

NIM : L200180214

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Terminal - root@kayon-pc26:/home/kayon-pc26/

File Edit View Terminal Tabs Help

root@kayon-pc26:/home/kayon-pc26# echo halo dunia
halo dunia
root@kayon-pc26:/home/kayon-pc26# date
Wed Oct 9 16:45:41 WIB 2019
root@kayon-pc26:/home/kayon-pc26# hostname
kayon-pc26
root@kayon-pc26:/home/kayon-pc26# arch
x86_64
root@kayon-pc26:/home/kayon-pc26# uname -a
Linux kayon-pc26 5.0.0-31-generic #31~19.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayon-pc26:/home/kayon-pc26# dmesg | more
[    0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[    0.000000] Linux version 5.0.0-31-generic (buildid=gWl-amd64-046) (gcc version 7.4.0 (Ubuntu 7.4.0-1ubuntu1-18.04.1)) #31~19.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2019 (Ubuntu 5.0.0-31.3-19.04.1-generic 5.0.21)
[    0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.0.0-31-generic root=UUID=a7d60943-9374-4327-9268-86d71d1d0dal ro quiet splash vt.handoff=1
[    0.000000] KERNEL supported cpus:
[    0.000000] Intel GenuineIntel
[    0.000000] AMD AuthenticAMD
[    0.000000] Hygon HygonGenuine
[    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 0x0000000000000000-0x0000000000009d7fff] usable
[    0.000000] BIOS-e820: [mem 0x0000000000009d8000-0x000000000000000009ffff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000000000000-0x000000000000000000ffffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000000100000-0x00000000000cb5ecffff] usable
[    0.000000] BIOS-e820: [mem 0x00000000cb5ed000-0x00000000cb5f3ffff] ACPI NVS
[    0.000000] BIOS-e820: [mem 0x00000000cb5f4000-0x00000000cb5fa4ffff] usable
[    0.000000] BIOS-e820: [mem 0x00000000cb5f5000-0x00000000cb5f7ffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000cb5f8000-0x00000000db5c7cffff] usable
[    0.000000] BIOS-e820: [mem 0x00000000db5c8000-0x00000000db5dd0ffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000db5dd10000-0x00000000db5de9ffff] ACPI data
[    0.000000] BIOS-e820: [mem 0x00000000db5dea0000-0x00000000db5fedffff] ACPI NVS
[    0.000000] BIOS-e820: [mem 0x00000000db5fe00000-0x00000000db5ffeffffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000db5ff00000-0x00000000db5ffeffffff] usable
[    0.000000] BIOS-e820: [mem 0x00000000fb000000-0x00000000fb5fffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000fec00000-0x00000000fec00fff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000fed00000-0x00000000fed03ffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000fed1c000-0x00000000fed1ffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000fee00000-0x00000000fee00fff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000ff000000-0x00000000ffffffff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000100000000-0x000000021effffff] usable
```

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Terminal - root@kayon-pc26:/home/kayon-pc26
File Edit View Terminal Tabs Help
[ 0.000000] BIOS-e820: [mem 0x00000000dd9d1000-0x00000000dd9e9fff] ACPI data
[ 0.000000] BIOS-e820: [mem 0x00000000dd9ea000-0x00000000dd9f26fff] ACPI NVS
[ 0.000000] BIOS-e820: [mem 0x00000000ddf27000-0x00000000defefffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000defff000-0x00000000defefffff] usable
[ 0.000000] BIOS-e820: [mem 0x00000000f5000000-0x00000000fbfffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000fec00000-0x00000000fec00ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000fed00000-0x00000000fed03ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000fed1c000-0x00000000fed1fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000fee00000-0x00000000fee00ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000ff000000-0x00000000fffffffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000100000000-0x000000021efffff] usable
[ 0.000000] NX (Execute Disable) protection: active
[ 0.000000] SMBIOS 2.7 present.
[ 0.000000] DMI: ASUSTek COMPUTER INC. BM2AD D310312S10MT_E03/BM2AD D310312S10MT_E03, BIOS 0002 07/28/2015
[ 0.000000] tsc: Fast TSC calibration using PIT
[ 0.000000] tsc: Detected 3292.511 Mhz processor
[ 0.001568] e820: update [mem 0x00000000-0x000000fff] usable ==> reserved
[ 0.001568] e820: remove [mem 0x000a0000-0x000fffff] usable
[ 0.001573] last_pfn = 0x21f000 max_arch_pfn = 0x400000000
[ 0.001576] MTRR default type: uncachable
root@kayon-pc26:/home/kayon-pc26# uptime
16:46:08 up 13 min, 1 user, load average: 0.00, 0.07, 0.13
root@kayon-pc26:/home/kayon-pc26# whoami
root
root@kayon-pc26:/home/kayon-pc26# who
kayon-pc26 tty7      2019-10-09 23:33 (:0)
root@kayon-pc26:/home/kayon-pc26# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc26:/home/kayon-pc26# last
kayon-pc tty7      :0      Wed Oct 9 23:33   gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:32   still running
kayon-pc tty7      :0      Wed Oct 9 00:22 - 17:35 (-8:46)
reboot system boot 5.0.0-31-generic Wed Oct 9 00:21 - 17:36 (-6:45)
kayon-pc tty7      :0      Tue Oct 8 16:14 - 16:43 (00:28)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:14 - 16:43 (00:28)

wtm# begins Tue Oct 8 15:43:58 2019
root@kayon-pc26:/home/kayon-pc26# finger
Login Name Tty Idle Login Time Office Office Phone
kayon-pc26 kayon-pc26 tty7 Oct 9 23:33 (:0)
root@kayon-pc26:/home/kayon-pc26# w
16:46:21 up 13 min, 1 user, load average: 0.00, 0.07, 0.12
USER TTY FROM LOGIN# IDLE JCPU PCPU WHAT
kayon-pc tty7 :0 23:33 7 3.70s 0.02s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayon-pc26:/home/kayon-pc26#

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Terminal - root@kayon-pc26: /home/kayon-pc26

top - 16:47:30 up 14 min, 1 user, load average: 0,04, 0,07, 0,12
Tasks: 180 total, 1 running, 138 sleeping, 0 stopped, 0 zombie
%cpu(s): 0,2 us, 0,2 sy, 0,0 ni, 99,6 id, 0,0 wa, 0,0 hi, 0,1 si, 0,0 st
KiB Mem : 5183664 total, 6942076 free, 485712 used, 755876 buff/cache
KiB Swap: 2097148 total, 2097148 free, 0 used, 7446184 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
  929 root        20   0 313552 55884 40456 S   0,3   0,7   0:05.33 Xorg
  930 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 nv_queue
4734 kayon-p+  20   0 583456 39576 29224 S   0,3   0,5   0:02.93 xfce4-terminal
6389 root        20   0 51672 4312 3620 R   0,3   0,1   0:00.02 top
   1 root        20   0 159752 9140 6888 S   0,0   0,1   0:01.16 systemd
   2 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 kthreadd
   3 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 rcu_gp
   4 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 rcu_par_gp
   5 root        20   0 0 0 0 0 I   0,0   0,0   0:00:00 kworker/0:0-eve
   6 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 kworker/0:0H-kb
   8 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 mm_percpu_wq
   9 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 ksoftirqd/0
  10 root        20   0 0 0 0 0 I   0,0   0,0   0:00:31 rcu_sched
  11 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/0
  12 root       -51   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/0
  13 root        20   0 0 0 0 0 I   0,0   0,0   0:00:07 kworker/0:1-mm_
  14 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 cpuhp/0
  15 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 cpuhp/1
  16 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/1
  17 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/1
  18 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 ksoftirqd/1
  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 0 S   0,0   0,0   0:00:00 cpuhp/2
  22 root       -51   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/2
  23 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/2
  24 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 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 0 S   0,0   0,0   0:00:00 cpuhp/3
  28 root       -51   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/3
  29 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/3
  30 root        20   0 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 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
  35 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 rcu_tasks_kthre
  36 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 kauditd
  37 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 khungtaskd
  38 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 oom_reaper
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
  929 root        20   0 314832 56268 40840 S  12,3   0,7   0:05.70 Xorg
  6390 kayon-p+  20   0 760000 33036 23576 S   4,3   0,4   0:00.13 xfce4-screensho
  4734 kayon-p+  20   0 583456 39576 29224 S   1,7   0,5   0:02.98 xfce4-terminal
 1087 kayon-p+  20   0 50484 5828 3984 S   0,3   0,1   0:00.29 dbus-daemon
 1183 kayon-p+  20   0 191480 21960 17700 S   0,3   0,3   0:00.68 xfwm4
 1187 kayon-p+  20   0 407040 28684 22424 S   0,3   0,4   0:00.14 xfce4-panel
 1456 kayon-p+  20   0 379280 7684 6888 S   0,3   0,1   0:00.01 gvfs-afc-volume
 1461 kayon-p+  20   0 276340 4996 4528 S   0,3   0,1   0:00.01 gvfs-mtp-volume
6389 root        20   0 51672 4312 3620 R   0,3   0,1   0:00.03 top
   1 root        20   0 159752 9140 6888 S   0,0   0,1   0:01.16 systemd
   2 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 kthreadd
   3 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 rcu_gp
   4 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 rcu_par_gp
   5 root        20   0 0 0 0 0 I   0,0   0,0   0:00:00 kworker/0:0-eve
   6 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 kworker/0:0H-kb
   8 root        0 -20 0 0 0 0 I   0,0   0,0   0:00:00 mm_percpu_wq
   9 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 ksoftirqd/0
  10 root        20   0 0 0 0 0 I   0,0   0,0   0:00:31 rcu_sched
  11 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/0
  12 root       -51   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/0
  13 root        20   0 0 0 0 0 I   0,0   0,0   0:00:07 kworker/0:1-mm_
  14 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 cpuhp/0
  15 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 cpuhp/1
  16 root       -51   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/1
  17 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/1
  18 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 ksoftirqd/1
  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 0 S   0,0   0,0   0:00:00 cpuhp/2
  22 root       -51   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/2
  23 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/2
  24 root        20   0 0 0 0 0 S   0,0   0,0   0:00:00 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 0 S   0,0   0,0   0:00:00 cpuhp/3
  28 root       -51   0 0 0 0 0 S   0,0   0,0   0:00:00 idle_inject/3
  29 root        rt    0 0 0 0 0 S   0,0   0,0   0:00:00 migration/3
  30 root        20   0 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 0 S   0,0   0,0   0:00:00 kdevtmpfs

root@kayon-pc26:/home/kayon-pc26# echo $SHELL
/bin/bash
root@kayon-pc26:/home/kayon-pc26# echo {con,pre} {sent,fer} {s,ed}
{con,pre} {sent,fer} {s,ed}
root@kayon-pc26:/home/kayon-pc26# man ls
root@kayon-pc26:/home/kayon-pc26#
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
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 (press h for help or q to quit)
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
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 (press h for help or q to quit)
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
5 root 20 0 0 0 0 I 0 0 0 0 0:00.00 kworker/0:0-eve
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 0:00.00 ksoftirqd/0
10 root 20 0 0 0 0 I 0 0 0 0 0:00.31 rcu_sched
11 root rt 0 0 0 0 S 0 0 0 0 0:00.00 migration/0
12 root -51 0 0 0 0 S 0 0 0 0 0:00.00 idle_inject/0
13 root 20 0 0 0 0 I 0 0 0 0 0:00.07 kworker/0:1-mm_
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 -51 0 0 0 0 S 0 0 0 0 0:00.00 idle_inject/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 0:00.00 ksoftirqd/1
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 -51 0 0 0 0 S 0 0 0 0 0:00.00 idle_inject/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 0:00.00 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 -51 0 0 0 0 S 0 0 0 0 0:00.00 idle_inject/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
root@kayon-pc26:/home/kayon-pc26# echo $SHELL
/bin/bash
root@kayon-pc26:/home/kayon-pc26# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayon-pc26:/home/kayon-pc26# man ls
root@kayon-pc26:/home/kayon-pc26# man ls
root@kayon-pc26:/home/kayon-pc26# man who
root@kayon-pc26:/home/kayon-pc26# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc26:/home/kayon-pc26# last
kayon-pc tty7 :0 Wed Oct 9 23:33 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:32 still running
kayon-pc tty7 :0 Wed Oct 9 00:22 - 17:35 (-6:46)
reboot system boot 5.0.0-31-generic Wed Oct 9 00:21 - 17:36 (-6:45)
kayon-pc tty7 :0 Tue Oct 8 16:14 - 16:43 (00:28)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:14 - 16:43 (00:28)

wtmp begins Tue Oct 8 15:43:58 2019
root@kayon-pc26:/home/kayon-pc26# clear
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
root@kayon-pc26:/home/kayon-pc26# fdisk -l
fdisk: invalid option -- 'l'
Try 'fdisk --help' for more information.
root@kayon-pc26:/home/kayon-pc26# users
kayon-pc26
root@kayon-pc26:/home/kayon-pc26# cat/etc/fstab
bash: cat/etc/fstab: No such file or directory
root@kayon-pc26:/home/kayon-pc26# cal 2000
2000
January February March
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 May 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
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 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
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 Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa 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@kayon-pc26:/home/kayon-pc26# cal 9 1752
September 1752
```



```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
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
5 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@kayon-pc26:/home/kayon-pc26# 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@kayon-pc26:/home/kayon-pc26# cal 10 2007
Oktober 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 31

root@kayon-pc26:/home/kayon-pc26# cal 2 2001
Februari 2001
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

root@kayon-pc26:/home/kayon-pc26# bc -l
bc: invalid option -- 'l'
usage: bc [options] [file ...]
-h --help print this usage and exit
-i --interactive force interactive mode
-l --mathlib use the predefined math routines
-q --quiet don't print initial banner
-s --standard non-standard bc constructs are errors
-w --warn warn about non-standard bc constructs
-v --version print version information and exit
root@kayon-pc26:/home/kayon-pc26# quit
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
157 dpkg --configure -a
158 apt purge lvm2
159 clear
160 apt autoremove
161 apt autoclean
162 clear
163 apt install ubiquity ubiquity-frontend-gtk
164 apt install -f
165 apt install lvm2
166 apt install --reinstall ubiquity ubiquity-frontend-gtk
167 clear
168 clear
169 clear
170 nano /usr/share/plymouth/themes/xubuntu-text/xubuntu-text.plymouth
171 cd /usr/share/ubiquity/gtk/
172 ls
173 cd ..
174 cd pixmaps/
175 ls
176 cd ..
177 ls
178 cd ubiquity-slideshow/
179 ls
180 cd slides/
181 ls
182 nano 01_welcome.html
183 clear
184 apt update
185 clear
186 apt autoremove
187 apt autoclean
188 apt install -f
189 apt install -a
190 apt install -f
191 dpkg --install -f
192 dpkg --install -a
193 dpkg --configure -a
194 clear
195 clear
196 cd /home/master/
197 ls
198 clear
199 rm -rf .cache/ -v
200 clear
201 apt update
202 nano /etc/lsb-release
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
337 unzip GvRng_4.4.zip
338 ls
339 rm -rf GvRng_4.4
340 unzip GvRng_4.4.zip
341 rm -rf GvRng_4.4.zip
342 ls
343 cd GvRng_4.4/
344 ls
345 nano /usr/games/gvrng
346 chmod -x /opt/GvRng_4.4/gvrng.py
347 cd ..
348 l
349 rm -rf GvRng_4.4/
350 cd /home/master/
351 s
352 ls
353 chmod -x /usr/share/GvRng/gvrng.py
354 ls
355 nano /usr/games/gvrng
356 chmod +x /usr/games/gvrng
357 history
358 ls
359 dpkg -i mysql-apt-config_0.8.13-1_all.deb
360 apt update
361 apt upgrade
362 apt install mysql-workbench-community
363 clear
364 cd /opt/
365 ls
366 mkdir pt
367 tar -zxvf Packet\ Tracer\ 7.2.1\ for\ Linux\ 64\ bit.tar.gz -C /opt/pt
368 cd /opt/pt/
369 ls
370 ./install
371 cd ..
372 rm -rf pt/
373 tar -zxvf Packet\ Tracer\ 7.2.1\ for\ Linux\ 64\ bit.tar.gz -C pt
374 cd /home/master/
375 tar -zxvf Packet\ Tracer\ 7.2.1\ for\ Linux\ 64\ bit.tar.gz -C pt
376 cd pt/
377 ls
378 ./install
379 cd ..
380 ex
381 exit
382 nano /etc/apt/sources.list
Terminal - root@kayon-pc26: ...
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
root@kayon-pc26:/home/kayon-pc26# tail -f /var/log/message
tail: invalid option -- 'f'
Try 'tail --help' for more information.
root@kayon-pc26:/home/kayon-pc26# "C
root@kayon-pc26:/home/kayon-pc26# lsmod
Module              Size  Used by
ufs                  81920  0
qnx4                 16384  0
hfsplus             110592  0
hfs                  61440  0
minix                36864  0
ntfs                 106496  0
msdos                20480  0
jfs                  188416  0
xfs                  1236992  0
intel_rapl           24576  0
x86_pkg_temp_thermal 20480  0
intel_powerclamp     20480  0
coretemp             20480  0
kvm_intel            241664  0
kvm                  630784  1 kvm_intel
irqbypass            16384  1 kvm
snd_hda_codec_realtek 114688  1
snd_hda_codec_hdmi   53248  1
snd_hda_codec_generic 77824  1 snd_hda_codec_realtek
crct10dif_pclmul     16384  1
crc32_pclmul         16384  0
ledtrig_audio        16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
ghash_clmulni_intel  16384  0
aesni_intel          372736  0
aes_x86_64           20480  1 aesni_intel
crypto_simd           16384  1 aesni_intel
snd_hda_intel         49152  2
snd_hda_codec        133168  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
snd_hda_core          86016  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
cryptd                24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
glue_helper           16384  1 aesni_intel
snd_hwdep             20480  1 snd_hda_codec
snd_pcm              102400  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
snd_seq_midi          20480  0
snd_seq_midi_event    16384  1 snd_seq_midi
snd_ramrmi            36864  1 snd_seq_midi
snd_seq               69632  2 snd_seq_midi,snd_seq_midi_event
intel_cstate          20480  0
snd_seq_device        16384  3 snd_seq,snd_seq_midi,snd_ramrmi
intel_rapl_perf       16384  0
Terminal - root@kayon-pc26: ...
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
video 49152 1 asus_wmi
root@kayon-pc26:~# ps -aux
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND
root 1 0.0 0.1 159752 9140 ? Ss 16:32 0:01 /sbin/init splash
root 2 0.0 0.0 0 0 ? S 16:32 0:00 [kthreadd]
root 3 0.0 0.0 0 0 ? I< 16:32 0:00 [rcu_gp]
root 4 0.0 0.0 0 0 ? I< 16:32 0:00 [rcu_par_gp]
root 5 0.0 0.0 0 0 ? I 16:32 0:00 [kworker/0:8-eve]
root 6 0.0 0.0 0 0 ? I< 16:32 0:00 [kworker/0:0H-kb]
root 8 0.0 0.0 0 0 ? I< 16:32 0:00 [mm_percpu_wq]
root 9 0.0 0.0 0 0 ? S 16:32 0:00 [ksoftirqd/0]
root 10 0.0 0.0 0 0 ? I 16:32 0:00 [rcu_sched]
root 11 0.0 0.0 0 0 ? S 16:32 0:00 [migration/0]
root 12 0.0 0.0 0 0 ? S 16:32 0:00 [idle_inject/0]
root 13 0.0 0.0 0 0 ? I 16:32 0:00 [kworker/0:1-eve]
root 14 0.0 0.0 0 0 ? S 16:32 0:00 [cpuhp/0]
root 15 0.0 0.0 0 0 ? S 16:32 0:00 [cpuhp/1]
root 16 0.0 0.0 0 0 ? S 16:32 0:00 [idle_inject/1]
root 17 0.0 0.0 0 0 ? S 16:32 0:00 [migration/1]
root 18 0.0 0.0 0 0 ? S 16:32 0:00 [ksoftirqd/1]
root 20 0.0 0.0 0 0 ? I< 16:32 0:00 [kworker/1:0H-kb]
root 21 0.0 0.0 0 0 ? S 16:32 0:00 [cpuhp/2]
root 22 0.0 0.0 0 0 ? S 16:32 0:00 [idle_inject/2]
root 23 0.0 0.0 0 0 ? S 16:32 0:00 [migration/2]
root 24 0.0 0.0 0 0 ? S 16:32 0:00 [ksoftirqd/2]
root 26 0.0 0.0 0 0 ? I< 16:32 0:00 [kworker/2:0H-kb]
root 27 0.0 0.0 0 0 ? S 16:32 0:00 [cpuhp/3]
root 28 0.0 0.0 0 0 ? S 16:32 0:00 [idle_inject/3]
root 29 0.0 0.0 0 0 ? S 16:32 0:00 [migration/3]
root 30 0.0 0.0 0 0 ? S 16:32 0:00 [ksoftirqd/3]
root 32 0.0 0.0 0 0 ? I< 16:32 0:00 [kworker/3:0H-kb]
root 33 0.0 0.0 0 0 ? S 16:32 0:00 [kdevtmpfs]
root 34 0.0 0.0 0 0 ? I< 16:32 0:00 [netns]
root 35 0.0 0.0 0 0 ? S 16:32 0:00 [rcu_tasks_kthre]
root 36 0.0 0.0 0 0 ? S 16:32 0:00 [kauditd]
root 37 0.0 0.0 0 0 ? S 16:32 0:00 [khungtaskd]
root 38 0.0 0.0 0 0 ? S 16:32 0:00 [oom_reaper]
root 39 0.0 0.0 0 0 ? I< 16:32 0:00 [writeback]
root 40 0.0 0.0 0 0 ? S 16:32 0:00 [kcompactd0]
root 41 0.0 0.0 0 0 ? SN 16:32 0:00 [ksmd]
root 42 0.0 0.0 0 0 ? SN 16:32 0:00 [khugepaged]
root 43 0.0 0.0 0 0 ? I< 16:32 0:00 [crypto]
root 44 0.0 0.0 0 0 ? I< 16:32 0:00 [integrityd]
root 45 0.0 0.0 0 0 ? I< 16:32 0:00 [kblockd]
root 46 0.0 0.0 0 0 ? I< 16:32 0:00 [tpm_dev_wq]
root 47 0.0 0.0 0 0 ? I< 16:32 0:00 [ata_sff]
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
root 833 0.0 0.0 110472 3660 ? Ssl 16:33 0:00 /usr/sbin/lrqlbalance --foreground
root 834 0.0 0.0 38892 3296 ? Ss 16:33 0:00 /usr/sbin/cron -f
root 836 0.0 0.0 108148 7988 ? Ss 16:33 0:00 /usr/sbin/cupsd -l
nvidia+ 848 0.0 0.0 17320 1824 ? Ss 16:33 0:00 /usr/bin/nvidia-persistenced --user nvidia-persistenced --no-persistence-mode --verbose
wmi 849 0.0 0.0 47072 340 ? S 16:33 0:00 nvml-daemon: chroot helper
root 850 0.0 0.1 303520 10724 ? Ssl 16:33 0:00 /usr/sbin/cups-browsed
root 851 0.0 0.1 303876 9616 ? Ssl 16:33 0:00 /usr/lib/policykit-1/polkitd --no-debug
root 904 0.0 0.2 194816 20172 ? Ssl 16:33 0:00 /usr/bin/python3 /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signal
root 917 0.0 0.0 290492 6920 ? Ssl 16:33 0:00 /usr/sbin/lightdm
root 918 0.0 0.0 72232 5768 ? Ss 16:33 0:00 /usr/sbin/sshd -D
root 929 0.0 0.6 313704 66164 tty7 Ssl 16:33 0:07 /usr/lib/Xorg/Xorg -core :0 -seat seat0 -auth /var/run/lightdm/root/:0 -nolisten tcp vt7 -novtswitch
root 934 0.0 0.0 25988 6496 ? S 16:33 0:00 /sbin/dhclient -d -q -sf /usr/lib/NetworkManager/nm-dhcp-helper -pf /run/dhclient-ens30.pid -lf /var/lib/NetworkManager/dhclient
root 951 0.1 0.0 0 0 ? S 16:33 0:01 [irq/28-nvidia]
root 952 0.0 0.0 0 0 ? S 16:33 0:00 [nvidia]
root 953 0.1 0.0 0 0 ? S 16:33 0:01 [nv_queue]
root 1047 0.0 0.0 258548 7656 ? Sl 16:33 0:00 lightdm --session-child 13 20
kayon-pt 1054 0.0 0.1 77040 8244 ? Ss 16:33 0:00 /lib/systemd/systemd --user
kayon-pt 1055 0.0 0.0 113900 2500 ? S 16:33 0:00 (sd-pam)
kayon-pt 1069 0.0 0.0 288712 6420 ? Sl 16:33 0:00 /usr/bin/gnome-keyring-daemon --daemonize --login
kayon-pt 1072 0.0 0.0 4624 1764 ? Ss 16:33 0:00 /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
kayon-pt 1087 0.0 0.0 50484 5028 ? Ss 16:33 0:00 /usr/bin/dbus-daemon --session --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
kayon-pt 1154 0.0 0.0 11300 316 ? Ss 16:33 0:00 /usr/bin/ssh-agent /usr/bin/ln-launch startxfce4
kayon-pt 1172 0.0 0.1 337384 14832 ? Sl 16:33 0:00 xfce4-session
kayon-pt 1176 0.0 0.0 59388 5348 ? S 16:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/xfconf/xfconfd
kayon-pt 1183 0.0 0.2 191480 21960 ? S 16:33 0:00 xfwm4 --replace
kayon-pt 1187 0.0 0.3 407040 28684 ? Sl 16:33 0:00 xfce4-panel
kayon-pt 1189 0.0 0.1 190248 13752 ? S 16:33 0:00 Thunar --daemon
kayon-pt 1191 0.0 0.4 530688 40092 ? Sl 16:33 0:00 xfdesktop
kayon-pt 1192 0.0 0.2 384992 17188 ? Ssl 16:33 0:00 xfsettingsd
kayon-pt 1196 0.0 0.3 580892 26872 ? Sl 16:33 0:00 update-notifier
kayon-pt 1200 0.0 0.2 332348 21784 ? Sl 16:33 0:00 /usr/lib/policykit-1-gnome/polkit-gnome-authentication-agent-1
kayon-pt 1201 0.0 0.7 680512 56732 ? Sl 16:33 0:00 /usr/bin/python3 /usr/bin/blueman-applet
kayon-pt 1204 0.0 0.4 262004 32820 ? Sl 16:33 0:00 /usr/bin/python3 /usr/share/system-config-printer/applet.py
kayon-pt 1206 0.0 0.2 408152 21456 ? Sl 16:33 0:00 lightlocker
kayon-pt 1215 0.0 0.2 360200 21976 ? Ssl 16:33 0:00 xfce4-power-manager
kayon-pt 1218 0.0 0.0 349192 6180 ? Ssl 16:33 0:00 /usr/lib/at-spi2-core/at-spi-bus-launcher
kayon-pt 1224 0.0 0.4 658144 38304 ? Sl 16:33 0:00 nm-applet
kayon-pt 1226 0.0 0.0 49920 4264 ? S 16:33 0:00 /usr/bin/dbus-daemon --config-file=/usr/share/defaults/at-spi2/accessibility.conf --nofork --print-address 3
kayon-pt 1233 0.0 0.0 187772 5692 ? Sl 16:33 0:00 /usr/lib/dconf/dconf-service
kayon-pt 1242 0.0 0.0 220652 6920 ? Sl 16:33 0:00 /usr/lib/at-spi2-core/at-spi2-registryd --use-gnome-session
root 1244 0.0 0.1 322788 8580 ? Ssl 16:33 0:00 /usr/lib/upower/upowerd
kayon-pt 1247 0.0 0.0 292436 7220 ? Ssl 16:33 0:00 /usr/lib/gvfs/gvfsd-fuse /run/user/1000/gvfs -f -o big_writes
kayon-pt 1252 0.0 0.0 416112 5452 ? Sl 16:33 0:00 /usr/lib/gvfs/gvfsd-fuse /run/user/1000/gvfs -f -o big_writes
kayon-pt 1267 0.0 0.1 415248 16080 ? Ssl 16:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/notifyd/xfce4-notifyd
kayon-pt 1272 0.0 0.4 375944 33172 ? Sl 16:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libwhiskermenu.so 1 10485785 wh
kayon-pt 1282 0.0 0.1 177136 14272 ? S 16:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-1.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libstray.so 4 10485786 svstr
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
kayon-p+ 1461 0.0 0.0 276340 4996 7 Ssl 16:33 0:00 /usr/lib/gvfs/gvfs-mtp-volume-monitor
kayon-p+ 1465 0.0 0.0 289260 6752 7 Ssl 16:33 0:00 /usr/lib/gvfs/gvfs-gphoto2-volume-monitor
kayon-p+ 1484 0.0 0.0 368444 7012 7 Sl 16:33 0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.21 /org/gtk/gvfs/exec_spaw/0
kayon-p+ 1494 0.0 0.0 204836 4844 7 Ssl 16:33 0:00 /usr/lib/gvfs/gvfsd-metadata
kayon-p+ 2063 0.0 0.0 82724 6988 7 Ss 16:33 0:00 /usr/lib/bluetooth/obexd
root 2083 0.0 0.1 374160 13912 7 Ssl 16:33 0:00 /usr/lib/packagekit/packagekitd
root 4577 0.0 0.0 0 0 7 I< 16:34 0:00 [xfsalloc]
root 4583 0.0 0.0 0 0 7 I< 16:34 0:00 [xfs_mru_cache]
root 4589 0.0 0.0 0 0 7 S 16:34 0:00 [jfsIO]
root 4590 0.0 0.0 0 0 7 S 16:34 0:00 [jfsCommit]
root 4591 0.0 0.0 0 0 7 S 16:34 0:00 [jfsCommit]
root 4592 0.0 0.0 0 0 7 S 16:34 0:00 [jfsCommit]
root 4593 0.0 0.0 0 0 7 S 16:34 0:00 [jfsCommit]
root 4594 0.0 0.0 0 0 7 S 16:34 0:00 [jfsSync]
kayon-p+ 4734 0.7 0.5 591652 44912 7 Sl 16:34 0:08 /usr/bin/xfce4-terminal
kayon-p+ 4750 0.0 0.0 30032 5084 pts/1 Ss 16:34 0:00 bash
root 6277 0.0 0.0 73424 4468 pts/1 S 16:37 0:00 sudo su
root 6278 0.0 0.0 72712 3936 pts/1 S 16:37 0:00 su
root 6279 0.0 0.0 30084 5056 pts/1 S 16:37 0:00 bash
root 6293 0.0 0.0 0 0 7 I 16:38 0:00 [kworker/u8:0-ev]
root 6526 1.1 0.0 0 0 7 I 16:52 0:00 [kworker/u8:1-ev]
root 6531 0.0 0.0 47236 3756 pts/1 R+ 16:53 0:00 ps -aux
root@kayon-pc26:/home/kayon-pc26# 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)
00:1d.0 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (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@kayon-pc26:/home/kayon-pc26# free
              total        used        free      shared  buff/cache   available
Mem:           8103664       410600       6933600         7188       759464       7441100
Swap:          2097148           0       2097148
root@kayon-pc26:/home/kayon-pc26#
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
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@kayon-pc26:/home/kayon-pc26# free
              total        used        free      shared  buff/cache   available
Mem:           8103664       410600       6933600         7188       759464       7441100
Swap:          2097148           0       2097148
root@kayon-pc26:/home/kayon-pc26# free
              total        used        free      shared  buff/cache   available
Mem:           8103664       427752       6916024         8076       765088       7422956
Swap:          2097148           0       2097148
root@kayon-pc26:/home/kayon-pc26# cat /proc/cpuinfo
bash: cat /proc/cpuinfo: No such file or directory
root@kayon-pc26:/home/kayon-pc26# 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        : 997.931
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
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_dead
               : line_timer aes xsave avx f16c rdrand lahf_lm abm cpubid fault_eb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmni flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 er
               : ms invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lld
bugs           : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapsgs
bogomips       : 6505.02
clflush size   : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor       : 1
vendor_id      : GenuineIntel
```



```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
ms invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6585.02
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 : 997.806
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_dead
line_timer aes xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmxi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 er
ms invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6585.02
clflush_size : 64
cache_alignment : 64
address_sizes : 39 bits physical, 48 bits virtual
power management:

root@kayon-pc26:/home/kayon-pc26# finger root
Login: root Name: root
Directory: /root Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayon-pc26:/home/kayon-pc26# reboot
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help
kayon-pc26@kayon-pc26:~$ sudo su
[sudo] password for kayon-pc26:
root@kayon-pc26:/home/kayon-pc26# uname -a
Linux kayon-pc26 5.0.0-31-generic #33-18.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayon-pc26:/home/kayon-pc26#
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help

kayon-pc26@kayon-pc26:~$ sudo su
[sudo] password for kayon-pc26:
root@kayon-pc26: /home/kayon-pc26# ls
Desktop Downloads Music Public Videos
Documents 'Modul 5 Prak 50' Pictures Templates
root@kayon-pc26: /home/kayon-pc26# ls -l
Desktop
Documents
Downloads
'Modul 5 Prak 50'
Music
Pictures
Public
Templates
Videos
root@kayon-pc26: /home/kayon-pc26# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayon-pc26: /home/kayon-pc26# whatis ls
ls (1) - list directory contents
root@kayon-pc26: /home/kayon-pc26# whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
root@kayon-pc26: /home/kayon-pc26# mkdir informatika
root@kayon-pc26: /home/kayon-pc26# rmdir informatika
root@kayon-pc26: /home/kayon-pc26# touch rpl.txt
root@kayon-pc26: /home/kayon-pc26# rm rpl.txt
root@kayon-pc26: /home/kayon-pc26# which mkdir
/bin/mkdir
root@kayon-pc26: /home/kayon-pc26# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayon-pc26: /home/kayon-pc26# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4009328         0   4009328   0% /dev
tmpfs           810368       1348    809020   1% /run
/dev/sda3       274052888  9715116  250346464   4% /
tmpfs          4051824      25252   4026572   1% /dev/shm
tmpfs           5120         4        5116   1% /run/lock
tmpfs          4051824         0   4051824   0% /sys/fs/cgroup
tmpfs           810364       16    810348   1% /run/user/1000
root@kayon-pc26: /home/kayon-pc26# du
4      ./Desktop
4      ./Templates
44     ./gnome2/gtksourceview-1.0/language-specs
48     ./gnome2/gtksourceview-1.0
52     ./gnome2
```

```
Terminal - root@kayon-pc26: /home/kayon-pc26
File Edit View Terminal Tabs Help

28  ./config/libreoffice/4/user/pack/database
16  ./config/libreoffice/4/user/pack/basic/Standard
28  ./config/libreoffice/4/user/pack/basic
12  ./config/libreoffice/4/user/pack/config
8   ./config/libreoffice/4/user/pack/autotext
8   ./config/libreoffice/4/user/pack
1016 ./config/libreoffice/4/user/database/biblio
1024 ./config/libreoffice/4/user/database
8   ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.help.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.bundle.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.sfw.PackageRegistryBackend
8   ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.configuration.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.script.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.executable.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.component.PackageRegistryBackend
40  ./config/libreoffice/4/user/extensions/bundled/registry
48  ./config/libreoffice/4/user/extensions/bundled
4   ./config/libreoffice/4/user/extensions/tmp/extensions
8   ./config/libreoffice/4/user/extensions/tmp/registry/com.sun.star.comp.deployment.help.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/tmp/registry/com.sun.star.comp.deployment.bundle.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/tmp/registry/com.sun.star.comp.deployment.sfw.PackageRegistryBackend
8   ./config/libreoffice/4/user/extensions/tmp/registry/com.sun.star.comp.deployment.configuration.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/tmp/registry/com.sun.star.comp.deployment.script.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/tmp/registry/com.sun.star.comp.deployment.executable.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/tmp/registry/com.sun.star.comp.deployment.component.PackageRegistryBackend
40  ./config/libreoffice/4/user/extensions/tmp/registry
48  ./config/libreoffice/4/user/extensions/tmp
8   ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.help.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.bundle.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.sfw.PackageRegistryBackend
8   ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.configuration.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.script.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.executable.PackageRegistryBackend
4   ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.component.PackageRegistryBackend
40  ./config/libreoffice/4/user/extensions/shared
152 ./config/libreoffice/4/user/extensions
16  ./config/libreoffice/4/user/basic/Standard
28  ./config/libreoffice/4/user/basic
4   ./config/libreoffice/4/user/autocorr
4   ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/toolbar
4   ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/menubar
4   ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/popupmenu
4   ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/statusbar
4   ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/images/Bitmaps
8   ./config/libreoffice/4/user/config/soffice.cfg/modules/scalc/images
```

