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PRAKTIKUM SISTEM OPERSI MODUL 5 KELAS C LATIHAN

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Terminal - root@kayon-pc3: /home/kayon-pc3
File Edit View Terminal Tabs Help
root@kayon-pc3:/home/kayon-pc3# uptime
16:58:26 up 25 min, 1 user, load average: 0,44, 0,45, 0,66
root@kayon-pc3:/home/kayon-pc3# whoami
root
root@kayon-pc3:/home/kayon-pc3# who
kayon-pc3 tty7      2019-10-09 23:34 (:0)
root@kayon-pc3:/home/kayon-pc3# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc3:/home/kayon-pc3# last
kayon-pc tty7      :0      Wed Oct 9 23:34   gone - no logout
reboot system boot 4.18.0-22-generi Wed Oct 9 23:33   still running
kayon-pc tty7      :0      Tue Oct 8 16:15 - 17:41 (01:25)
reboot system boot 4.18.0-22-generi Tue Oct 8 16:15 - 17:41 (01:26)
kayon-pc tty7      :0      Tue Oct 8 15:15 - 15:35 (00:19)
reboot system boot 4.18.0-22-generi Tue Oct 8 15:15 - 15:35 (00:20)
kayon-pc tty7      :0      Tue Oct 8 15:06 - 15:10 (00:04)
reboot system boot 4.18.0-22-generi Tue Oct 8 15:05 - 15:14 (00:08)
kayon-pc tty7      :0      Tue Oct 8 14:55 - 15:05 (00:09)
reboot system boot 4.18.0-22-generi Tue Oct 8 14:55 - 15:05 (00:09)

wtmp begins Tue Oct 8 14:48:12 2019
root@kayon-pc3:/home/kayon-pc3# finger
Login      Name      Tty      Idle Login Time   Office   Office Phone
kayon-pc3 kayon-pc3 tty7      Oct 9 23:34 (:0)
root@kayon-pc3:/home/kayon-pc3# w
16:58:35 up 25 min, 1 user, load average: 0,45, 0,46, 0,66
USER      TTY      FROM      LOGIN@   IDLE   JCPU   PCPU   WHAT
kayon-pc tty7      :0      23:34    7      37.19s  0.01s  /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayon-pc3:/home/kayon-pc3#
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3
File Edit View Terminal Tabs Help
top - 17:01:20 up 28 min, 1 user, load average: 0.11, 0.31, 0.57
Tasks: 208 total, 1 running, 154 sleeping, 0 stopped, 0 zombie
%Cpu(s): 5.5 us, 0.6 sy, 0.0 ni, 93.6 id, 0.0 wa, 0.0 hi, 0.3 si, 0.0 st
KiB Mem : 8106416 total, 2841520 free, 1285580 used, 3979316 buff/cache
KiB Swap: 947080 total, 947080 free, 0 used, 6418104 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR     S  %CPU  %MEM     TIME+ COMMAND
17994 kayon-p+  20   0 2785252 257072 127656 S   10.3   3.2   1:34.00 Web Content
 877 root        20   0 383488 78604 56444 S    8.0   1.0   0:39.13 Xorg
10826 kayon-p+  20   0 385628 28024 22344 S    2.7   0.3   0:00.08 xfce4-screensho
 8024 kayon-p+  20   0 588264 41260 30528 S    2.0   0.5   0:04.39 xfce4-terminal
 6237 kayon-p+  20   0 3178992 295456 145196 S    1.0   3.6   0:49.43 firefox
1713 kayon-p+  20   0 403240 30264 23232 S    0.3   0.4   0:02.63 xfwm4
1717 kayon-p+  20   0 420260 30540 23860 S    0.3   0.4   0:01.28 xfce4-panel
 9310 kayon-p+  20   0 2718852 216856 125976 S    0.3   2.7   0:12.76 Web Content
10825 root        20   0 51780 4176 3416 R    0.3   0.1   0:00.04 top
   1 root        20   0 225516 9560 6980 S    0.0   0.1   0:03.20 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   0:00.14 ksoftirqd/0
  10 root        20   0 0 0 0 I    0.0   0.0   0:00.76 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   0:00.01 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   0:00.01 migration/1
  18 root        20   0 0 0 0 S    0.0   0.0   0:00.14 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        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   0:00.01 migration/2
  24 root        20   0 0 0 0 S    0.0   0.0   0:00.12 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   0:00.01 migration/3
  30 root        20   0 0 0 0 S    0.0   0.0   0:00.12 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
  34 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 netns
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3
File Edit View Terminal Tabs Help
root@kayon-pc3:/home/kayon-pc3# echo $SHELL
/bin/bash
root@kayon-pc3:/home/kayon-pc3# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayon-pc3:/home/kayon-pc3#
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3
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-pc3: /home/kayon-pc3
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-pc3: /home/kayon-pc3

root@kayon-pc3:/home/kayon-pc3# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc3:/home/kayon-pc3# last
kayon-pc tty7          :0                Wed Oct  9 23:34   gone - no logout
reboot system boot    4.18.0-22-generi Wed Oct  9 23:33   still running
kayon-pc tty7          :0                Tue Oct  8 16:15 - 17:41 (01:25)
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reboot system boot    4.18.0-22-generi Tue Oct  8 15:05 - 15:14 (00:08)
kayon-pc tty7          :0                Tue Oct  8 14:55 - 15:05 (00:09)
reboot system boot    4.18.0-22-generi Tue Oct  8 14:55 - 15:05 (00:09)

wtmp begins Tue Oct  8 14:48:12 2019
root@kayon-pc3:/home/kayon-pc3# 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      204800      100000  51.2M 1b FAT16
/dev/sda2          204800  409600000  409399200  195.2G 7 HPFS/NTFS/exFAT
/dev/sda3          409600000  935811071  526209071  250.9G 7 HPFS/NTFS/exFAT
/dev/sda4          935811072  976771071   40960000    19.5G 83 Linux

root@kayon-pc3:/home/kayon-pc3# users
kayon-pc3
root@kayon-pc3:/home/kayon-pc3# 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=3b34dc42-e5c5-4cb3-af44-24c40b35d2ff /
ext4 errors=remount-ro 0      1
/swapfile none swap sw 0      0
root@kayon-pc3:/home/kayon-pc3#
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3

/swapfile none swap sw 0 0
root@kayon-pc3:/home/kayon-pc3# clear

root@kayon-pc3:/home/kayon-pc3# 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 June
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

July August 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

October November December
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-pc3:/home/kayon-pc3# cal 9 1752
September 1752
Mi Se Sa Ra Ka Ju Sa
1 2 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ cal 10 2007
      Oktober 2007
Mo Se We Th Fr Sa Su
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

kayon-pc3@kayon-pc3:~$ 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

kayon-pc3@kayon-pc3:~$ pwd
/home/kayon-pc3

kayon-pc3@kayon-pc3:~$ history
1  sudo su
2  sudo apt install grub-customizer
3  sudo apt install grub-cus
4  sudo apt install grub-customizer
5  sudo su
6  labrpl
7  sudo su
8  man ls
9  man who
10 who can tell me about linux
11 fdisk -l
12 bc -l
13 lsmod
14 ps -aux
15 lspci
16 free
17 cat /proc/cpuinfo
18 finger root
19 finger
20 top
21 dmesg | more
22 uname -a
23 init 0
24 sudo su
25 ls
26 ls -l
27 ls //home
28 what ls
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ lsmod
Module                  Size  Used by
ufs                      77524  0
gmx4                    16384  0
hfsplus                 106496  0
hfs                      57344  0
minix                   32768  0
ntfs                    102400  0
msdos                   20480  0
jfs                     188416  0
xfs                     1290240  0
cpuid                   16384  0
input_leds              16384  0
joydev                  24576  0
snd_hda_codec_hdmi      49152  1
nvidia_uvm              815104  0
eeepc_wmi               16384  0
asus_wmi                20672  1 eeepc_wmi
sparse_keymap           16384  1 asus_wmi
wmi_bmof                16384  0
gpio_ich                16384  0
intel_rapl              20480  0
x86_pkg_temp_thermal    16384  0
intel_powerclamp        16384  0
coretemp                16384  0
snd_hda_codec_realtek   106496  1
kvm_intel               208896  0
snd_hda_codec_generic   73728  1 snd_hda_codec_realtek
kvm                     626688  1 kvm_intel
irqbypass               16384  1 kvm
crt10dif_pclmul         16384  0
crc32_pclmul            16384  0
ghash_clmulni_intel     16384  0
pcbc                    16384  0
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_hwdep                20480  1 snd_hda_codec
snd_pcm                 98304  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
aesni_intel             200704  0
aes_x86_64              20480  1 aesni_intel
crypto_simd              16384  1 aesni_intel
cryptd                  24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
snd_seq_midi             16384  0
snd_seq_midi_event      16384  1 snd_seq_midi
qlaue_helper             16384  1 aesni_intel
```



```
Terminal - kayon-pc3@kayon-pc3: ~  
File Edit View Terminal Tabs Help  
kayon-pc3:kayon-pc3:~$ ps -aux  
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND  
root         1  0.1  0.1 225516 9560 ?        Ss   16:33   0:03 /lib/systemd/systemd --system --deserialize 41  
root         2  0.0  0.0      0  0 ?        S    16:33   0:00 [kthreadd]  
root         3  0.0  0.0      0  0 ?        I<   16:33   0:00 [rcu_gp]  
root         4  0.0  0.0      0  0 ?        I<   16:33   0:00 [rcu_par_gp]  
root         6  0.0  0.0      0  0 ?        I<   16:33   0:00 [kworker/0:0H-kb]  
root         8  0.0  0.0      0  0 ?        I<   16:33   0:00 [mm_percpu_wq]  
root         9  0.0  0.0      0  0 ?        S    16:33   0:00 [ksoftirqd/0]  
root        10  0.0  0.0      0  0 ?        I    16:33   0:00 [rcu_sched]  
root        11  0.0  0.0      0  0 ?        I    16:33   0:00 [rcu_bh]  
root        12  0.0  0.0      0  0 ?        S    16:33   0:00 [migration/0]  
root        13  0.0  0.0      0  0 ?        S    16:33   0:00 [watchdog/0]  
root        14  0.0  0.0      0  0 ?        S    16:33   0:00 [cpuhp/0]  
root        15  0.0  0.0      0  0 ?        S    16:33   0:00 [cpuhp/1]  
root        16  0.0  0.0      0  0 ?        S    16:33   0:00 [watchdog/1]  
root        17  0.0  0.0      0  0 ?        S    16:33   0:00 [migration/1]  
root        18  0.0  0.0      0  0 ?        S    16:33   0:00 [ksoftirqd/1]  
root        20  0.0  0.0      0  0 ?        I<   16:33   0:00 [kworker/1:0H-kb]  
root        21  0.0  0.0      0  0 ?        S    16:33   0:00 [cpuhp/2]  
root        22  0.0  0.0      0  0 ?        S    16:33   0:00 [watchdog/2]  
root        23  0.0  0.0      0  0 ?        S    16:33   0:00 [migration/2]  
root        24  0.0  0.0      0  0 ?        S    16:33   0:00 [ksoftirqd/2]  
root        26  0.0  0.0      0  0 ?        I<   16:33   0:00 [kworker/2:0H-kb]  
root        27  0.0  0.0      0  0 ?        S    16:33   0:00 [cpuhp/3]  
root        28  0.0  0.0      0  0 ?        S    16:33   0:00 [watchdog/3]  
root        29  0.0  0.0      0  0 ?        S    16:33   0:00 [migration/3]  
root        30  0.0  0.0      0  0 ?        S    16:33   0:00 [ksoftirqd/3]  
root        32  0.0  0.0      0  0 ?        I<   16:33   0:00 [kworker/3:0H-kb]  
root        33  0.0  0.0      0  0 ?        S    16:33   0:00 [kdevtmpfs]  
root        34  0.0  0.0      0  0 ?        I<   16:33   0:00 [netns]  
root        35  0.0  0.0      0  0 ?        S    16:33   0:00 [rcu_tasks_kthre]  
root        36  0.0  0.0      0  0 ?        S    16:33   0:00 [kauditd]  
root        37  0.0  0.0      0  0 ?        I    16:33   0:00 [kworker/0:1-eve]  
root        40  0.0  0.0      0  0 ?        S    16:33   0:00 [khungtaskd]  
root        41  0.0  0.0      0  0 ?        S    16:33   0:00 [oom_reaper]  
root        42  0.0  0.0      0  0 ?        I<   16:33   0:00 [writeback]  
root        43  0.0  0.0      0  0 ?        S    16:33   0:00 [kcompactd0]  
root        44  0.0  0.0      0  0 ?        SN   16:33   0:00 [ksmd]  
root        45  0.0  0.0      0  0 ?        SN   16:33   0:00 [khugepaged]  
root        46  0.0  0.0      0  0 ?        I<   16:33   0:00 [crypto]  
root        47  0.0  0.0      0  0 ?        I<   16:33   0:00 [kintegrityd]  
root        48  0.0  0.0      0  0 ?        I<   16:33   0:00 [kblockd]  
root        49  0.0  0.0      0  0 ?        I    16:33   0:00 [kworker/3:1-eve]  
root        50  0.0  0.0      0  0 ?        I<   16:33   0:00 [ata_sff]  
root        51  0.0  0.0      0  0 ?        I<   16:33   0:00 [md]
```

```
Terminal - kayon-pc3@kayon-pc3: ~  
File Edit View Terminal Tabs Help  
kayon-pc3:kayon-pc3:~$ 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)  
kayon-pc3:kayon-pc3:~$ free  
              total        used        free      shared  buff/cache   available  
Mem:           8106416       1434680       2682220          100664       3988916       6267860  
Swap:           947080            0        947080  
kayon-pc3:kayon-pc3:~$ 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        : 2430.081  
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_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  
cr8  
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  
cr8
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ finger root
Login: root                Name: root
Directory: /root           Shell: /bin/bash
Never logged in.
No mail.
No Plan.
kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
kayon-pc3@kayon-pc3:~$
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ finger root
Login: root                Name: root
Directory: /root           Shell: /bin/bash
Never logged in.
No mail.
No Plan.
kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
kayon-pc3@kayon-pc3:~$
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ free
             total        used        free      shared  buff/cache   available
Mem:      8106416      1420156      2701516        93228       3984744       6289816
Swap:      947080           0         947080

kayon-pc3@kayon-pc3:~$ pstree
systemd -- ModemManager -- 2*[{ModemManager}]
        -- NetworkManager -- dhcpcd
        -- Thunar -- 2*[{Thunar}]
        -- accounts-daemon -- 2*[{accounts-daemon}]
        -- acpid
        -- avahi-daemon -- avahi-daemon
        -- cron
        -- cups-browsed -- 2*[{cups-browsed}]
        -- cupsd
        -- dbus-daemon
        -- fwupd -- 4*[{fwupd}]
        -- gnome-keyring-d -- 3*[{gnome-keyring-d}]
        -- irqbalance -- {irqbalance}
        -- 2*[kerneloops]
        -- lightdm -- Xorg -- {Xorg}
        -- lightdm -- ssh-agent
        -- lightdm -- xfce4-session -- applet.py -- {applet.py}
        -- lightdm -- blueman-applet -- 3*[{blueman-applet}]
        -- lightdm -- light-locker -- 3*[{light-locker}]
        -- lightdm -- nm-applet -- 3*[{nm-applet}]
        -- lightdm -- polkit-gnome-au -- 2*[{polkit-gnome-au}]
        -- lightdm -- update-notifier -- 3*[{update-notifier}]
        -- lightdm -- 2*[{xfce4-session}]
        -- 2*[{lightdm}]
        -- 2*[{lightdm}]
        -- lvm2metad
        -- networkd-dispatcher -- {networkd-dispatcher}
        -- nvidia-persistenced
        -- packagekitd -- 2*[{packagekitd}]
        -- polkitd -- 2*[{polkitd}]
        -- pulseaudio -- {pulseaudio}
        -- python3 -- 2*[{python3}]
        -- rsyslogd -- 3*[{rsyslogd}]
        -- rtkit-daemon -- 2*[{rtkit-daemon}]
        -- sshd
        -- systemd -- (sd-pam)
        -- systemd -- at-spi-bus-launcher -- dbus-daemon
        -- systemd -- 3*[{at-spi-bus-launcher}]
        -- systemd -- at-spi2-registrars -- 2*[{at-spi2-registrars}]
        -- systemd -- dbus-daemon
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
kayon-pc3@kayon-pc3:~$ ls -l
total 32
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Desktop
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Okt  9 17:13 Documents
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Downloads
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Music
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Pictures
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Public
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Templates
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Videos
kayon-pc3@kayon-pc3:~$ ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
kayon-pc3@kayon-pc3:~$ whatis ls
ls (1) - list directory contents
kayon-pc3@kayon-pc3:~$ whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
kayon-pc3@kayon-pc3:~$ mkdir informatika
kayon-pc3@kayon-pc3:~$ rmdir informatika
kayon-pc3@kayon-pc3:~$ touch rpl.txt
kayon-pc3@kayon-pc3:~$ rm rpl.txt
kayon-pc3@kayon-pc3:~$ which mkdir
/bin/mkdir
kayon-pc3@kayon-pc3:~$ whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
kayon-pc3@kayon-pc3:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev             4012956        0   4012956   0% /dev
tmpfs            810644       1372    809272   1% /run
/dev/sda4       20027216  9157980  9826852   49% /
tmpfs           4053208    67896   3985312   2% /dev/shm
tmpfs            5120         4        5116   1% /run/lock
tmpfs           4053208        0   4053208   0% /sys/fs/cgroup
tmpfs           810640       32    810608   1% /run/user/1000
kayon-pc3@kayon-pc3:~$ du
4  ./Desktop
4  ./Templates
616 ./thumbnails/normal
620 ./thumbnails
4  ./gnupg/private-keys-v1.d
8  ./gnupg
4  ./Pictures
```



```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ finger root
Login: root                Name: root
Directory: /root           Shell: /bin/bash
Never logged in.
No mail.
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kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
kayon-pc3@kayon-pc3:~$
```

