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libpulseaudio-plugin.so 9 838863
kayon-pc27- 1810  0.0  0.1 320652 10512 ? Ssl 07:22  0:00 /usr/lib/gvfs/gvfs-udisks2-volume-monitor
kayon-pc27- 1811  0.0  0.1 391924 9792 ? Ssl 07:22  0:00 /usr/lib/x86_64-linux-gnu/indicator-messages/indicator-messages-service
kayon-pc27- 1819  0.0  0.0 289264 6752 ? Ssl 07:22  0:00 /usr/lib/gvfs/gvfs-gphoto2-volume-monitor
kayon-pc27- 1823  0.0  0.0 274512 5920 ? Ssl 07:22  0:00 /usr/lib/gvfs/gvfs-goa-volume-monitor
kayon-pc27- 1827  0.0  0.0 379280 7788 ? Ssl 07:22  0:00 /usr/lib/gvfs/gvfs-afc-volume-monitor
kayon-pc27- 1832  0.0  0.0 276340 6136 ? Ssl 07:22  0:00 /usr/lib/gvfs/gvfs-mtp-volume-monitor
kayon-pc27- 1840  0.0  0.1 384484 9740 ? S  07:22  0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.15 /org/gtk/gvfs/exec_spaw/0
kayon-pc27- 1869  0.0  0.0 204836 4876 ? Ssl 07:22  0:00 /usr/lib/gvfs/gvfsd-metadata
kayon-pc27- 1875  0.0  0.0 82724 7072 ? Ss  07:22  0:00 /usr/lib/bluetooth/obexd
root  1892  0.0  0.1 302088 14000 ? Ssl 07:22  0:00 /usr/lib/packagekit/packagekitd
kayon-pc27- 2758  0.6  0.6 821524 50428 ? RL  07:24  0:19 /usr/bin/xfce4-terminal
kayon-pc27- 2762  0.0  0.0 30036 4784 pts/0 Ss  07:24  0:00 bash
root  2771  0.0  0.0 73428 4332 pts/0 S  07:24  0:00 sudo su
root  2772  0.0  0.0 72716 3996 pts/0 S  07:24  0:00 su
root  2773  0.0  0.0 30088 5064 pts/0 S  07:24  0:00 bash
root  2829  0.0  0.0 108152 8028 ? Ss  07:27  0:00 /usr/sbin/cupsd -l
root  2830  0.0  0.1 303520 11164 ? Ssl 07:27  0:00 /usr/sbin/cups-browsed
kayon-pc27- 2929  0.0  0.0 153016 6200 ? S  07:32  0:00 /usr/lib/libreoffice/program/oosplash --writer
kayon-pc27- 2946  1.4  2.2 110696 180140 ? S  07:32  0:37 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
kayon-pc27- 3282  3.0  4.3 3264496 353340 ? S  07:34  1:15 /usr/lib/firefox/firefox
kayon-pc27- 3380  0.0  1.3 2562752 107136 ? S  07:34  0:01 /usr/lib/firefox/firefox -contentproc -childID 2 -isForBrowser -prefsLen 6185 -prefMapSize 192731 -parentBuildID 20190828152820
kayon-pc27- 3458  0.6  1.8 2650232 153928 ? S  07:34  0:16 /usr/lib/firefox/firefox -contentproc -childID 4 -isForBrowser -prefsLen 6853 -prefMapSize 192731 -parentBuildID 20190828152820
kayon-pc27- 3524  1.1  2.5 2861804 207732 ? S  07:36  0:26 /usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 7362 -prefMapSize 192731 -parentBuildID 20190828152820
kayon-pc27- 4954  0.2  1.8 2620652 148392 ? S  07:44  0:04 /usr/lib/firefox/firefox -contentproc -childID 8 -isForBrowser -prefsLen 7619 -prefMapSize 192731 -parentBuildID 20190828152820
root  4993  0.0  0.0 0 0 ? I  07:45  0:00 [worker/0:0-eve]
root  5058  0.0  0.0 0 0 ? I  07:49  0:00 [worker/2:0-cgr]
kayon-pc27- 5063  0.1  1.8 2633280 151252 ? S  07:49  0:02 /usr/lib/firefox/firefox -contentproc -childID 10 -isForBrowser -prefsLen 7666 -prefMapSize 192731 -parentBuildID 20190828152820
kayon-pc27- 5111  0.8  2.3 2677364 186608 ? S  07:49  0:13 /usr/lib/firefox/firefox -contentproc -childID 11 -isForBrowser -prefsLen 7666 -prefMapSize 192731 -parentBuildID 20190828152820
kayon-pc27- 5152  0.3  2.1 2672780 176588 ? S  07:51  0:04 /usr/lib/firefox/firefox -contentproc -childID 12 -isForBrowser -prefsLen 7666 -prefMapSize 192731 -parentBuildID 20190828152820
root  5450  0.0  0.0 0 0 ? I  07:55  0:00 [worker/0:1-eve]
root  6021  0.0  0.0 0 0 ? I  07:58  0:00 [worker/u0:1-ev]
kayon-pc27- 6053  0.0  0.6 544516 51200 ? S  07:59  0:00 ristretto /home/kayon-pc27/Pictures/Screenshot_2019-10-09_16-53-57.png
kayon-pc27- 6062  0.0  0.9 2527676 76404 ? S  07:59  0:00 /usr/lib/firefox/firefox -contentproc -childID 15 -isForBrowser -prefsLen 7820 -prefMapSize 192731 -parentBuildID 20190828152820
kayon-pc27- 6110  0.0  0.1 458296 9400 ? S  08:00  0:00 /usr/lib/gvfs/gvfsd-network --spawner :1.15 /org/gtk/gvfs/exec_spaw/2
kayon-pc27- 6130  0.0  0.0 455492 7824 ? S  08:00  0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.15 /org/gtk/gvfs/exec_spaw/5
root  6391  0.1  0.0 0 0 ? I  08:10  0:00 [worker/u0:2-ev]
root  6392  0.1  0.0 0 0 ? I  08:10  0:00 [worker/u0:3-ev]
root  6450  0.0  0.0 47240 3676 pts/0 R+ 08:16  0:00 ps -auxu

root@kayonpc27: /home/kayon-pc27#
```

```
Terminal - root@kayonpc27: /home/kayon-pc27

kayon-pc27- 6062 0.0 0.9 2527676 76404 ? S1 07:59 0:00 /usr/lib/firefox/firefox -contentproc -childID 15 -isForBrowser -prefsLen 7820 -prefMapSize 192731 -parentBuildID 20190828152820
kayon-pc27- 6110 0.0 0.1 450296 9400 ? S1 08:00 0:00 /usr/lib/gvfs/gvfsd-network --spawner :1.15 /org/gtk/gvfs/exec_spaw/2
kayon-pc27- 6130 0.0 0.0 455492 7824 ? S1 08:00 0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.15 /org/gtk/gvfs/exec_spaw/5
root 6391 0.1 0.0 0 0 ? I 08:10 0:00 [kworker/u8:2-ew]
root 6392 0.1 0.0 0 0 ? I 08:10 0:00 [kworker/u8:3-ew]
root 6450 0.0 0.0 47240 3676 pts/0 R+ 08:16 0:00 ps -aux
root@kayonpc27: /home/kayon-pc27# lspci
00:00.0 Host bridge: Intel Corporation 4th Gen Core Processor DRAM Controller (rev 06)
00:01.0 PCI bridge: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor PCI Express x16 Controller (rev 06)
00:14.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB xHCI (rev 05)
00:16.0 Communication controller: Intel Corporation 8 Series/C220 Series Chipset Family MEI Controller #1 (rev 04)
00:1a.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB EHCI #2 (rev 05)
00:1b.0 Audio device: Intel Corporation 8 Series/C220 Series Chipset High Definition Audio Controller (rev 05)
00:1c.0 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #1 (rev d5)
00:1c.2 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (rev d5)
00:1c.5 PCI bridge: Intel Corporation 82801 PCI Bridge (rev d5)
00:1d.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB EHCI #1 (rev 05)
00:1f.0 ISA bridge: Intel Corporation H81 Express LPC Controller (rev 05)
00:1f.2 SATA controller: Intel Corporation 8 Series/C220 Series Chipset Family 6-port SATA Controller 1 [AHCI mode] (rev 05)
00:1f.3 SMBus: Intel Corporation 8 Series/C220 Series Chipset Family SMBus Controller (rev 05)
01:00.0 VGA compatible controller: NVIDIA Corporation GM107 [GeForce GTX 750 Ti] (rev a2)
01:00.1 Audio device: NVIDIA Corporation Device 0fbc (rev a1)
03:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc27: /home/kayon-pc27# free
              total        used        free      shared  buff/cache   available
Mem:      8106416      1114044      5631684      116800      1360688      6606768
Swap:      947080           0       947080
root@kayonpc27: /home/kayon-pc27# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping      : 3
microcode     : 0x27
cpu MHz        : 798.231
cache size     : 6144 KB
physical id    : 0
siblings       : 4
core id        : 0
cpu cores      : 4
apicid         : 0
initial apicid : 0
fpu            : yes
fpu exception  : yes
```

```
Terminal - root@kayonpc27: /home/kayon-pc27

fpu exception   : yes
cpuid level     : 13
wp              : yes
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon
pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne timer aes xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid
xsaveopt dtherm ida arat pln pts md_clear flush_l1d
bugs            : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds
bogomips        : 6584.98
clflush size    : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor       : 3
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping      : 3
microcode     : 0x27
cpu MHz        : 798.185
cache size     : 6144 KB
physical id    : 0
siblings       : 4
core id        : 3
cpu cores      : 4
apicid         : 6
initial apicid : 6
fpu            : yes
fpu exception  : yes
cpuid level    : 13
wp              : yes
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon
pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne timer aes xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid
xsaveopt dtherm ida arat pln pts md_clear flush_l1d
bugs            : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds
bogomips        : 6584.98
clflush size    : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

root@kayonpc27: /home/kayon-pc27#
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
kayon-pc27@kayonpc27:~$ sudo apt install finger
E: dpkg was interrupted, you must manually run 'sudo dpkg --configure -a' to correct the problem.
kayon-pc27@kayonpc27:~$ sudo su
root@kayonpc27:/home/kayon-pc27# finger root

Command 'finger' not found, but can be installed with:

apt install finger

root@kayonpc27:/home/kayon-pc27# reboot
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
kayon-pc27@kayonpc27:~$ sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]
usage: sudo [-AbEHknPS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] [VAR=value] [-i|-s] [<command>]
usage: sudo -e [-AknS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] file ...
kayon-pc27@kayonpc27:~$ sudo su
root@kayonpc27:/home/kayon-pc27# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc27:/home/kayon-pc27# ls -l
total 32
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep  4 14:28 Desktop
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Okt  9 17:33 Documents
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep  4 14:28 Downloads
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep  4 14:28 Music
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Okt  9 17:06 Pictures
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep  4 14:28 Public
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep  4 14:28 Templates
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Okt 10 08:21 Videos
root@kayonpc27:/home/kayon-pc27# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc27:/home/kayon-pc27# whatis ls
ls (1) - list directory contents
root@kayonpc27:/home/kayon-pc27# whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
root@kayonpc27:/home/kayon-pc27# mkdir informatika
root@kayonpc27:/home/kayon-pc27# rmdir informatika
root@kayonpc27:/home/kayon-pc27# touch rpltxt
root@kayonpc27:/home/kayon-pc27# rm rpltxt
root@kayonpc27:/home/kayon-pc27# which mkdir
/bin/mkdir
root@kayonpc27:/home/kayon-pc27# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc27:/home/kayon-pc27# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4012964        0   4012964   0% /dev
tmpfs           810644       1348    809296   1% /run
/dev/sda4       26027216 8510944   10475888 45% /
tmpfs           4053208        0   4053208   0% /dev/shm
tmpfs           5120          4     5116    1% /run/lock
tmpfs           4053208        0   4053208   0% /sys/fs/cgroup
tmpfs           810640       12     810628   1% /run/user/1000
root@kayonpc27:/home/kayon-pc27#
```



```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/statusbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/toolbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/menubar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/popupmenu
28 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/StartModule/images/Bitmaps
8 ./config/libreoffice/4/user/config/soffice.cfg/modules/StartModule/images
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/StartModule/statusbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/StartModule/toolbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/StartModule/menubar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/StartModule/popupmenu
28 ./config/libreoffice/4/user/config/soffice.cfg/modules/StartModule
60 ./config/libreoffice/4/user/config/soffice.cfg/modules
64 ./config/libreoffice/4/user/config/soffice.cfg
108 ./config/libreoffice/4/user/config
12 ./config/libreoffice/4/user/gallery
16 ./config/libreoffice/4/user/basic/Standard
28 ./config/libreoffice/4/user/basic
4 ./config/libreoffice/4/user/psprint
408 ./config/libreoffice/4/user/backup
2004 ./config/libreoffice/4/user
2012 ./config/libreoffice/4
2016 ./config/libreoffice
4 ./config/kicad
8 ./config/xubuntu
16 ./config/thunar
8 ./config/ristretto
8 ./config/gtk-2.0
8 ./config/gtk-3.0
20 ./config/neofetch
84 ./config/pulse
8 ./config/dconf
2380 ./config
44 ./gnome2/gtksourceview-1.0/language-specs
48 ./gnome2/gtksourceview-1.0
52 ./gnome2
3420 ./Videos
460 ./thumbnails/normal
464 ./thumbnails
4 ./Templates
122564 .
root@kayonpc27: /home/kayon-pc27#
```

```
Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
464 ./thumbnails
4 ./Templates
122564 .
root@kayonpc27: /home/kayon-pc27# free
              total        used        free      shared  buff/cache   available
Mem:      8106416    408316    6944552         6692     733548     7449240
Swap:      947080           0     947080

root@kayonpc27: /home/kayon-pc27# pstree
systemd--ModemManager--2*[{ModemManager}]
      |
      |--NetworkManager--dhcpcd
      |   |
      |   |--Thunar
      |   |--accounts-daemon--2*[{accounts-daemon}]
      |   |--acpid
      |   |--avahi-daemon--avahi-daemon
      |   |--cron
      |   |--cups-browsed--2*[{cups-browsed}]
      |   |--cupsd
      |   |--dbus-daemon
      |   |--gnome-keyring-d--3*[{gnome-keyring-d}]
      |   |--irqbalance--[{irqbalance}]
      |   |--2*[{kerneloops}]
      |   |--lightdm--Xorg--Xorg
      |       |
      |       |--lightdm--sh--ssh-agent
      |       |   |
      |       |   |--xfce4-session--applet.py--[{applet.py}]
      |       |   |   |
      |       |   |   |--blueman-applet--3*[{blueman-applet}]
      |       |   |   |--light-locker--3*[{light-locker}]
      |       |   |   |--nm-applet--3*[{nm-applet}]
      |       |   |   |--polkit-gnome-au--2*[{polkit-gnome-au}]
      |       |   |   |--update-notifier--3*[{update-notifier}]
      |       |   |   |--2*[{xfce4-session}]
      |       |   |
      |       |   |--2*[{lightdm}]
      |       |   |
      |       |   |--2*[{lightdm}]
      |       |
      |       |--lvmetad
      |       |--networkd-dispatcher--[{networkd-dispatcher}]
      |       |--nvidia-persistenced
      |       |--packagekitd--2*[{packagekitd}]
      |       |--polkitd--2*[{polkitd}]
      |       |--pulseaudio--[{pulseaudio}]
      |       |--rsyslogd--3*[{rsyslogd}]
      |       |--rtkit-daemon--2*[{rtkit-daemon}]
      |       |--sshd
```