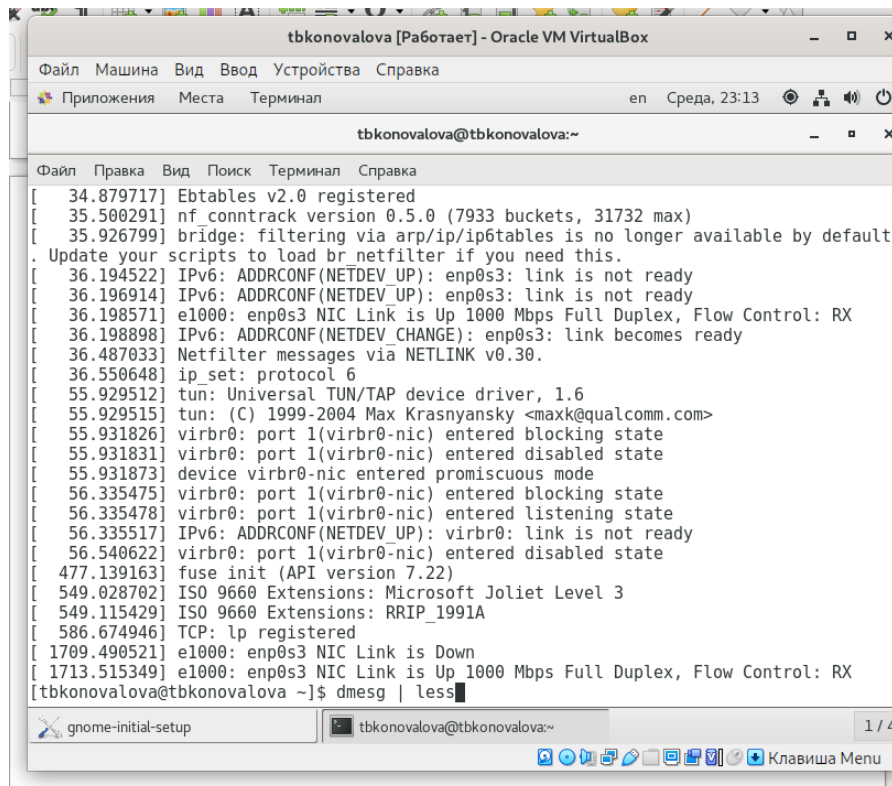


Домашняя работа к лабораторной работе №1

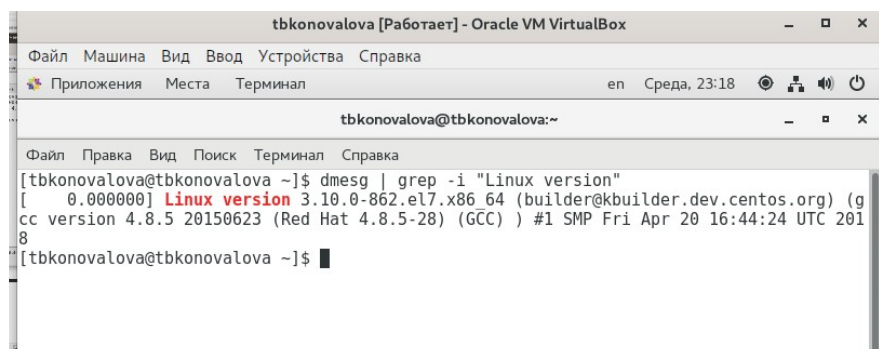
1). Дождалась загрузки графического окружения и открыла терминал. В окне терминала проанализировала последовательность загрузки системы, выполнив команду `dmesg`. Можно просто просмотреть вывод этой команды: `dmesg | less`



```
tbkonovalova [Работает] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
Приложения  Места  Терминал  en  Среда, 23:13
tbkonovalova@tbkonovalova:~
Файл  Правка  Вид  Поиск  Терминал  Справка
[ 34.879717] Ebttables v2.0 registered
[ 35.500291] nf_conntrack version 0.5.0 (7933 buckets, 31732 max)
[ 35.926799] bridge: filtering via arp/ip/ip6tables is no longer available by default
. Update your scripts to load br_netfilter if you need this.
[ 36.194522] IPv6: ADDRCONF(NETDEV_UP): enp0s3: link is not ready
[ 36.196914] IPv6: ADDRCONF(NETDEV_UP): enp0s3: link is not ready
[ 36.198571] e1000: enp0s3 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX
[ 36.198898] IPv6: ADDRCONF(NETDEV_CHANGE): enp0s3: link becomes ready
[ 36.487033] Netfilter messages via NETLINK v0.30.
[ 36.550648] ip_set: protocol 6
[ 55.929512] tun: Universal TUN/TAP device driver, 1.6
[ 55.929515] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 55.931826] virbr0: port 1(virbr0-nic) entered blocking state
[ 55.931831] virbr0: port 1(virbr0-nic) entered disabled state
[ 55.931873] device virbr0-nic entered promiscuous mode
[ 56.335475] virbr0: port 1(virbr0-nic) entered blocking state
[ 56.335478] virbr0: port 1(virbr0-nic) entered listening state
[ 56.335517] IPv6: ADDRCONF(NETDEV_UP): virbr0: link is not ready
[ 56.540622] virbr0: port 1(virbr0-nic) entered disabled state
[ 477.139163] fuse init (API version 7.22)
[ 549.028702] ISO 9660 Extensions: Microsoft Joliet Level 3
[ 549.115429] ISO 9660 Extensions: RRIP_1991A
[ 586.674946] TCP: lp registered
[ 1709.490521] e1000: enp0s3 NIC Link is Down
[ 1713.515349] e1000: enp0s3 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX
tbkonovalova@tbkonovalova ~]$ dmesg | less
```

2). Можно использовать поиск с помощью `grep`: `dmesg | grep -i "то, что ищем"`

a. Версия ядра Linux (Linux version).

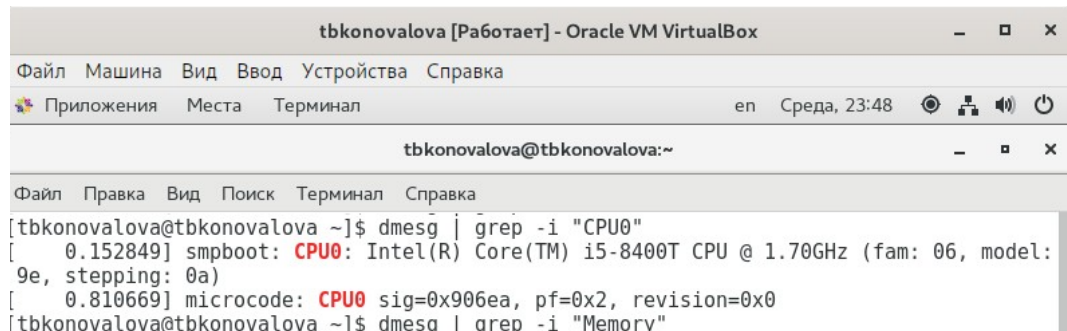


```
tbkonovalova [Работает] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
Приложения  Места  Терминал  en  Среда, 23:18
tbkonovalova@tbkonovalova:~
Файл  Правка  Вид  Поиск  Терминал  Справка
tbkonovalova@tbkonovalova ~]$ dmesg | grep -i "Linux version"
[ 0.000000] Linux version 3.10.0-862.el7.x86_64 (builder@kbuilder.dev.centos.org) (g
cc version 4.8.5 20150623 (Red Hat 4.8.5-28) (GCC) ) #1 SMP Fri Apr 20 16:44:24 UTC 201
8
tbkonovalova@tbkonovalova ~]$
```

b. Частота процессора (Detected Mhz processor).

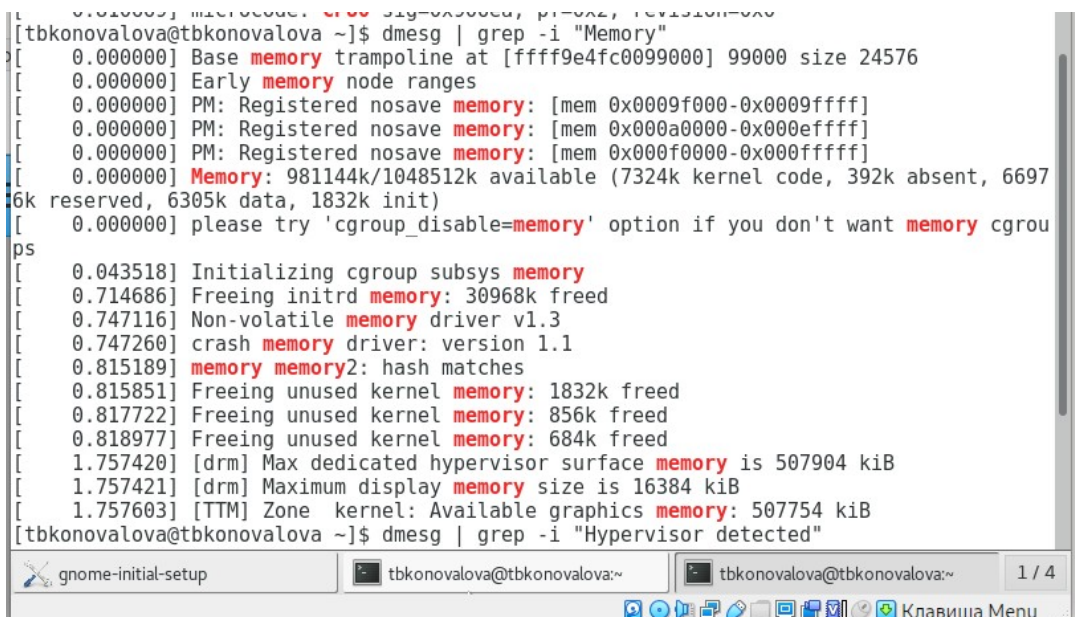
```
8
[tbkonovalova@tbkonovalova ~]$ dmesg | grep -i "MHz"
[ 0.000000] tsc: Detected 1704.000 MHz processor
[ 1.716094] tsc: Refined TSC clocksource calibration: 1703.423 MHz
[ 1.749380] e1000 0000:00:03:0 eth0: (PCI:33MHz:32-bit) 08:00:27:25:f9:69
[tbkonovalova@tbkonovalova ~]$
```

с. Модель процессора (CPU0)



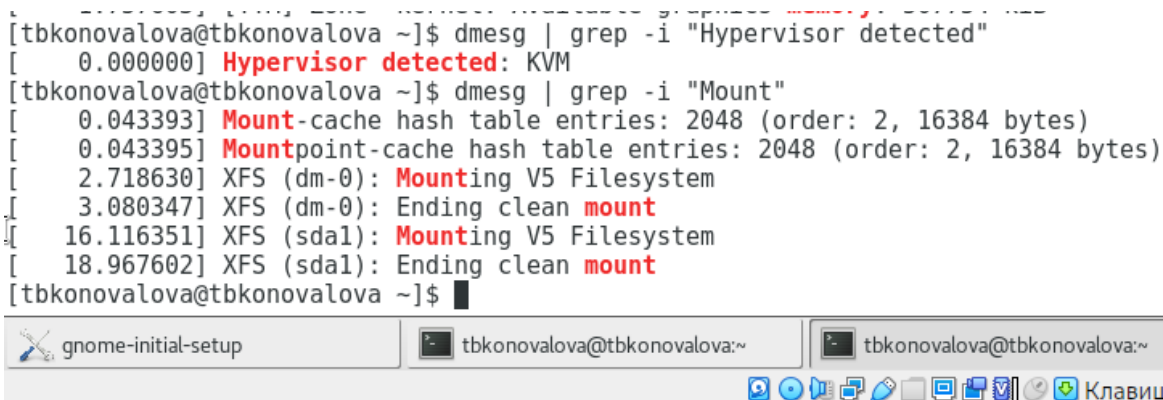
The screenshot shows a terminal window titled "tbkonovalova [Работает] - Oracle VM VirtualBox". The terminal output shows the command `dmesg | grep -i "CPU0"` being executed. The output includes details about the CPU: `0.152849] smpboot: CPU0: Intel(R) Core(TM) i5-8400T CPU @ 1.70GHz (fam: 06, model: 9e, stepping: 0a)` and `0.810669] microcode: CPU0 sig=0x906ea, pf=0x2, revision=0x0`.

d. Объем доступной оперативной памяти (Memory available)



The screenshot shows a terminal window titled "tbkonovalova [Работает] - Oracle VM VirtualBox". The terminal output shows the command `dmesg | grep -i "Memory"` being executed. The output includes details about memory: `0.000000] Base memory trampoline at [ffff9e4fc0099000] 99000 size 24576`, `0.000000] Early memory node ranges`, `0.000000] PM: Registered nosave memory: [mem 0x0009f000-0x0009ffff]`, `0.000000] PM: Registered nosave memory: [mem 0x000a0000-0x000effff]`, `0.000000] PM: Registered nosave memory: [mem 0x000f0000-0x000fffff]`, `0.000000] Memory: 981144k/1048512k available (7324k kernel code, 392k absent, 66976k reserved, 6305k data, 1832k init)`, and `0.000000] please try 'cgroup_disable=memory' option if you don't want memory cgroup`. The terminal also shows the command `dmesg | grep -i "Hypervisor detected"` being executed.

е. Тип обнаруженного гипервизора (Hypervisor detected).



The screenshot shows a terminal window titled "tbkonovalova [Работает] - Oracle VM VirtualBox". The terminal output shows the command `dmesg | grep -i "Hypervisor detected"` being executed. The output includes details about the hypervisor: `0.000000] Hypervisor detected: KVM`. The terminal also shows the command `dmesg | grep -i "Mount"` being executed. The output includes details about the mount: `0.043393] Mount-cache hash table entries: 2048 (order: 2, 16384 bytes)`, `0.043395] Mountpoint-cache hash table entries: 2048 (order: 2, 16384 bytes)`, `2.718630] XFS (dm-0): Mounting V5 Filesystem`, `3.080347] XFS (dm-0): Ending clean mount`, `16.116351] XFS (sda1): Mounting V5 Filesystem`, and `18.967602] XFS (sda1): Ending clean mount`. The terminal also shows the command `dmesg | grep -i "Hypervisor detected"` being executed.

ф. Тип файловой системы корневого раздела. Последовательность монтирования файловых систем

```
[tbkonovalova@tbkonovalova ~]$ dmesg | grep -i "Mount"
[ 0.043393] Mount-cache hash table entries: 2048 (order: 2, 16384 bytes)
[ 0.043395] Mountpoint-cache hash table entries: 2048 (order: 2, 16384 bytes)
[ 2.718630] XFS (dm-0): Mounting V5 Filesystem
[ 3.080347] XFS (dm-0): Ending clean mount
[ 16.116351] XFS (sda1): Mounting V5 Filesystem
[ 18.967602] XFS (sda1): Ending clean mount
[tbkonovalova@tbkonovalova ~]$
```

