3Bgyak

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```
top - 17:20:41 up 14 min,  1 user,  load average: 0.03, 0.07, 0.07
Tasks: 180 total,   1 running, 179 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.1 us,  0.0 sy,  0.0 ni, 99.9 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   7961.8 total,   4961.7 free,   1307.7 used,   1692.4 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.   6134.4 avail Mem

   PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
    25 root      20   0       0      0      0 I   0.3   0.0   0:00.23 kworker/2:0-events
  2502 mint      20   0 3039212 348692 164156 S   0.3   4.3   0:54.78 firefox
  2723 mint      20   0 3077860 414856 164264 S   0.3   5.1   0:30.26 Web Content
     1 root      20   0  167332  11536   8576 S   0.0   0.1   0:00.94 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-kblockd
     9 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
    10 root      20   0       0      0      0 S   0.0   0.0   0:00.06 ksoftirqd/0
    11 root      20   0       0      0      0 I   0.0   0.0   0:00.28 rcu_sched
    12 root      rt   0       0      0      0 S   0.0   0.0   0:00.00 migration/0
    13 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/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     -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   0:00.39 migration/1
    18 root      20   0       0      0      0 S   0.0   0.0   0:00.05 ksoftirqd/1
    20 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/1:0H-kblockd
    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   0:00.40 migration/2
    24 root      20   0       0      0      0 S   0.0   0.0   0:00.06 ksoftirqd/2
    26 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/2:0H-kblockd
    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
```

Az aktív processzeket mutattja valós időben.

mint@mint: ~

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```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

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
 1  0      0 5079052 284900 1457464    0    0   173     0  503  840  2  1 96  1  0
mint@mint:~$
```

A rendszer, hardver kihasználtságát mutattja.

```
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To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

mint@mint:~$ w
 17:26:37 up 20 min,  1 user,  load average: 0.27, 0.13, 0.09
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
mint     tty7     :0               17:05   20:46  26.64s  0.37s cinnamon-sessio
mint@mint:~$ ▮
```
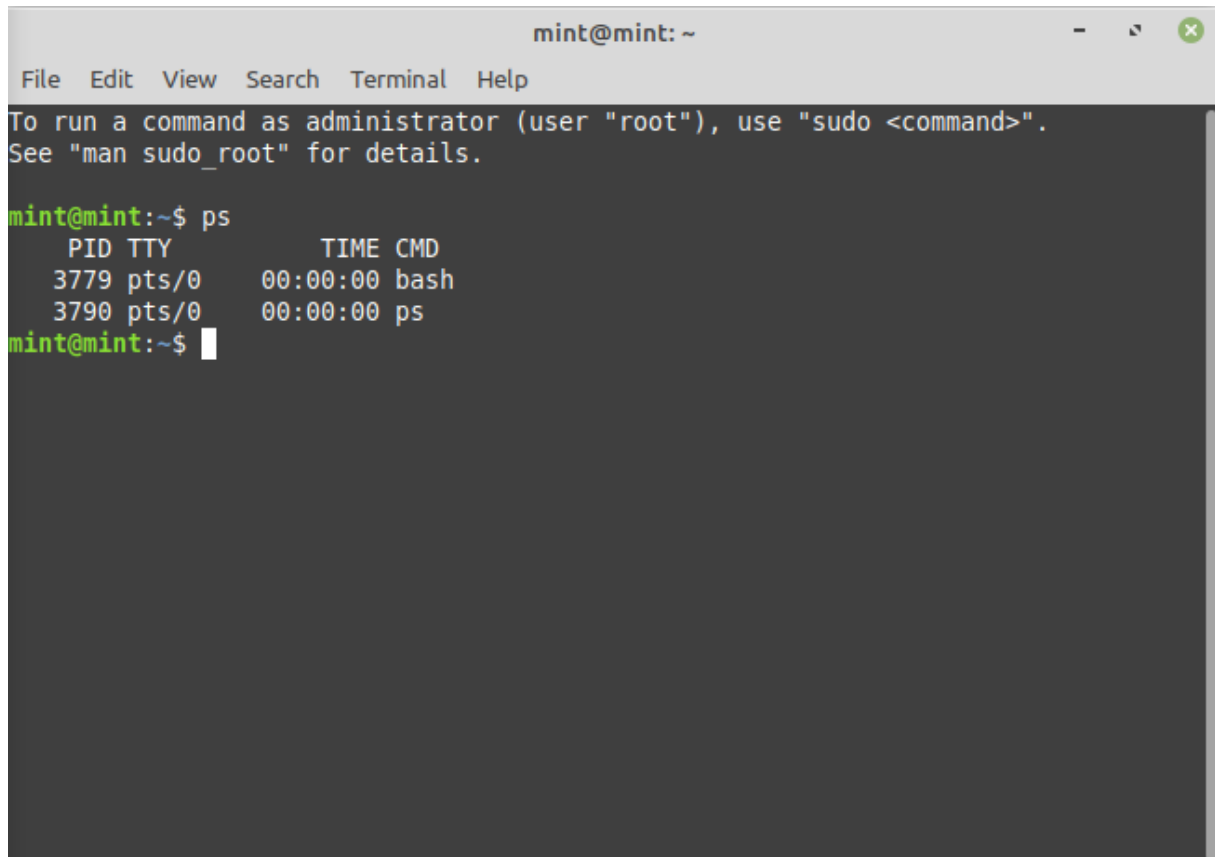
A bejelentkezett felhasználót mutattja.

```
                              mint@mint: ~                        -  ↻  ⊗
File  Edit  View  Search  Terminal  Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

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

Ez számomra ennyit hozott ki, de ahogy utána néztem szerverrel kapcsolatos lekérésre alkalmas.


```
                        mint@mint: ~                    –  ⟳  ⊗

File   Edit   View   Search   Terminal   Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

mint@mint:~$ ps
    PID TTY          TIME CMD
   3779 pts/0    00:00:00 bash
   3790 pts/0    00:00:00 ps
mint@mint:~$ 
```

A jelenleg használt processzeket mutattja.

```
                                    mint@mint: ~                        –   ◌   ⊗

 File   Edit   View   Search   Terminal   Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

mint@mint:~$ free
              total        used        free      shared  buff/cache   available
Mem:        8152880     1352852     5012056      295336     1787972     6234596
Swap:             0           0           0
mint@mint:~$ █
```

Megmutattja a memória felhasználást, mennyi van használatban/szabadon.

```
                                    mint@mint: ~                        –   ◌   ⊗

 File   Edit   View   Search   Terminal   Help
 auto mode
Created symlink /etc/systemd/system/multi-user.target.wants/sysstat.service → /l
ib/systemd/system/sysstat.service.
Processing triggers for systemd (245.4-4ubuntu3.3) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for doc-base (0.10.9) ...
Processing 44 changed doc-base files, 1 added doc-base file...
mint@mint:~$ iostat
Linux 5.4.0-58-generic (mint)     03/01/21        _x86_64_         (4 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           1.49    0.00    0.81    0.36    0.00   97.34

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read     kB_w
rtn    kB_dscd
loop0          188.99       189.69         0.00         0.00     324531
   0          0
sda              0.12         2.55         0.00         0.00       4364
   0          0
scd0             5.60       255.56         0.00         0.00     437230
   0          0

mint@mint:~$
```

A CPU kihasználtságot mutattja, valamint a számítógép in/output eszközeit.


```
                                    mint@mint: ~                    –  ✕  ⊗

 File   Edit   View   Search   Terminal   Help
mint@mint:~$ sar
Cannot open /var/log/sysstat/sa01: No such file or directory
Please check if data collecting is enabled
mint@mint:~$ sar 4 5
Linux 5.4.0-58-generic (mint)     03/01/21          _x86_64_          (4 CPU)

17:35:54        CPU      %user      %nice     %system    %iowait     %steal      %idle
17:35:58        all       0.06       0.00        0.06       0.00       0.00      99.87
sar 317:36:02            all        0.88       0.00        0.25       0.00       0.00          9
8.87
17:36:06        all       0.69       0.00        0.06       0.00       0.00      99.25
17:36:10        all       0.38       0.00        0.13       0.00       0.00      99.50
17:36:14        all       0.12       0.00        0.06       0.00       0.00      99.81
Average:        all       0.43       0.00        0.11       0.00       0.00      99.46
mint@mint:~$ sar
```
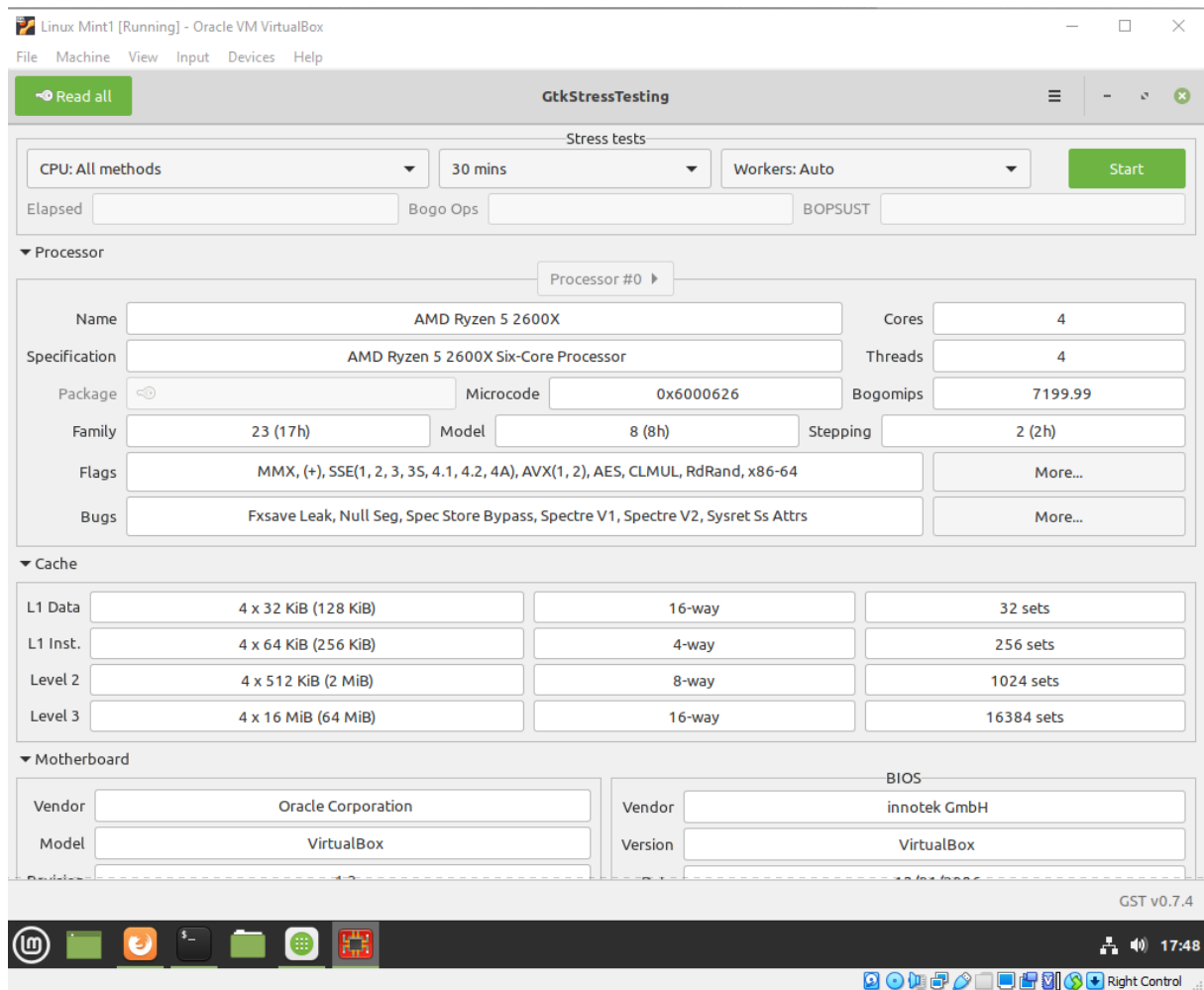
A CPU aktivitását mutattja meg.

A több processzoros használatot mutattja.

```
                              mint@mint: ~                         –    ⤢    ✕
 File   Edit   View   Search   Terminal   Help
mint@mint:~$ pmap

Usage:
 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:~$ █
```

Egy megadott processz memória használtságát mutattja meg.

Ez a program sokmindent foglal össze, a processzor kihasználtságot , a verem, az alaplap, a memória adatait(és úgyszint kihasználtságát is).