

3B. Gyakorlat

1.feladat

```
mint@mint: ~  
File Edit View Search Terminal Help  
top - 12:30:49 up 4 min, 1 user, load average: 0.24, 0.94, 0.52  
Tasks: 153 total, 1 running, 152 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 2.3 us, 0.3 sy, 0.0 ni, 97.3 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
MiB Mem : 1987.8 total, 570.7 free, 522.5 used, 894.6 buff/cache  
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 1220.0 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1624	mint	20	0	3269716	179276	110804	S	2.0	8.8	0:12.40	cinnamon
993	root	20	0	277144	74084	47596	S	0.3	3.6	0:02.03	Xorg
1968	mint	20	0	13604	3880	3376	R	0.3	0.2	0:00.06	top
1	root	20	0	101708	11556	8704	S	0.0	0.6	0:02.07	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+
5	root	20	0	0	0	0	I	0.0	0.0	0:00.00	kworker+
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
7	root	20	0	0	0	0	I	0.0	0.0	0:00.02	kworker+
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_perc+
9	root	20	0	0	0	0	S	0.0	0.0	0:00.42	ksoftir+
10	root	20	0	0	0	0	I	0.0	0.0	0:00.50	rcu_sch+
11	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migrati+
12	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_in+
13	root	20	0	0	0	0	I	0.0	0.0	0:00.33	kworker+
14	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0

2.feladat

```
mint@mint:~$ vmstat  
procs -----memory----- ---swap-- ----io---- -system-- -----cpu-----  
r b swpd free buff cache si so bi bo in cs us sy id wa st  
2 0 0 583340 155876 760400 0 0 1064 0 166 681 15 7 76 1 0  
mint@mint:~$
```

3.feladat

```
mint@mint:~$ w  
12:33:16 up 7 min, 1 user, load average: 0.10, 0.61, 0.45  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
mint tty7 :0 12:26 6:38 3.86s 0.83s cinnamon-sessio  
mint@mint:~$
```

4.feladat

```
mint@mint:~$ uname  
Linux  
mint@mint:~$
```

5.feladat

```
mint@mint:~$ ps
  PID TTY          TIME CMD
 1957 pts/0    00:00:00 bash
 1988 pts/0    00:00:00 ps
mint@mint:~$ ps -A
  PID TTY          TIME CMD
   1 ?        00:00:02 systemd
   2 ?        00:00:00 kthreadd
   3 ?        00:00:00 rcu_gp
   4 ?        00:00:00 rcu_par_gp
   6 ?        00:00:00 kworker/0:0H-kblockd
   7 ?        00:00:00 kworker/u2:0-events_unbound
```

6.feladat

```
mint@mint:~$ free
              total        used        free      shared  buff/cache   available
Mem:           2035532       526588       592400         88384        916544       1257836
Swap:              0              0              0
```

7.feladat

```
mint@mint:~$ iostat
Linux 5.4.0-58-generic (mint)   03/01/21        _x86_64_        (1 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           14.31    0.00    5.23    0.69    0.00   79.77

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_w
rtn    kB_dscd
loop0              222.88        224.34         0.00         0.00       192111
  0              0
sda              0.23         5.15         0.00         0.00        4412
  0              0
scd0              7.82       327.44         0.00         0.00      280394
  0              0
```

8.feladat

```
mint@mint:~$ sar
Cannot open /var/log/sysstat/sa01: No such file or directory
Please check if data collecting is enabled
mint@mint:~$
```

9.feladat

```
mint@mint:~$ mpstat
Linux 5.4.0-58-generic (mint) 03/01/21 _x86_64_ (1 CPU)

12:41:51 CPU %usr %nice %sys %iowait %irq %soft %steal %guest
          %gnice %idle
12:41:51 all 13.61 0.00 4.76 0.63 0.00 0.07 0.00 0.00
          0.00 80.92
mint@mint:~$
```

10.feladat

```
pmap [options] PID [PID ...]

Options:
-x, --extended      show details
-X                  show even more details
                    WARNING: format changes according to /proc/PID/smaps
-XX                 show everything the kernel provides
-c, --read-rc        read the default rc
-C, --read-rc-from=<file> read the rc from file
-n, --create-rc      create new default rc
-N, --create-rc-to=<file> create new rc to file
                    NOTE: pid arguments are not allowed with -n, -N
-d, --device         show the device format
-q, --quiet          do not display header and footer
-p, --show-path      show path in the mapping
-A, --range=<low>[,<high>] limit results to the given range

-h, --help          display this help and exit
-V, --version        output version information and exit

For more details see pmap(1).
mint@mint:~$ pmap -n
pmap: ~/.pmaprc file successfully created, feel free to edit the content
mint@mint:~$
```