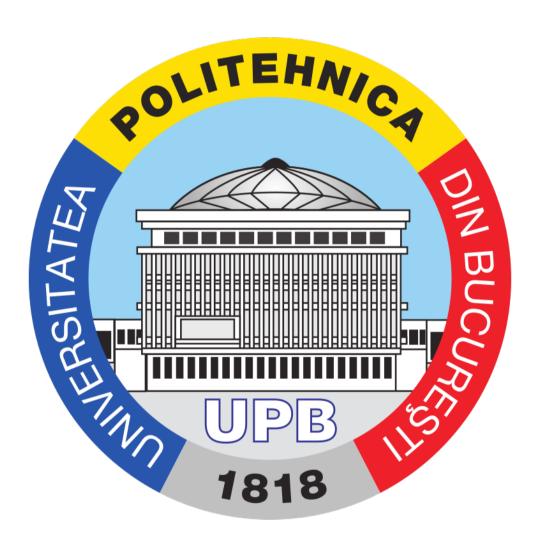
### EP-Lab03-2021

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#### **EX1:**

```
5400 RPM
5.5 RD

Divide 5400 RPM by 60 seconds: 90 RPS
Convert 1 of 90 to decimal: 0.011 seconds per rotation
Multiply the seconds per rotation by 1000 milliseconds: 11 ms per rotation
Divide the total in half: 5.5 MS
```

# EX2: TaskA:

```
avg-cpu: %user 11,16  %user 11,
```

```
1st reading:
sda:
0,00 rkB/s / 0,00 r/s = proof that you have
infinite efficency when you do nothing.

148,00 wkB/s / 12,00 w/s = 12.33

2nd reading:
sda:
0,00 rkB/s / 0,00 r/s = further proof that you have
infinite efficency when you do nothing.

96,00 wkB/s / 4,00 w/s = 24.00
```

#### TaskB:

```
otal_DISKseREAD :
                                            0r00sB/Stol
                                                                alTotals DISK WRITE :
                                            0.00 B/s
                                                                 Actual DISK WRITE:
                                        DISK READ
                                                                                    SWAPIN
 TID PRIO USER
                                                             DISK WRITE
                                                                                                         I0>
                                                                                                                       COMMAND
                                                               11.71 K/s
1280 be/3 root
                                         0.00 B/s
3282<sub>tibe</sub>/4 ghostpandd a tir0es00nrB/rSea
8534 be/4 ghostpan
                                         0.00 B/s
                                                               31.22 K/s 0.00 % 0.00 % chrome --enable-crashpad 35.13 K/s 0.00 % 0.00 % chrome --enable-~Chrome IOThread 23.42 K/s 0.00 % 0.00 % chrome --enable-~ThreadPoolForeg 27.32 K/s 0.00 % 0.00 % chrome --enable-~ThreadPoolForeg 11.71 K/s 0.00 % 0.00 % chrome --type=ut~ThreadPoolForeg state shell showing only processes or threads actually
                                          0.00 B/s
1206 be/4 ghostpan
                                          0.00 B/s
```

#### **Ex3:**

#### TaskA:

```
df -Th
                                /dev/urandom | dd of=/home/student/rand b
                              Size
Filesystem
                  Type
                                     Used Avail Use% Mounted on
                  devtmpfs
                              3,8G
udev
                                             3,8G
                                                      0% /dev
                          Look 782Melar<u>1</u>eginne 780Merag1%ar/sեր npeed. What conclu
tmpfs
                                                    89% /
/dev/nvme0n1p5
                  ext4
                               83G
                                       70G
                                             9.1G
                                                      iji droutput and one ss of the 2% /dev/shm
                                             3,8G
                              3,9G
                                       49M
tmpfs
                  tmpfs
tmpfs
                                      4,0K
                                                      1% /run/lock
                  tmpfs
                              5,0M
                                             5.0M
                                     err co
                                           U3/969
                              3.9G
tmpfs
                  tmpfs
                                                      0% /sys/fs/cgroup
/dev/sda4
                  ext4
                              457G
                                      228G
                                             206G
                                                    53% /home
/dev/nvme0n1p2
                 vfat The purpos 5M
                                    his 33M
                                           se i63Mden35%/h/bootl/efits appear
                  tmpfs
                            L0782M
                                       56K
                                             782M
                                                      1% /run/user/1000
tmpfs
ext4
                               1.0G
                                             1,0G
                                                      0% /mnt/ramdisk
                  tmpfs
```

#### TaskB:

Conclusion: Writing to RAM is much faster.

# Ex4: TaskA:

```
process timing
    run time: 0 days, 0 hrs, 0 min, 27 sec
    last new path: 0 days, 10 hrs, 10 min, 0 sec
last uniq crash: 0 days, 10 hrs, 10 min, 14 tsec./fuzzgoit uniquorashes: 158
last uniq hang: none seen yet

cycle progress
now processing: 69 (43.65%) c-Run performable density: 0.12% / 0.54%
paths timed out: 0 (0.00%)

stage progress
now trying: havoc
stage execs: 10.7k/32.8k (32.67%)
total execs: 142k
exec speed: 5098/sec

fuzzing strategy yields
bit flips: 11/776, 1/752, 2/704
byte flips: 0/97, 0/73, 1/36 d-e cycles aft-fuzz-i-arithmetics: 23/5381, 0/4083,00/0 reo print the recorder findings: 157
dictionary: 0/0, 0/0, 0/0
havoc: 125/117k,e0/0 ou should get a report showing a list of the stability dips: 100.00% ure to add a trim: 50.00%/27, 0.00%

[cpu000: 16%]
```

#### TaskB:

```
Samples: 269K of event 'cycles', Event count (approx.): 19706349508
Overhead Command
                                Shared Object
                                                               Symbol
               fuzzgoat [kernel kallsyms]
               fuzzgoat [kernel.kallsyms]
                                                              [k] prepare exitato usermode
               fuzzgoat [kernel.kallsyms]
                                                               [k]oveslab free
               fuzzgoat [kernel.kallsyms]
               fuzzgoat [kernel.kallsyms]
                                                               [k] kfree
               fuzzgoat [kernel.kallsyms]
                                                               [k] sync regs
[k] do_syscall_64
               fuzzgoat [kernel.kallsyms]
              fuzzgoat [kernel.kallsyms]
fuzzgoat [kernel.kallsyms]
fuzzgoat [kernel.kallsyms]
fuzzgoat [kernel.kallsyms]
fuzzgoat [kernel.kallsyms]
afl-fuzz [kernel.kallsyms]
                                                              /c[k] aflhandleimmffaultt/in -o afl_out -- ./fuzzgoat/f
p [k]nt tslabcfree info
    1,06% fuzzgoat [kernel.kallsyms]
1,03% fuzzgoat [kernel.kallsyms]
                                                               [k] page remove rmap
[k] radius a lst of the most used functions. (f) Make sure to add a ss of
[k] page_add_file_rmap
    0,97% fuzzgoat [kernel.kallsyms]
0,89% fuzzgoat [kernel.kallsyms]
    0,88% fuzzgoat [kernel.kallsyms]
0,77% fuzzgoat [kernel.kallsyms]
0,76% fuzzgoat [kernel.kallsyms]
0,69% fuzzgoat [kernel.kallsyms]
                                                             [k] clear_page_erms
he[k]feentryfSYSCALLE_64
                                                               e[k] arcue cblistedequeue orm
    0,61% fuzzgoat [kernel kallsyms]
0,61% fuzzgoat [kernel kallsyms]
    0,61% fuzzgoat
               afl-fuzz [kernel.kallsyms]
                                                                [K] Kmem Calche Street and Performance Monitoring.
```

#### **Ex5:**

### Feedback Performance Evaluation

Your response has been recorded.

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