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File Edit View Terminal Tabs Help
kayen-pc28@kayen-pc28:~$ sudo su
[sudo] password for kayen-pc28:
root@kayen-pc28:/home/kayen-pc28# echo hello world
hello world
root@kayen-pc28:/home/kayen-pc28# date
Sun Oct 18 07:26:10 KST 2015
root@kayen-pc28:/home/kayen-pc28# hostname
kayen-pc28
root@kayen-pc28:/home/kayen-pc28# arch
x86_64
root@kayen-pc28:/home/kayen-pc28# uname -a
Linux kayen-pc28 3.0.0-31-generic #33-18.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
root@kayen-pc28:/home/kayen-pc28# dmesg | more
[    0.000000] microcode: microcode updated early to revision 0a27, data = 2019-
02-26
[    0.000000] Linux version 3.0.0-31-generic (build@pud1-m084-046) (gcc vers
ion 7.4.0 (Ubuntu 7.4.0-13.0-31.18.04.1-Ubuntu SMP Tue Oct 1 10:2
0:39 UTC 2015) (Ubuntu 3.0.0-31.18.04.1-generic 3.0.21)
[    0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-3.0.0-31-generic root=UUID
=21794239-G084-471C-0323-051a6d094bd 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 reg
isters'
[    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 size[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 0x0000000000000000-0x00000000000007ff] usable
[    0.000000] BIOS-e820: [mem 0x0000000000000800-0x0000000000000fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000001000-0x0000000000001fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000002000-0x0000000000002fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000003000-0x0000000000003fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000004000-0x0000000000004fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000005000-0x0000000000005fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000006000-0x0000000000006fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000007000-0x0000000000007fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000008000-0x0000000000008fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000009000-0x0000000000009fff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000000a000-0x000000000000afff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000000b000-0x000000000000bfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000000c000-0x000000000000cfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000000d000-0x000000000000dfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000000e000-0x000000000000efff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000000f000-0x000000000000ffff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000010000-0x0000000000010fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000011000-0x0000000000011fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000012000-0x0000000000012fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000013000-0x0000000000013fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000014000-0x0000000000014fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000015000-0x0000000000015fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000016000-0x0000000000016fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000017000-0x0000000000017fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000018000-0x0000000000018fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000019000-0x0000000000019fff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000001a000-0x000000000001afff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000001b000-0x000000000001bfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000001c000-0x000000000001cfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000001d000-0x000000000001dfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000001e000-0x000000000001efff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000001f000-0x000000000001ffff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000020000-0x0000000000020fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000021000-0x0000000000021fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000022000-0x0000000000022fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000023000-0x0000000000023fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000024000-0x0000000000024fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000025000-0x0000000000025fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000026000-0x0000000000026fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000027000-0x0000000000027fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000028000-0x0000000000028fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000029000-0x0000000000029fff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000002a000-0x000000000002afff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000002b000-0x000000000002bfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000002c000-0x000000000002cfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000002d000-0x000000000002dfff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000002e000-0x000000000002efff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000002f000-0x000000000002ffff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000030000-0x0000000000030fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000031000-0x0000000000031fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000032000-0x0000000000032fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000033000-0x0000000000033fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000034000-0x0000000000034fff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000035000-0x0000000000035fff] reserved
[    0.000000
```

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File Edit View Terminal Tabs Help
[ 0.000000] x86/fpu: enabled xstate features 0x7, context size is 832 bytes,
using 'standard' format.
[ 0.000000] HIGS-provided physical RAM map:
[ 0.000000] HIGS-e820: [mem 0x0000000000000000-0x0000000000000007] usable
[ 0.000000] HIGS-e820: [mem 0x0000000000000008-0x0000000000000fff] reserved
[ 0.000000] HIGS-e820: [mem 0x0000000000000000-0x0000000000000fff] reserved
root@kayon-pc28:/home/kayon-pc28# uptime
07:31:51 up 10 min, 1 user, load average: 0.44, 0.30, 0.20
root@kayon-pc28:/home/kayon-pc28# whoami
root
root@kayon-pc28:/home/kayon-pc28# who
kayon-pc28 tty7      2018-10-10 07:21 (10)
root@kayon-pc28:/home/kayon-pc28# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc28:/home/kayon-pc28# last
kayon-pc tty7      10          Thu Oct 10 07:21      gone - no logout
reboot  system boot  5.0.9-21-generic Thu Oct 10 07:21      still running
kayon-pc tty7      10          Wed Oct 9 22:34      17:34 (-5:59)
reboot  system boot  5.0.9-21-generic Wed Oct 9 22:34      17:34 (-5:59)
kayon-pc tty7      10          Tue Oct 8 16:15      17:29 (01:13)
reboot  system boot  5.0.9-21-generic Tue Oct 8 16:15      17:29 (01:14)
kayon-pc tty7      10          Tue Oct 8 14:57      15:34 (00:37)
reboot  system boot  5.0.9-21-generic Tue Oct 8 14:54      15:34 (00:38)

wtmp begins Tue Oct 8 14:53:11 2018
root@kayon-pc28:/home/kayon-pc28# finger
Login      Name      Tty      Idle Login Time   Office   Office Phone
kayon-pc28 kayon-pc28  tty7     11 Oct 10 07:21 (10)
root@kayon-pc28:/home/kayon-pc28# w
07:32:32 up 11 min, 1 user, load average: 0.22, 0.24, 0.19
USER      PID#     PR#B     LOG#B#    ID#S     CPU    PCPU    W#AT
kayon-pc  tty7      0       07:21    11:08    14.34s  0.01s  /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayon-pc28:/home/kayon-pc28# top
top - 07:33:04 up 11 min, 1 user, load average: 0.13, 0.23, 0.10
Tasks: 187 total, 1 running, 140 sleeping, 0 stopped, 0 zombie
%Mem#: 0.0 us, 0.0 sy, 0.0 ni, 96.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 218304K total, 48880K free, 78062K used, 126650K buff/cache
MiB Swap: 547000 total, 547000 free, 0 used, 595722K avail Mem

#PID#USER      #S   NI   VIRT   RES   SHR   S   #CPU   MEM%   MPID#
1872 root        Ss    0    200996 38240  67804  5  2.7  1.1  0:15.17 xorg
1923 kayon-pc  Ss    0    495628 37668 29140  5  2.7  0.5  0:03.12 panel-1-whisker
2750 kayon-pc  Ss    0    503432 33952 25936  5  1.7  0.5  0:01.76 xfce4-terminal
1810 root        Ss    0    0       0      0      0  0.3  0.0  0:00.70 sv_gnome
1845 kayon-pc  Ss    0    191012 21600 17636  5  0.3  0.3  0:01.17 xfbid

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Terminal - root@kayon-pc28: /home/kayon-pc28

Tasks: 127 total, 1 running, 140 sleeping, 0 stopped, 0 zombie
Mem(s): 0.0 in, 0.0 sy, 0.0 hi, 98.7 in, 0.0 me, 0.0 hi, 0.0 si, 0.0 st
Mem Mem: 8183648 total, 6888856 free, 768624 used, 1246568 buff/cache
Mem Mem: 947000 total, 947000 free, 0 used, 6967224 avail Mem

PID USER PPID ST RTS S SHW S CPU SHM TIME COMMAND
3072 root 20 0 000000 00100 07004 S 2.7 1.1 0:15.17 karg
3823 kayon-pc 20 0 000000 37000 29100 S 2.7 0.5 0:03.12 panel-1-whisker
2700 kayon-pc 20 0 000000 39000 29100 S 1.7 0.5 0:01.74 efica-terminal
3810 root 20 0 0 0 0 0.3 0.0 0:00.70 mc-gnome
3843 kayon-pc 20 0 000000 21000 17000 S 0.3 0.3 0:01.57 xfsck
3120 kayon-pc 20 0 000000 29500 150124 S 0.3 3.6 0:07.70 firefox
3417 root 20 0 31672 4100 3400 S 0.3 0.1 0:00.00 top
1 root 20 0 225490 9200 8822 S 0.0 1.1 0:01.37 systemd
2 root 20 0 0 0 0 0.5 0.0 0:00.00 kthreadd
3 root 0 -20 0 0 0 0.1 0.0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 0.1 0.0 0:00.00 rcu_par_gp
6 root 0 -20 0 0 0 0.1 0.0 0:00.00 kworker/0:0-usb
8 root 0 -20 0 0 0 0.1 0.0 0:00.00 mcpdcpu_wq
9 root 20 0 0 0 0 0.5 0.0 0:00.00 ksoftirqd/9
10 root 20 0 0 0 0 0.1 0.0 0:00.20 rcu_sched
11 root rt 0 0 0 0.5 0.0 0:00.00 migration/0
12 root -SI 0 0 0 0.5 0.0 0:00.00 lla_inject/0
13 root 20 0 0 0 0.1 0.0 0:00.05 kworker/0:1-mmc
14 root 20 0 0 0 0.1 0.0 0:00.00 cgroup/0
15 root 20 0 0 0 0.5 0.0 0:00.00 cgroup/1
16 root -SI 0 0 0 0.5 0.0 0:00.00 lla_inject/1
17 root rt 0 0 0 0.5 0.0 0:00.00 migration/1
18 root 20 0 0 0 0.1 0.0 0:00.00 ksoftirqd/1
20 root 0 -20 0 0 0.1 0.0 0:00.00 kworker/1:0-usb
21 root 20 0 0 0 0.5 0.0 0:00.00 cgroup/2
22 root -SI 0 0 0 0.5 0.0 0:00.00 lla_inject/2
23 root rt 0 0 0 0.5 0.0 0:00.00 migration/2
24 root 20 0 0 0 0.1 0.0 0:00.00 ksoftirqd/2
25 root 0 -20 0 0 0.1 0.0 0:00.00 kworker/2:0-usb
27 root 20 0 0 0 0.5 0.0 0:00.00 cgroup/3
28 root -SI 0 0 0 0.5 0.0 0:00.00 lla_inject/3
29 root rt 0 0 0 0.5 0.0 0:00.00 migration/3
30 root 20 0 0 0 0.5 0.0 0:00.00 ksoftirqd/3
32 root 0 -20 0 0 0.1 0.0 0:00.00 kworker/3:0-usb
33 root 20 0 0 0 0.5 0.0 0:00.00 kdevtmpfs
34 root 0 -20 0 0 0.1 0.0 0:00.00 netns
35 root 20 0 0 0 0.5 0.0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0.5 0.0 0:00.00 kauditd_

root@kayon-pc28: /home/kayon-pc28
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```
root@kayon-pc28: /home/kayon-pc28# echo $SHELL
/bin/bash
root@kayon-pc28: /home/kayon-pc28# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
```

```
Terminal - root@kayon-pc28: /home/kayon-pc28

File Edit View Terminal Tabs Help

print ? Instead of non-graphic characters

--show-control-chars
show non-graphic 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

--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 (-a), 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 '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

Manual page ls(1) line 219/207 77% (press h for help or q to quit)
```

```
Terminal - root@kayon-pc28:/home/kayon-pc28

File Edit View Terminal Tabs Help

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

--sort=WORD
sort by WORD instead of name: (-Q), 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

Manual page ls(1) line 219/207 77% (press h for help or q to quit)
```

```
Terminal - root@kayon-pc28:/home/kayon-pc28

File Edit View Terminal Tabs Help

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 '\a' 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 terminal. The LS_COLORS environment variable can change the settings. Use the dircolors command to set it.

Exit status:
0      if OK,
1      if minor problems (e.g., cannot access subdirectory),
2      if serious trouble (e.g., cannot access command-line argument).

AUTHOR
Written by Richard M. Stallman and David Mackenzie.

REPORTING BUGS
GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
Report translation bugs to <http://translationproject.org/team/>

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SEE ALSO
Full documentation at: <http://www.gnu.org/software/coreutils/ls>
or available locally via: info '(coreutils) ls invocation'

GNU coreutils 8.28                                January 2018                                LS(1)
Manual page ls(1) line 204/207 (END) (press h for help or q to quit)
```



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Terminal - root@kayon-pc28:/home/kayon-pc28

File Edit View Terminal Tabs Help

--F, --runlevel
    print current runlevel

--s, --short
    print only name, line, and time (default)

--t, --time
    print last system clock change

--T, --msg
    add user's message status as +, - or ?

--u, --users
    list users logged in

--message
    same as -T

--writeable
    same as -T

--help
    display this help and exit

--version
    output version information and exit

If FILE is not specified, use /var/run/utmp, /var/log/utmp as FILE is common. If ARG1 ARG2 given, - pressed: 'm i' or 'won 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 translation bugs to <http://translationproject.org/team/>

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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 8.25
Manual page who(1) line 40/83 (END) (press h for help or q to quit)
January 2018 WHO(1)
```

```
root@kayon-pc28:/home/kayon-pc28# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc28:/home/kayon-pc28# last
kayon-pc tty7 :0 Thu Oct 10 07:21 gone - no logout
reboot system boot 5.0.0-31-generic Thu Oct 10 07:21 still running
kayon-pc tty7 :0 Wed Oct 9 23:34 - 17:34 (-5:59)
reboot system boot 5.0.0-31-generic Wed Oct 9 23:34 - 17:34 (-5:59)
kayon-pc tty7 :0 Tue Oct 8 16:15 - 17:29 (01:13)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:15 - 17:29 (01:14)
kayon-pc tty7 :0 Tue Oct 8 14:57 - 15:34 (00:37)
reboot system boot 5.0.0-31-generic Tue Oct 8 14:56 - 15:34 (00:38)

wtmp begins Tue Oct 8 14:53:11 2019
root@kayon-pc28:/home/kayon-pc28#
```

```
Terminal - root@kayon-pc28:/home/kayon-pc28

File Edit View Terminal Tabs Help

root@kayon-pc28:/home/kayon-pc28# cal 9 1752
September 1752
Su Mo Tu We Th Fr 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-pc28:/home/kayon-pc28# cal 10 2007
October 2007
Su Mo Tu We Th Fr 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-pc28:/home/kayon-pc28# bc -l
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type 'warranty'.
quit
root@kayon-pc28:/home/kayon-pc28# echo 5+4 | bc -l
9
root@kayon-pc28:/home/kayon-pc28#
```

```
% Terminal - root@kayen-pc28:/home/kayen-pc28
File Edit View Terminal Tabs Help
reboot system boot 5.8.0-31-generic Tue Oct 8 14:56 - 15:34 (00:38)

wtmp begin Tue Oct 8 14:53:11 2019
root@kayen-pc28:/home/kayen-pc28# clear

root@kayen-pc28:/home/kayen-pc28# fdisk -l
Disk /dev/sda: 460,8 GiB, 500107862016 bytes, 976773184 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: 0x30e575a7

Device Boot Start End Sectors Size Id Type
/dev/sda1 * 2048 204847 204800 100M 7 HPFS/NTFS/exFAT
/dev/sda2 206540 41754047 41751982 199.1G 7 HPFS/NTFS/exFAT
/dev/sda3 419432448 915411071 516378624 246.2G 7 HPFS/NTFS/exFAT
/dev/sda4 915411072 976773183 613620812 292.1G 83 Linux

root@kayen-pc28:/home/kayen-pc28# users
kayen-pc28
root@kayen-pc28:/home/kayen-pc28# 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/sda1 during installation
UUID=2159d289-d284-471c-b525-b54aebd99abd / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayen-pc28:/home/kayen-pc28# cal 2086
2086
January February March
Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
1 1 2 3 4 5 1 2 3 4
2 3 4 5 6 7 8 4 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 Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
1 1 2 3 4 5 6 1 2 3 4
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 Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
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 16 17 18 19 20 21 22
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 Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
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 16 17 18 19 20 21 22
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
```

```
% Terminal - root@kayen-pc28:/home/kayen-pc28
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/sda1 during installation
UUID=2159d289-d284-471c-b525-b54aebd99abd / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayen-pc28:/home/kayen-pc28# cal 2086
2086
January February March
Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
1 1 2 3 4 5 1 2 3 4
2 3 4 5 6 7 8 4 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 Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
1 1 2 3 4 5 6 1 2 3 4
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 Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
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 16 17 18 19 20 21 22
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 Ka Ju Su Mi Se Sa Ka Ju Su Mi Se Sa Ka Ju Su
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 16 17 18 19 20 21 22
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
```



```
Terminal - root@kayen-pc28: /home/kayen-pc28
72 clear
73 apt install ubiquity-slide
74 clear
75 apt install ubiquity-slideshows-subverts
76 apt install ubiquity-frontend-gtk
77 rm -rf /etc/issue
78 rm -rf /etc/lab-release
79 ls
80 cd ..
81 cd PingpongBuilder/
82 ls
83 cd IOSTMP/
84 ls
85 cd ..
86 ls
87 scp Kayen_8.1_BUT22.iso hrianadi124@192.168.24.2:/home/hrianadi124
88 hrianadi124
89 clear
90 apt update
91 apt upgrade
92 clear
93 add-apt-repository ppa:nmx/ppa
94 apt install --reinstall python3
95 ls
96 clear
97 add-apt-repository ppa:nmx/ppa
98 apt install nmx-irc-theme
99 clear
100 apt install nmx-irc-theme-*
101 clear
102 apt install ubiquity-slideshows-subverts
103 apt install --reinstall ubiquity-slideshows-subverts
104 apt autoremove
105 apt autoclean
106 clear
107 clear
108 apt update
109 clear
110 apt update
111 apt upgrade
112 clear
113 clear
114 rm -rf /etc/apt/sources.list
115 clear
116 apt update
```

```
Terminal - root@kayen-pc28: /home/kayen-pc28
72 clear
73 apt install ubiquity-slide
74 clear
75 apt install ubiquity-slideshows-subverts
76 apt install ubiquity-frontend-gtk
77 rm -rf /etc/issue
78 rm -rf /etc/lab-release
79 ls
80 cd ..
81 cd PingpongBuilder/
82 ls
83 cd IOSTMP/
84 ls
85 cd ..
86 ls
87 scp Kayen_8.1_BUT22.iso hrianadi124@192.168.24.2:/home/hrianadi124
88 hrianadi124
89 clear
90 apt update
91 apt upgrade
92 clear
93 add-apt-repository ppa:nmx/ppa
94 apt install --reinstall python3
95 ls
96 clear
97 add-apt-repository ppa:nmx/ppa
98 apt install nmx-irc-theme
99 clear
100 apt install nmx-irc-theme-*
101 clear
102 apt install ubiquity-slideshows-subverts
103 apt install --reinstall ubiquity-slideshows-subverts
104 apt autoremove
105 apt autoclean
106 clear
107 clear
108 apt update
109 clear
110 apt update
111 apt upgrade
112 clear
113 clear
114 rm -rf /etc/apt/sources.list
115 clear
116 apt update
```



```
% Terminal - root@kayen-pc28: /home/kayen-pc28
File Edit View Terminal Tabs Help
027 date
028 exit
029 echo hello world
030 date
031 hostname
032 arch
033 uname -a
034 dmesg | more
035 uptime
036 whoami
037 who
038 id
039 last
040 finger
041 w
042 top
043 echo $SHELL
044 echo $(cat /dev/urandom | fold -n 100 | tr -dc 'a-z0-9' | fold -n 100 | xargs echo)
045 man ls
046 man ls
047 man who
048 who can tell me about linux
049 last
050 clear
051 fdisk -l
052 users
053 cat /etc/passwd
054 cal 2009
055 cal 9 1952
056 cal 10 2007
057 bc -l
058 echo 5+4 | bc -l
059 echo 5+4 | bc -l
060 yes please
061 cal 9 1952
062 cal 10 2007
063 clear
064 cal 9 1952
065 cal 10 2007
066 bc -l
067 echo 5+4 | bc -l
068 yes please
069 pwd
070 history
root@kayen-pc28: /home/kayen-pc28
```

```
% Terminal - root@kayen-pc28: /home/kayen-pc28
File Edit View Terminal Tabs Help
001 20072 2 4000 001 001 001
002 40152 1 4000 001
root@kayen-pc28: /home/kayen-pc28 ps -aux
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND
root 1 0.0 0.1 22540 8200 ? S 07:21 0:01 sshd: root [sshd]
root 2 0.0 0.0 0 0 ? S 07:21 0:00 [kthreadd]
root 3 0.0 0.0 0 0 ? I< 07:21 0:00 [rcu_gp]
root 4 0.0 0.0 0 0 ? I< 07:21 0:00 [rcu_per_gp]
root 6 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/0:00-4h]
root 8 0.0 0.0 0 0 ? I< 07:21 0:00 [m_purpose_wq]
root 9 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/0]
root 10 0.0 0.0 0 0 ? I 07:21 0:00 [rcu_sched]
root 11 0.0 0.0 0 0 ? S 07:21 0:00 [migration/0]
root 12 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/0]
root 13 0.0 0.0 0 0 ? I 07:21 0:00 [kworker/0:1-00h]
root 14 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/0]
root 15 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/1]
root 16 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/1]
root 17 0.0 0.0 0 0 ? S 07:21 0:00 [migration/1]
root 18 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/1]
root 20 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/1:00-4h]
root 21 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/2]
root 22 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/2]
root 23 0.0 0.0 0 0 ? S 07:21 0:00 [migration/2]
root 24 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/2]
root 26 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/2:00-4h]
root 27 0.0 0.0 0 0 ? S 07:21 0:00 [cpuhp/3]
root 28 0.0 0.0 0 0 ? S 07:21 0:00 [idle_inject/3]
root 29 0.0 0.0 0 0 ? S 07:21 0:00 [migration/3]
root 30 0.0 0.0 0 0 ? S 07:21 0:00 [ksoftirqd/3]
root 32 0.0 0.0 0 0 ? I< 07:21 0:00 [kworker/3:00-4h]
root 33 0.0 0.0 0 0 ? S 07:21 0:00 [kworker/3]
root 34 0.0 0.0 0 0 ? I< 07:21 0:00 [netns]
root 35 0.0 0.0 0 0 ? S 07:21 0:00 [rcu_tasks_kthre]
root 36 0.0 0.0 0 0 ? S 07:21 0:00 [kworker/3]
root 37 0.0 0.0 0 0 ? S 07:21 0:00 [kworker/3]
root 38 0.0 0.0 0 0 ? S 07:21 0:00 [mm_reaper]
root 39 0.0 0.0 0 0 ? I< 07:21 0:00 [writeback]
root 40 0.0 0.0 0 0 ? S 07:21 0:00 [kcompactd0]
root 41 0.0 0.0 0 0 ? S 07:21 0:00 [kswapd]
root 42 0.0 0.0 0 0 ? S 07:21 0:00 [kswapd0]
root 43 0.0 0.0 0 0 ? I< 07:21 0:00 [crypto]
root 44 0.0 0.0 0 0 ? I< 07:21 0:00 [kintegrityd]
root 45 0.0 0.0 0 0 ? I< 07:21 0:00 [kblockd]
root 46 0.0 0.0 0 0 ? I< 07:21 0:00 [tpe_dev_wq]
```

```
Terminal - root@kayon-pc28: /home/kayon-pc28

kayon-pc 2743 0.0 0.0 30832 4736 pts/0  Ss  07:23  0:00 bash
root 2772 0.0 0.0 73424 4476 pts/0  S  07:25  0:00 sudo su
root 2773 0.0 0.0 72732 3900 pts/0  S  07:25  0:00 su
root 2774 0.0 0.0 30084 5088 pts/0  S  07:25  0:00 bash
root 2876 0.0 0.1 148152 8212 ?  Ss  07:26  0:00 /usr/sbin/cupsd -l
root 2880 0.0 0.1 383520 11040 ?  Ssl  07:26  0:00 /usr/sbin/cups-browsed
root 2883 0.0 0.0 0 0 ?  I  07:26  0:00 [worker/0-0-cgr]
kayon-pc 2935 0.0 0.0 144016 8216 ?  Sl  07:27  0:00 /usr/lib/office/program/soffice --writer
root 2962 2.7 3.6 1244160 240436 ?  Sl  07:27  0:17 /usr/lib/office/program/soffice.bin --writer --splash-pipe=5
root 2967 0.0 0.0 0 0 ?  I  07:27  0:01 [worker/0-0-cgr]
kayon-pc 3128 1.5 4.3 323372 350012 ?  Sl  07:31  0:36 /usr/lib/firefox/firefox
kayon-pc 3180 0.0 1.8 2408360 151184 ?  Sl  07:31  0:01 /usr/lib/firefox/firefox -contentproc -childID 1 -isForBrowser -prefiles 1 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 3238 0.2 1.9 2638240 161760 ?  Sl  07:31  0:04 /usr/lib/firefox/firefox -contentproc -childID 2 -isForBrowser -prefiles 238 -prefMapSize 193125 -parentBuildID 20191002193559
kayon-pc 3247 0.0 1.3 2568244 100736 ?  Sl  07:31  0:00 /usr/lib/firefox/firefox -contentproc -childID 3 -isForBrowser -prefiles 8135 -prefMapSize 193125 -parentBuildID 201910021935
root 4097 0.0 0.0 0 0 ?  I  07:36  0:00 [worker/1-0-cgr]
kayon-pc 4130 0.9 2.2 2715280 170252 ?  Sl  07:38  0:13 /usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefiles 8340 -prefMapSize 193125 -parentBuildID 201910021935
kayon-pc 4151 0.9 1.6 2649080 151060 ?  Sl  07:40  0:11 /usr/lib/firefox/firefox -contentproc -childID 8 -isForBrowser -prefiles 8436 -prefMapSize 193125 -parentBuildID 201910021935
kayon-pc 4220 0.4 1.5 2638460 157032 ?  Sl  07:40  0:00 /usr/lib/firefox/firefox -contentproc -childID 7 -isForBrowser -prefiles 8436 -prefMapSize 193125 -parentBuildID 201910021935
kayon-pc 4386 0.1 1.7 2500540 142028 ?  Sl  07:44  0:01 /usr/lib/firefox/firefox -contentproc -childID 9 -isForBrowser -prefiles 8467 -prefMapSize 193125 -parentBuildID 201910021935
kayon-pc 4457 0.0 0.0 2327852 76548 ?  Sl  07:45  0:00 /usr/lib/firefox/firefox -contentproc -childID 10 -isForBrowser -prefiles 8467 -prefMapSize 193125 -parentBuildID 201910021935
root 4745 0.0 0.0 0 0 ?  I  07:48  0:00 [worker/0-1-cgr]
root 4922 0.1 0.0 0 0 ?  I  07:53  0:00 [worker/0-1-cgr]
root 4923 0.0 0.0 0 0 ?  I  07:53  0:00 [worker/2-1-cgr]
root 4924 0.0 0.0 25980 6328 ?  S  07:53  0:00 /sbin/dhclient -d -q -sf /usr/lib/NetworkManager/m-dhcp-helper -pf /run/dhclient-esp80.pid -lf /var/lib/NetworkManager/dhcl
root 4981 0.3 0.0 0 0 ?  I  07:54  0:01 [worker/0-1-cgr]
root 5249 0.0 0.0 47216 3602 pts/0  Ss  08:01  0:00 ps -aux
root@kayon-pc28:/home/kayon-pc28# 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 EHCI #1 (rev 05)
00:15.0 Communication controller: Intel Corporation 8 Series/C220 Series Chipset Family MEI Controller #1 (rev 04)
00:16.0 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 d3)
00:1c.2 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (rev d3)
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 8 Series 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 NV108 [NVIDIA GeForce GTX 750 Ti] (rev a2)
01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1003/1005 PCIe to PCI Bridge (rev 04)
root@kayon-pc28:/home/kayon-pc28#
```

```
Terminal - root@kayon-pc28: /home/kayon-pc28

01:00.1 Audio device: NVIDIA Corporation NV108 [NVIDIA GeForce GTX 750 Ti] (rev a2)
01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1003/1005 PCIe to PCI Bridge (rev 04)
root@kayon-pc28:/home/kayon-pc28# free
              total        used        free      shared  buff/cache   available
Mem:            8103648    1149052    6954596    124540    1341008    6363280
Swap:             947008           0    947008

root@kayon-pc28:/home/kayon-pc28# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i3-4130 CPU @ 3.30GHz
stepping       : 3
microcode      : 0x27
cpu MHz        : 396.326
cache size     : 3144 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 mtr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts mpxi mma fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon pssb bts rep_good nopl stopleazy mwaitx tsc cpuid spectre_v1 spectre_v2 spec_store_bypass l1t mds smm32
bogomips       : 8584.81
clflush size   : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor       : 1
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i3-4130 CPU @ 3.30GHz
stepping       : 3
microcode      : 0x27
```

```
Terminal - root@kayon-pc28: /home/kayon-pc28

id2 arns invpcid vauxmnt dthrm ida arat pla pta ad_clear flash lid
bugs : cpu_mitimus spectre_v1 spectre_v2 spec_store_bypass l1tf mds mowps
bogomips : 4504.31
cf_flash_size : 64
cache_alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

processor : 0
vendor_id : GenuineIntel
cpu family : 6
model : 60
model name : Intel(R) Core(TM) i3-4150 CPU @ 3.30GHz
stepping : 3
microcode : 0x27
cpu MHz : 390.794
cache size : 3144 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
cpuid : 0
fpu : yes
bugs : fpu_vme de pos tsc nor pae mce cdx apic sep ntrr ppe mca cmov pat pse36 clflush dts acpi mma fxsr sse sse2 ss ht tx pbe syscall nx pdpebgh rdtsup ln constant tsc arch_perfmon pti bts rep_good nopl stpncpy mwaitx tsc cpuid aperfmperf pni pclmulqdq dtherm monitor ds_cpl vme sse sse2 sse3 sse4_1 sse4_2 x2apic mwaitx pti tsc
bogomips : 4504.31
cf_flash_size : 64
cache_alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayon-pc28:/home/kayon-pc28# finger root
Login: root Name: root
Directory: /root Shell: /bin/bash
Never logged in.
No mail.
No Plan.

root@kayon-pc28:/home/kayon-pc28#
```

```
Terminal - root@kayon-pc28: /home/kayon-pc28

root@kayon-pc28:/home/kayon-pc28# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayon-pc28:/home/kayon-pc28# ls -l
total 32
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Desktop
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Oct 18 00:04 Documents
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Downloads
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Music
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Oct 18 00:05 Pictures
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Public
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Templates
drwxr-xr-x 2 kayon-pc28 kayon-pc28 4096 Sep  4 11:35 Videos
root@kayon-pc28:/home/kayon-pc28# ls -l /none
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayon-pc28:/home/kayon-pc28# whatis ls
ls (1)      - list directory contents
root@kayon-pc28:/home/kayon-pc28# whatis mkdir
mkdir (1)   - make directories
mkdir (2)   - create a directory
root@kayon-pc28:/home/kayon-pc28# mkdir informatika
root@kayon-pc28:/home/kayon-pc28# rm -rf rpl.txt
root@kayon-pc28:/home/kayon-pc28# which mkdir
/bin/mkdir
root@kayon-pc28:/home/kayon-pc28# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayon-pc28:/home/kayon-pc28# df
Filesystem      1k-blocks    Used Available Use% Mounted on
udev            4001336      0   4001336   0% /dev
tmpfs           818368     1344    809600   1% /run
/dev/sda4       28627216  8748576  18285256  47% /
tmpfs           4051524    10148    3958776   3% /dev/shm
tmpfs          4051524      4        4051524   1% /run/lock
tmpfs          4051524      0    4051524   0% /sys/fs/cgroup
tmpfs          818368      0    818368   1% /run/user/1000
root@kayon-pc28:/home/kayon-pc28# du
du: cannot not find
root@kayon-pc28:/home/kayon-pc28# du
4
./Templates
44  ./gome2/gtksourceview-1.0/language-specs
48  ./gome2/gtksourceview-1.0
52  ./gome2
```


aman karena pengguna tidak perlu berhubungan dengan crash atau gangguan tidak terduga.

Zorin OS

Zorin OS merupakan distro yang terbuat dari kode program Ubuntu. Tampilan distro ini disusun sedemikian rupa sehingga menjadi alternatif yang pas untuk menggantikan Windows. Beberapa distro menyediakan tampilan sederhana berbeda dengan Windows. Namun Zorin malah menampilkan seluruh tampilan mirip dengan Windows.

Kali Linux

Kali Linux merupakan pengembangan dari distro Debian. Di dalam distro ini terdapat sebagian besar penetration testing untuk keamanan dan forensik. Dengan menerapkan model rolling release, setiap tool yang ada di distro ini selalu dalam keadaan up-to-date.

Backbox

BackBox merupakan pengembangan dari distro Ubuntu yang bertujuan untuk melakukan penetration testing dan pengujian keamanan suatu sistem. Distro ini merupakan satu di antara beberapa distro populer lain di bidangnya.

2. 20 perintah yang sama diantara masing masing distro

- ◆ man <perintah> untuk melihat panduan
- ◆ <perintah> -help untuk panduan ringkas
- ◆ sudo untuk super user
- ◆ ls untuk melihat direktori
- ◆ cd untuk masuk ke direktori
- ◆ mkdir <nama folder> untuk membuat folder
- ◆ pwd untuk melihat direktori aktif
- ◆ vim untuk membuka text editor
- ◆ cp <asal> <tujuan> untuk menyalin file
- ◆ mv <asal> <tujuan> untuk memindahkan folder
- ◆ rm <file> untuk menghapus file
- ◆ find <nama file> untuk mencari file
- ◆ history untuk melihat riwayat
- ◆ cat untuk melihat isi file
- ◆ echo untuk menampilkan baris teks
- ◆ grep untuk mencari kata
- ◆ wc untuk menampilkan baris baru
- ◆ sort untuk mengurutkan
- ◆ chmod untuk mengganti hak akses
- ◆ chown mengganti hak milik
- ◆ su untuk mengganti user id

3. Penjelasan init 0 - init 6

Init 0 digunakan utk maintenance, diagnostic hardware, booting selain dari disk misal dari cdroom.

command : init 0, shutdown -i0

Init 1 Single user mode, digunakan utk menambahkan patches, backup/restore system. di level ini kita bisa menjalankan/access semua file tapi user lain tidak bisa login ke dalam sytem kita.

command: init 1, shutdown -i1

Init 2 multiuser mode, biasanya utk digunakan dalam network. tapi disini tidak ada resourches yang di share.

command: init2, shutdown -i2

Init 3 memperluas multiuser mode, kita bisa membuat local resources share pada network kita. sehingga kita bisa berbagi data di level ini dalam network.
command: init 3, shutdown -i3

Init 4 untuk alternative multiuser mode tetapi saat ini belum bisa digunakan.
command: init4, shutdown -i4

Init 5 utk shutdown/ power off.
command: init5, shutdown -i5

Init 6 men stop operating system kemudian reboot dan kembali ke initdefault nya yang ada di /etc/inittab
command: init 6, shutdown -i6

4. Maksud dari perintah Quota

Fitur untuk mengatur pembatasan pemakaian ruang dari Harddisk. Pada Linux kita bisa mengatur limitasi penggunaan harddisk berdasarkan user dan root.