

Név: Nagy Róbert

Neptun: JMDRGG

Top:

A top parancs kilistázza a processzeket és a hozzájuk tartozó metrikákat mint pl pid, %CPU, %MEM. A rendszer kihasználtságáról szolgáltat információkat. A processzeket CPU és memória kihasználtság szerint lehet sorrendezni.

```
top - 12:53:55 up 11 min, 0 users, load average: 0.01, 0.00, 0.00
Tasks: 8 total, 1 running, 7 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.2 sy, 0.0 ni, 99.8 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 9486.0 total, 9390.8 free, 60.3 used, 34.9 buff/cache
MiB Swap: 3072.0 total, 3072.0 free, 0.0 used. 9272.9 avail Mem
```

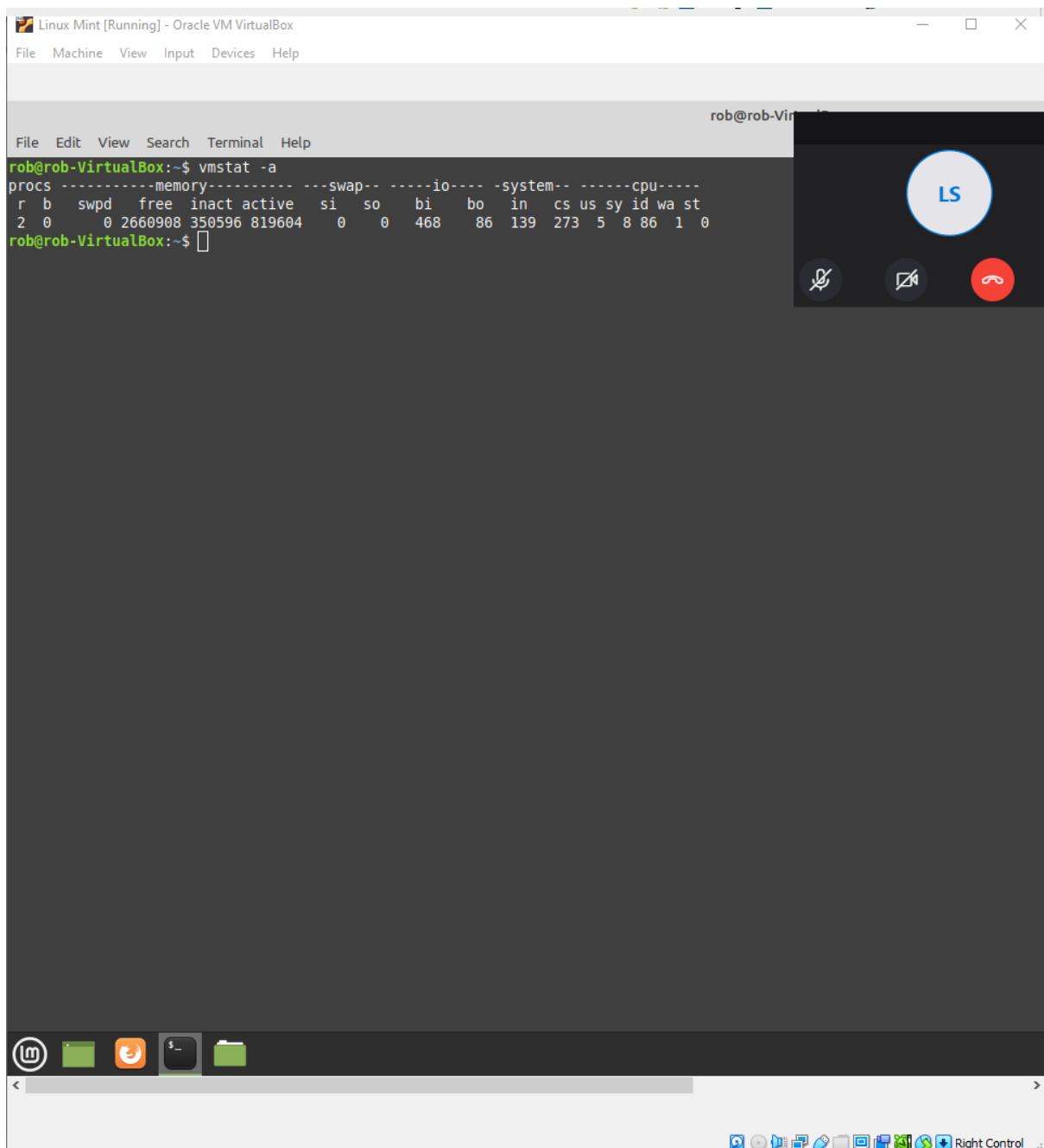
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	892	532	472	S	0.0	0.0	0:00.03	init
7	root	20	0	892	76	16	S	0.0	0.0	0:00.00	init
8	root	20	0	892	76	16	S	0.0	0.0	0:00.00	init
9	rob	20	0	12844	6552	4208	S	0.0	0.1	0:00.18	zsh
38	root	20	0	892	76	16	S	0.0	0.0	0:00.00	init
39	root	20	0	892	76	16	S	0.0	0.0	0:00.00	init
40	rob	20	0	12844	6792	4452	S	0.0	0.1	0:00.16	zsh
62	rob	20	0	10860	3800	3288	R	0.0	0.0	0:00.01	top

Vmstat -a

A Vmstat információt ad a processzekről, a memóriáról, a pagingről, a trapecről, a diskekről és a Cpu aktivitásról.

-a flag az aktív és inaktív memóriáról szolgáltat információt

-m a slabekről ad információt



```
Linux Mint [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

rob@rob-VirtualBox:~$ vmstat -a
procs -----memory----- --swap-- -----io---- -system-- -----cpu-----
r b swpd free  inact active si so  bi  bo  in  cs us sy id wa st
2 0    0 2660908 350596 819604    0    0  468   86  139  273  5  8  86  1  0
rob@rob-VirtualBox:~$
```

## Vmstat -m

```
Linux Mint [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

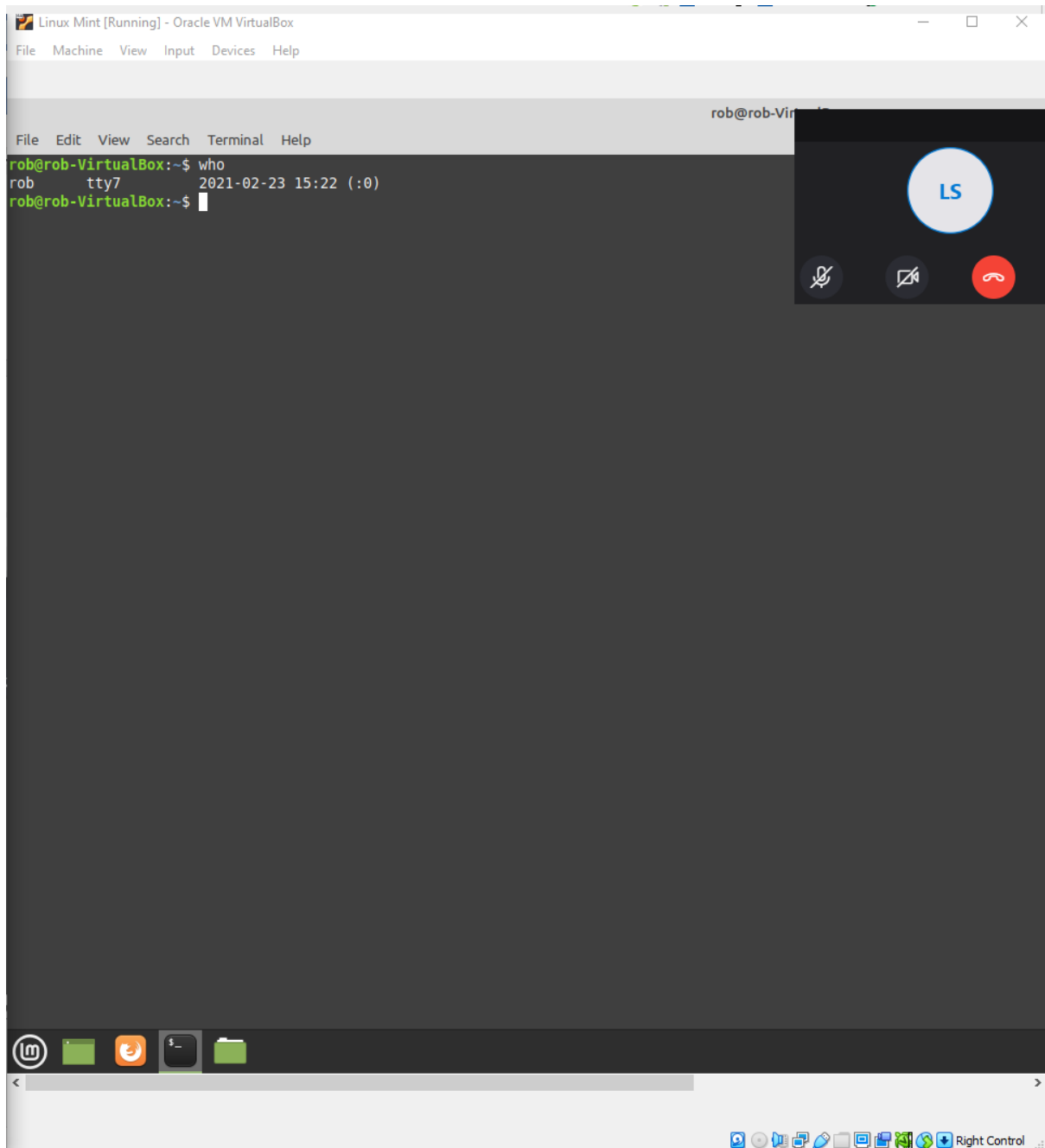
rob@rob-VirtualBox:~$ sudo vmstat -m
[sudo] password for rob:
vmstat: your kernel does not support slabinfo or your permissions are insufficient
rob@rob-VirtualBox:~$ sudo vmstat -m
[sudo] password for rob:
Cache
```

	Num	Total	Size	Pages
ext4_groupinfo_4k	252	252	144	28
btrfs_delayed_node	0	0	312	13
btrfs_ordered_extent	0	0	416	19
btrfs_free_space_bitmap	0	0	12288	2
btrfs_inode	0	0	1168	14
fsverity_info	0	0	248	16
ip6_frags	0	0	184	22
PINGv6	0	0	1216	13
RAWv6	39	39	1216	13
UDPV6	60	60	1344	12
tw_sock_TCPv6	0	0	248	16
request_sock_TCPv6	0	0	304	13
TCPv6	52	52	2368	13
kcopyd_job	0	0	3312	9
dm_uevent	0	0	2632	12
scsi_sense_cache	160	160	128	32
mqueue_inode_cache	17	17	960	17
fuse_request	28	28	144	28
fuse_inode	19	19	832	19
ecryptfs_key_record_cache	0	0	576	14
ecryptfs_inode_cache	0	0	1024	16
ecryptfs_file_cache	0	0	16	256
ecryptfs_auth_tok_list_item	0	0	832	19
fat_inode_cache	22	22	744	22
fat_cache	0	0	40	102
squashfs_inode_cache	0	0	704	23
jbd2_journal_handle	170	170	48	85
jbd2_journal_head	340	408	120	34
jbd2_revoke_table_s	256	256	16	256
ext4_inode_cache	39855	40977	1096	29
ext4_allocation_context	64	64	128	32
ext4_system_zone	102	102	40	102
ext4_io_end	128	128	64	64
ext4_pending_reservation	256	256	32	128
ext4_extent_status	12036	12036	40	102
mbcache	146	146	56	73
userfaultfd_ctx_cache	0	0	192	21
dnotify_struct	0	0	32	128
pid_namespace	0	0	208	19
ip4_frags	0	0	200	20
xfrm_state	0	0	704	23
PING	1264	1264	1024	16
RAW	48	48	1024	16

```
rob@rob-VirtualBox:~$
```

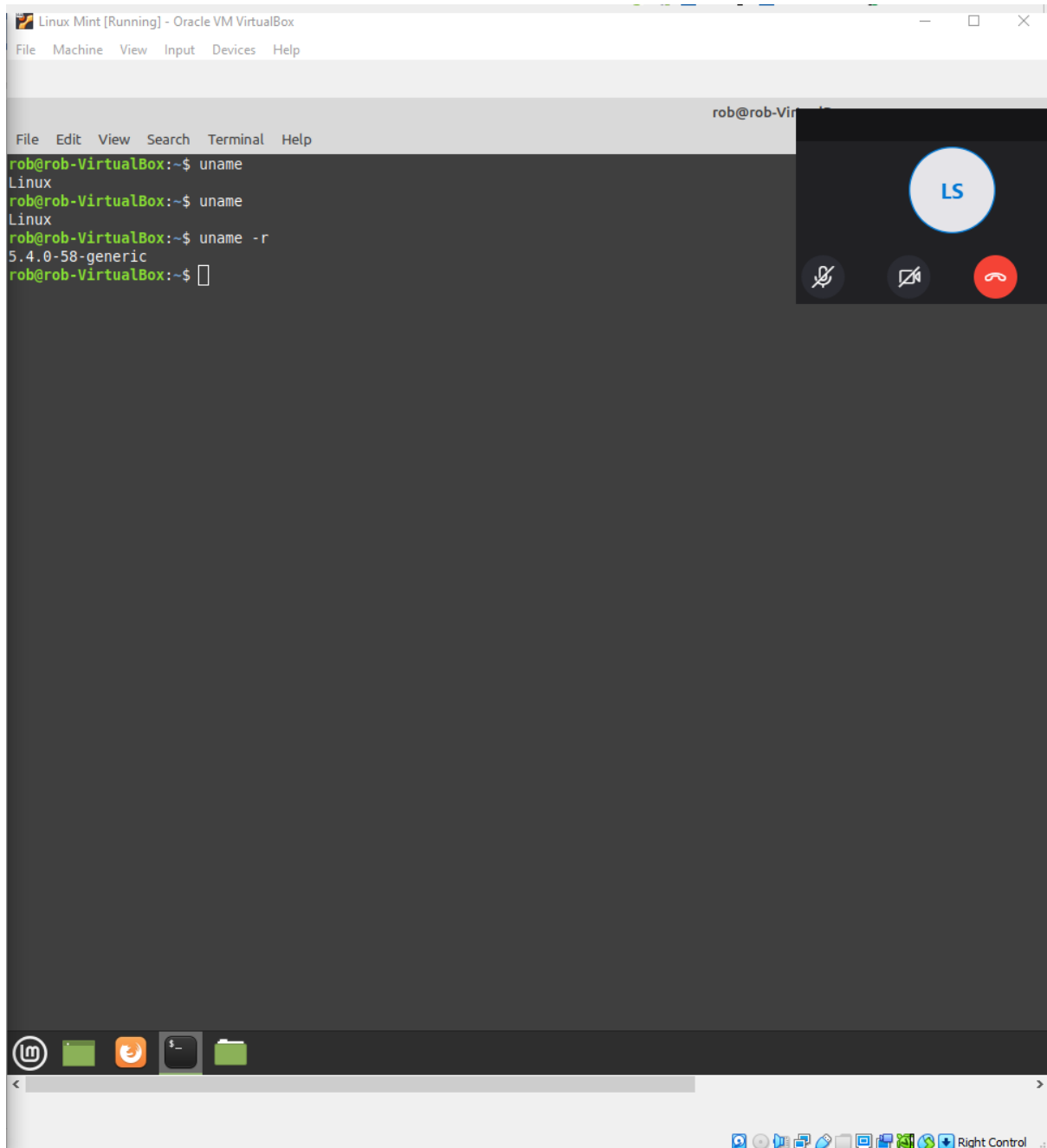
Who

A bejelentkezett felhasználók listája.



Uname

Rendszerinformációkat ír ki



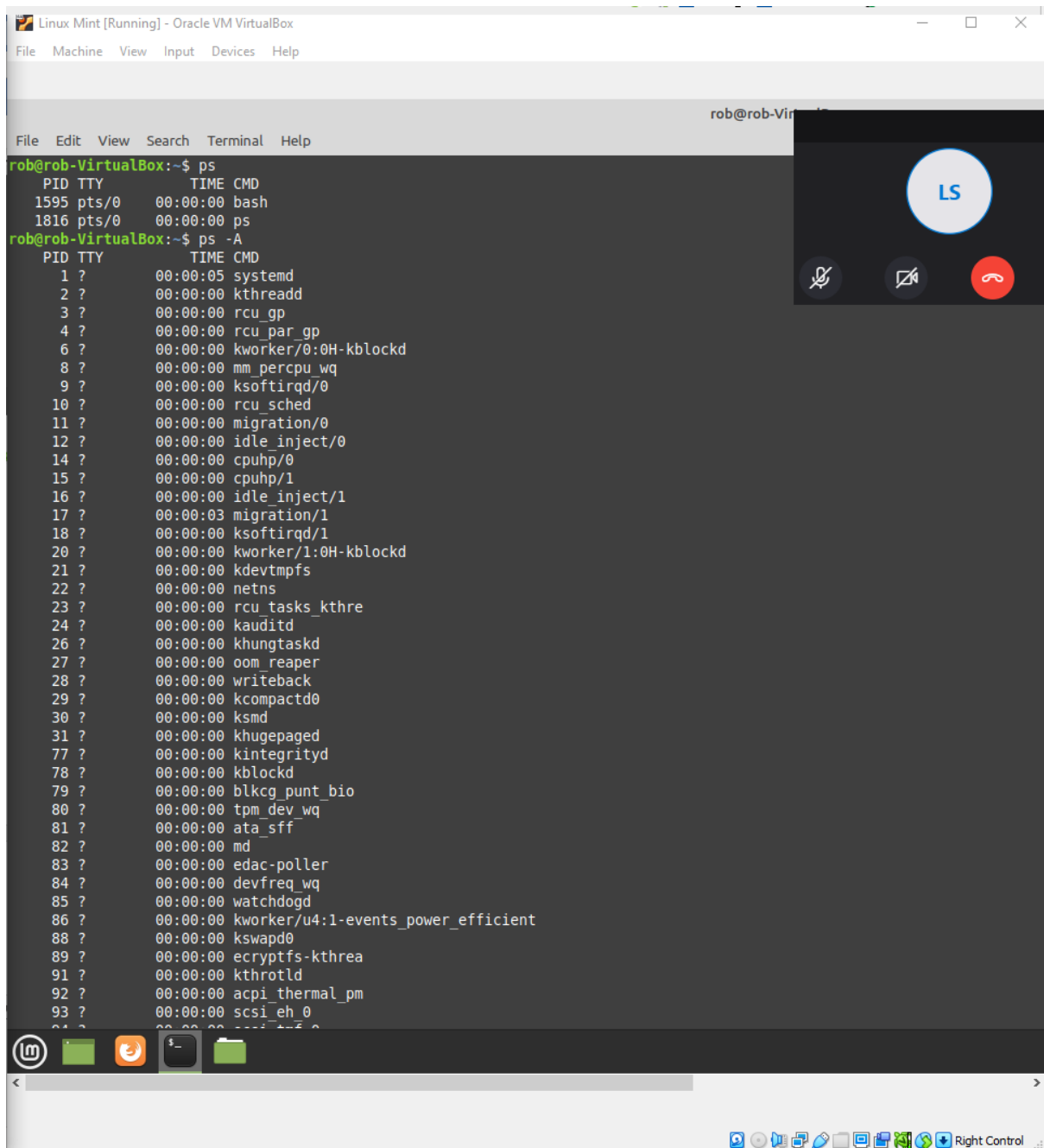
The screenshot shows a Linux Mint desktop environment with a terminal window open. The terminal window has a title bar that reads "Linux Mint [Running] - Oracle VM VirtualBox". The terminal's menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal's title bar also shows "rob@rob-VirtualBox". The terminal's command history is as follows:

```
rob@rob-VirtualBox:~$ uname
Linux
rob@rob-VirtualBox:~$ uname
Linux
rob@rob-VirtualBox:~$ uname -r
5.4.0-58-generic
rob@rob-VirtualBox:~$
```

The terminal window is overlaid on a desktop background. The desktop has a taskbar at the bottom with icons for the Linux Mint logo, a file manager, a terminal, and a folder. The system tray at the bottom right shows various icons, including a network icon, a volume icon, a power icon, and a "Right Control" button.

Ps

Futó programokat kilistázó parancs

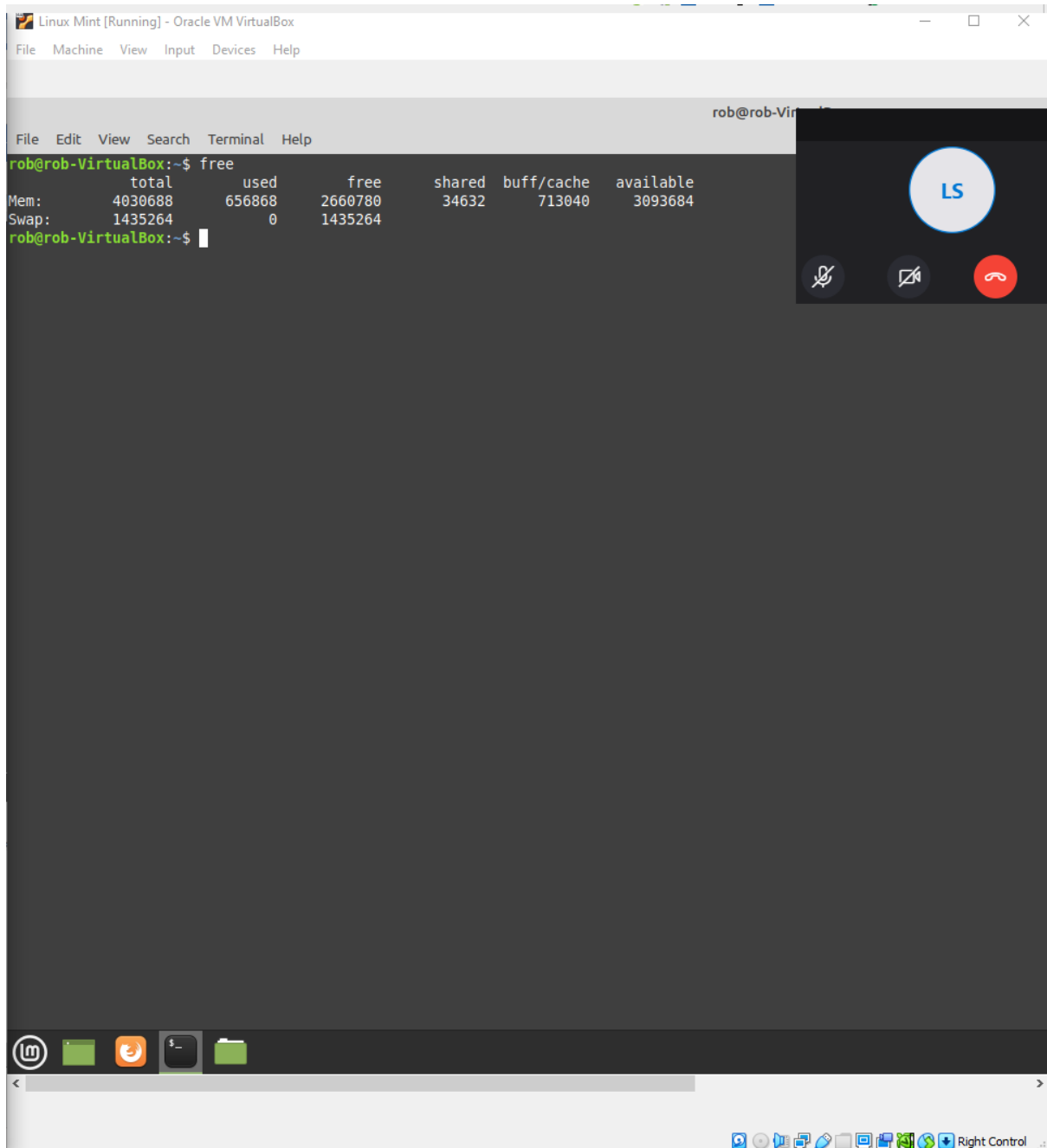


```
Linux Mint [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

rob@rob-VirtualBox:~$ ps
  PID TTY          TIME CMD
 1595 pts/0    00:00:00 bash
 1816 pts/0    00:00:00 ps
rob@rob-VirtualBox:~$ ps -A
  PID TTY          TIME CMD
   1 ?        00:00:05 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
   8 ?        00:00:00 mm_percpu_wq
   9 ?        00:00:00 ksoftirqd/0
  10 ?        00:00:00 rcu_sched
  11 ?        00:00:00 migration/0
  12 ?        00:00:00 idle_inject/0
  14 ?        00:00:00 cpuhp/0
  15 ?        00:00:00 cpuhp/1
  16 ?        00:00:00 idle_inject/1
  17 ?        00:00:03 migration/1
  18 ?        00:00:00 ksoftirqd/1
  20 ?        00:00:00 kworker/1:0H-kblockd
  21 ?        00:00:00 kdevtmpfs
  22 ?        00:00:00 netns
  23 ?        00:00:00 rcu_tasks_kthre
  24 ?        00:00:00 kauditd
  26 ?        00:00:00 khungtaskd
  27 ?        00:00:00 oom_reaper
  28 ?        00:00:00 writeback
  29 ?        00:00:00 kcompactd0
  30 ?        00:00:00 ksm
  31 ?        00:00:00 khugepaged
  77 ?        00:00:00 kintegrityd
  78 ?        00:00:00 kblockd
  79 ?        00:00:00 blkcg_punt_bio
  80 ?        00:00:00 tpm_dev_wq
  81 ?        00:00:00 ata_sff
  82 ?        00:00:00 md
  83 ?        00:00:00 edac-poller
  84 ?        00:00:00 devfreq_wq
  85 ?        00:00:00 watchdogd
  86 ?        00:00:00 kworker/u4:1-events_power_efficient
  88 ?        00:00:00 kswapd0
  89 ?        00:00:00 ecryptfs-kthrea
  91 ?        00:00:00 kthrotld
  92 ?        00:00:00 acpi_thermal_pm
  93 ?        00:00:00 scsi_eh_0
```

Free

A memória és swap kihasználtságot kiíró parancs



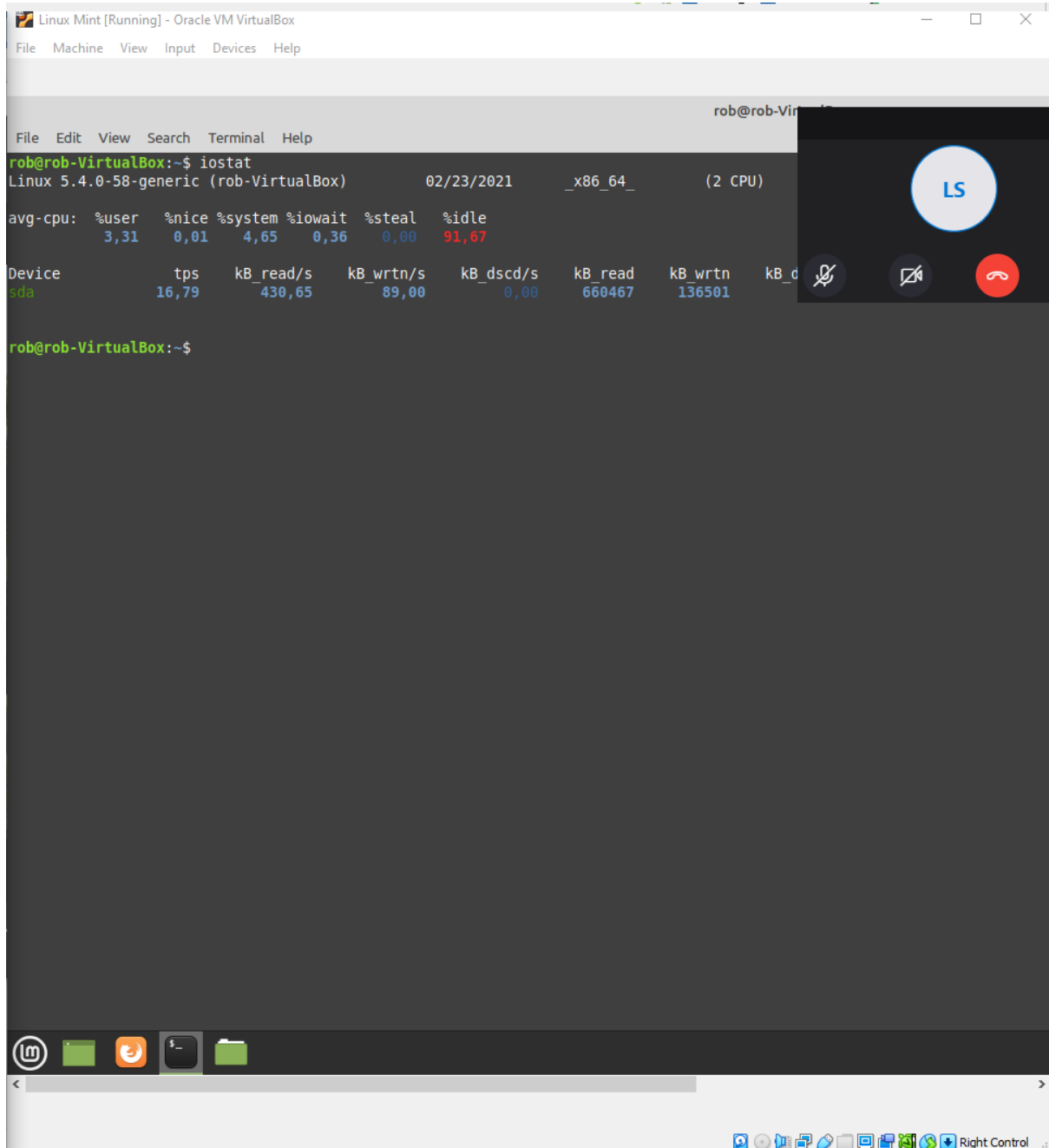
```
Linux Mint [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

rob@rob-VirtualBox:~$ free
              total        used        free      shared  buff/cache   available
Mem:           4030688       656868       2660780        34632        713040       3093684
Swap:          1435264           0       1435264

rob@rob-VirtualBox:~$
```

lsstat

Reportolja a CPU statisztikákat és az eszközök és partíciók input / output statisztikáit.



```
Linux Mint [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

rob@rob-VirtualBox:~$ iostat
Linux 5.4.0-58-generic (rob-VirtualBox)      02/23/2021      _x86_64_      (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           3,31    0,01    4,65    0,36    0,00   91,67

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
sda                16,79        430,65        89,00         0,00     660467     136501

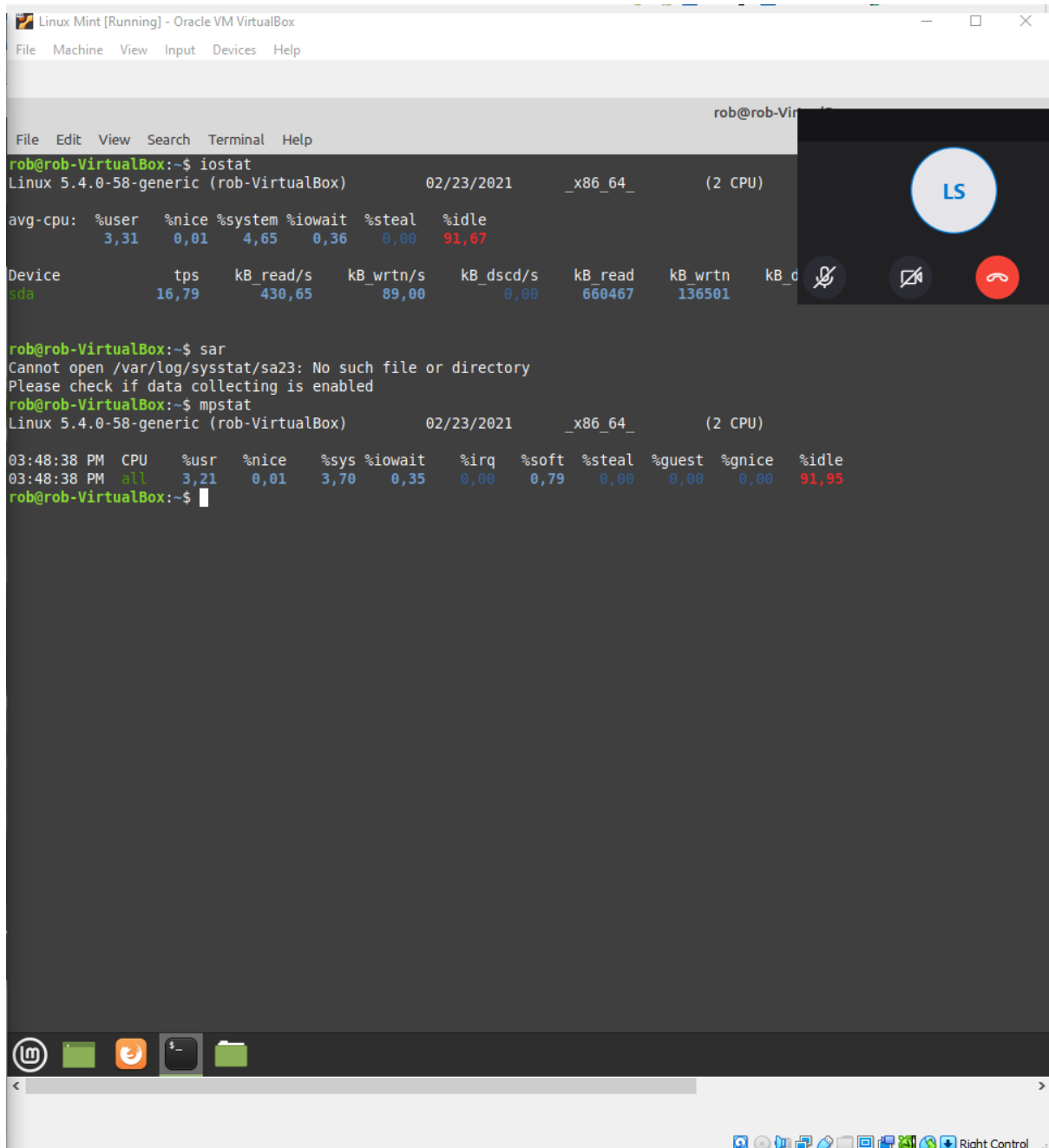
rob@rob-VirtualBox:~$
```

The screenshot shows a terminal window titled "Linux Mint [Running] - Oracle VM VirtualBox". The user has executed the command `iostat`. The output displays system information (Linux 5.4.0-58-generic, 02/23/2021, \_x86\_64\_, 2 CPU) followed by CPU statistics and disk I/O statistics for the `sda` device. A floating window with a blue circle containing "LS" and three control buttons (mute, maximize, close) is overlaid on the right side of the terminal. The terminal's taskbar at the bottom shows icons for the terminal, file manager, and other applications.



## Mpstat

Kiírja a cpuhoz tartozó információkat



The screenshot shows a Linux Mint terminal window titled "Linux Mint [Running] - Oracle VM VirtualBox". The terminal displays the output of the `iostat` and `mpstat` commands. A floating window with a blue circle containing "LS" and three icons (a magnifying glass, a square, and a red circle) is overlaid on the right side of the terminal.

```
rob@rob-VirtualBox:~$ iostat
Linux 5.4.0-58-generic (rob-VirtualBox)      02/23/2021      _x86_64_      (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           3,31    0,01   4,65    0,36    0,00   91,67

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
sda                16,79       430,65        89,00         0,00     660467     136501

rob@rob-VirtualBox:~$ sar
Cannot open /var/log/sysstat/sa23: No such file or directory
Please check if data collecting is enabled
rob@rob-VirtualBox:~$ mpstat
Linux 5.4.0-58-generic (rob-VirtualBox)      02/23/2021      _x86_64_      (2 CPU)

03:48:38 PM  CPU    %usr   %nice    %sys %iowait    %irq   %soft  %steal  %guest  %gnice   %idle
03:48:38 PM  all     3,21    0,01    3,70    0,35    0,00    0,79    0,00    0,00    0,00   91,95

rob@rob-VirtualBox:~$
```

## GtkStressTesting

### Benchmarkot készít a számítógépen

Linux Mint (Running) - Oracle VM VirtualBox

File Machine View Input Devices Help

### GtkStressTesting

**Stress tests**

CPU: All methods | 30 mins | Workers: Auto | **Start**

Elapsed | Bogo Ops | BOPSUST

**Processor**

Processor #0

Name: Intel Core i3-7020U | Cores: 2

Specification: Intel(R) Core(TM) i3-7020U CPU @ 2.30GHz | Threads: 2

Package: | Microcode: 0xffffffff | Bogomips: 4607.99

Family: 6 (6h) | Model: 142 (8Eh) | Stepping: 10 (Ah)

Flags: MMX, SSE(1, 2, 3, 3S, 4.1, 4.2), x86-64 | More...

Bugs: Cpu Meltdown, Itlb Multihit, L1TF, Mds, Spec Store Bypass, Spectre V1, Spectre V | More...

**Cache**

Level	Size	Way	Sets
L1 Data	2 x 32 KiB (64 KiB)	8-way	64 sets
L1 Inst.	2 x 32 KiB (64 KiB)	8-way	64 sets
Level 2	2 x 256 KiB (512 KiB)	4-way	1024 sets
Level 3	2 x 3 MiB (6 MiB)	12-way	4096 sets

**Motherboard**

Vendor: Oracle Corporation | Vendor: innotek GmbH

Model: VirtualBox | Version: VirtualBox

Revision: 1.2 | Date: 12/01/2006

**Memory**

(Click "Read all")

Size: | Speed: | Rank: | Type: | Type Detail: |

**CPU usage**

1		2	
User	Nice	System	
IO Wait	IRQ	Soft IRQ	
Steal	Guest	Guest Nice	
LoadAvg	1.54 (77.0%)	4.12 (206.0%)	2.69 (134.5%)

**Memory usage**

Total: 3.84 GiB | Available: 2.74 GiB

**Clocks**

Core	Current	Min	Max
Processor 0			
Core #0	2304 MHz	2304 MHz	2304 MHz
Core #1	2304 MHz	2304 MHz	2304 MHz

**Hardware Monitor**

Core	Current	Min	Max
BAT0-acpi-0			
Voltage			
in0	10.000 V	10.000 V	10.000 V

GST v0.7.4

Snip & Sketch

Snip saved to clipboard

Select here to m

Right Control