UNIVERSIDAD DE LAS FUERZAS ARMADAS-ESPE

SEDE SANTO DOMINGO DE LOS TSÁCHILAS

DEPARTAMENTO DE CIENCIAS DE LA COMPUTACIÓN - DCCO-SS

CARRERA DE INGENIERÍA EN TECNOLOGÍAS DE LA INFORMACIÓN

PERIODO	:	202450 Mayo – Septiembre 2024
ASIGNATURA	:	Sistemas Operativos
TEMA	:	Taller 5
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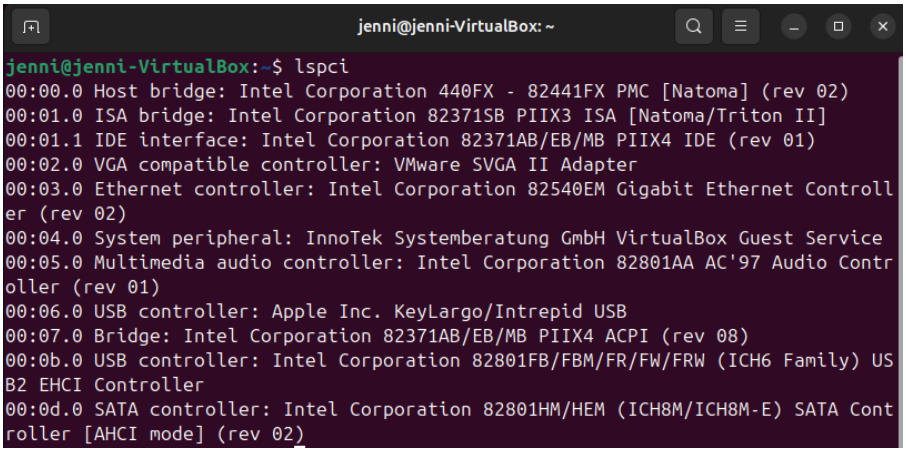
NIVEL-PARALELO - NRC	:	Tercero A
DOCENTE	:	Ing. Javier Cevallos
FECHA DE ENTREGA	:	05/28/2024

SANTO DOMINGO – ECUADOR

1. Marco Teórico

3.1. Información del hardware

Figura 1. Comando lspci



Nota. Muestra información sobre los buses PCI y los dispositivos conectados

Figura 2. Comando Lspci -v

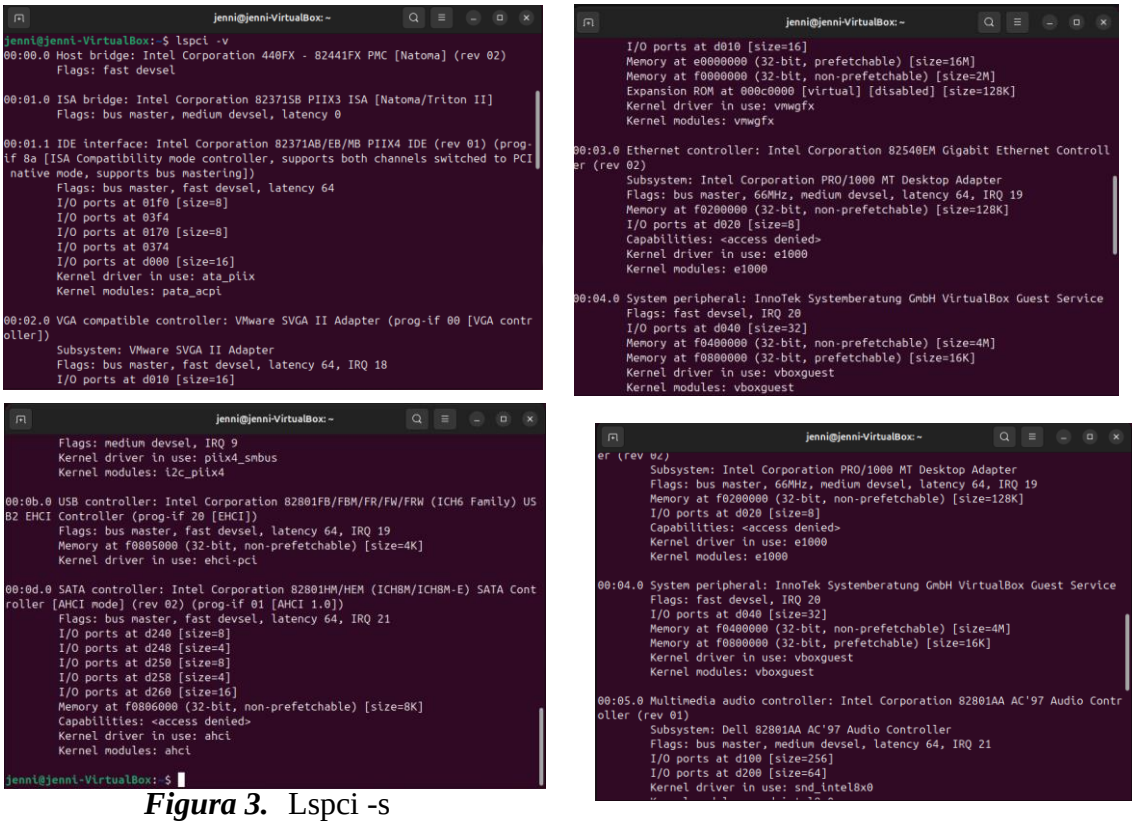
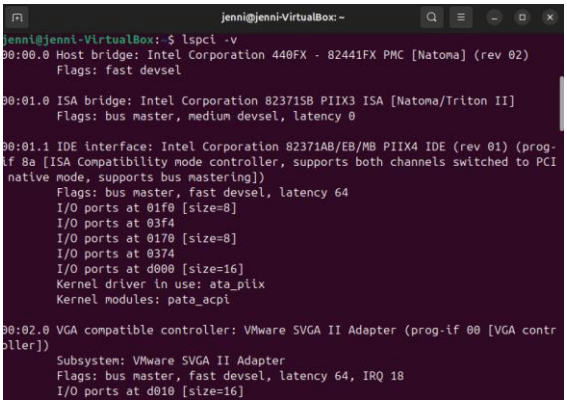
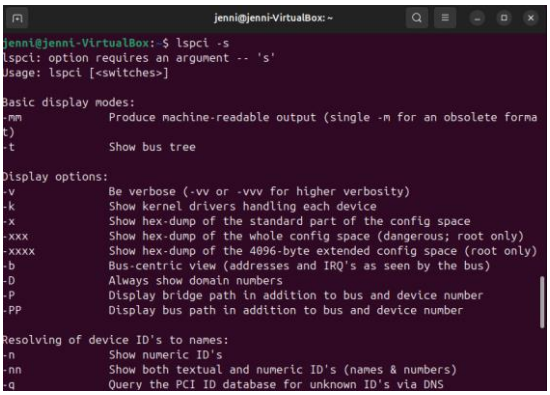


Figura 3. Lspci -s



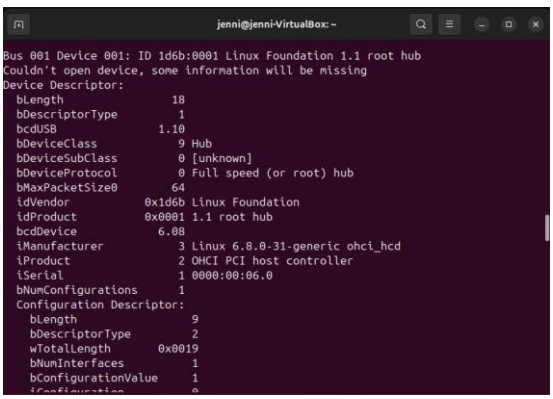
Nota. Muestra información solo del dispositivo seleccionado

Figura 4. lsusb



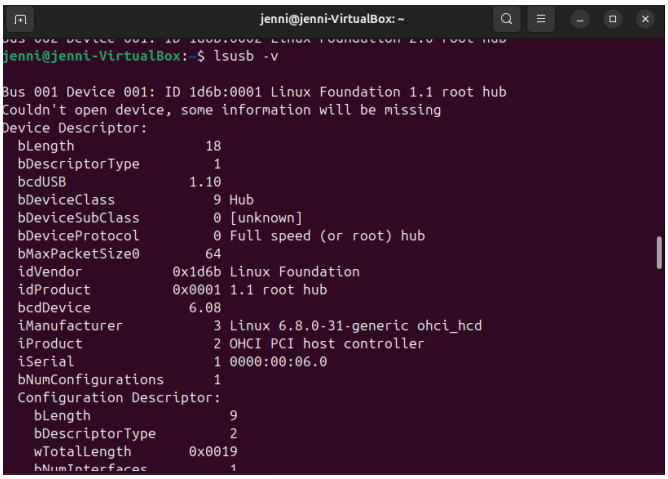
Nota. Muestra información sobre los buses y dispositivos usb conectados

Figura 5. lsusb -v



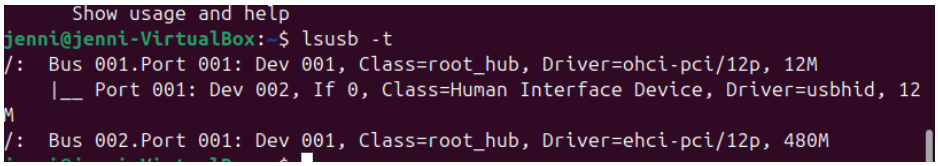
Nota. Muestra más información sobre los buses y dispositivos usb conectados

Figura 6. lsusb -s



Nota. Información de un solo dispositivo

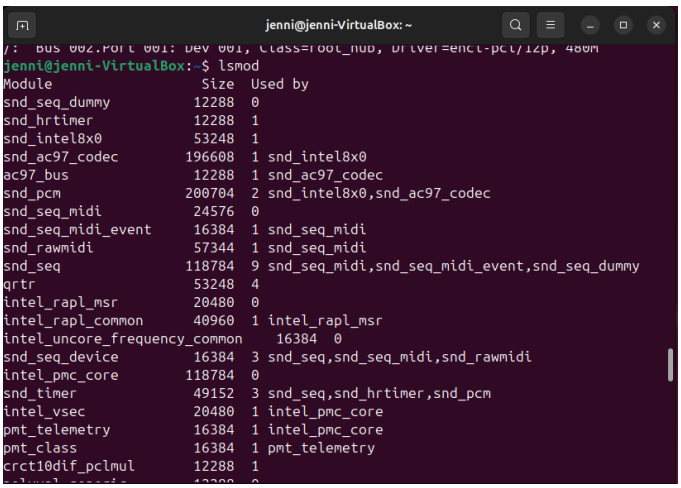
Figura 7. lsusb -t



Nota.

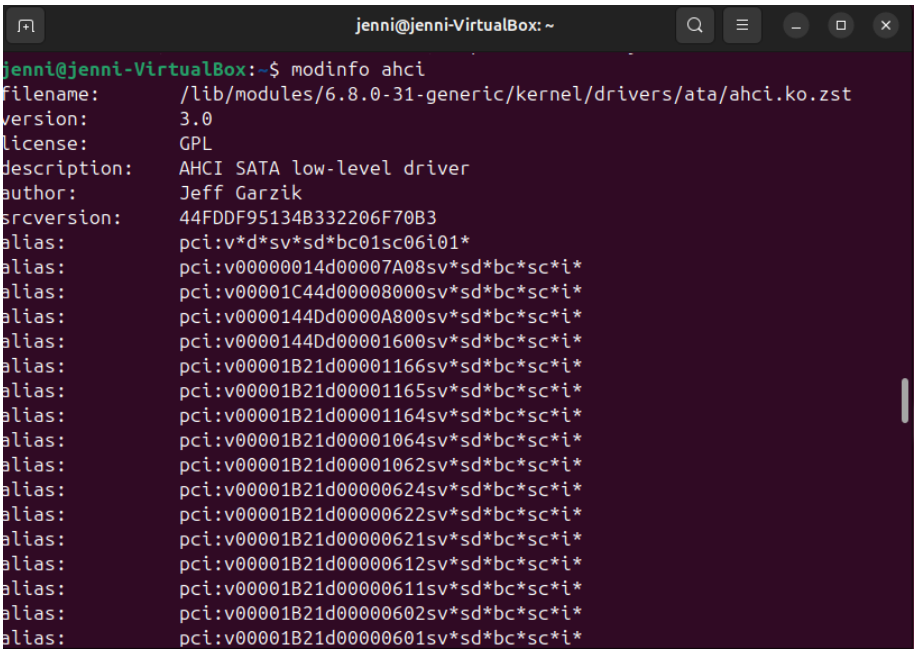
2. Modulos de Kernel de Linux

Figura 8. lsmod



Nota. Muestra módulos cargados en el sistema

Figura 9. Modinfo

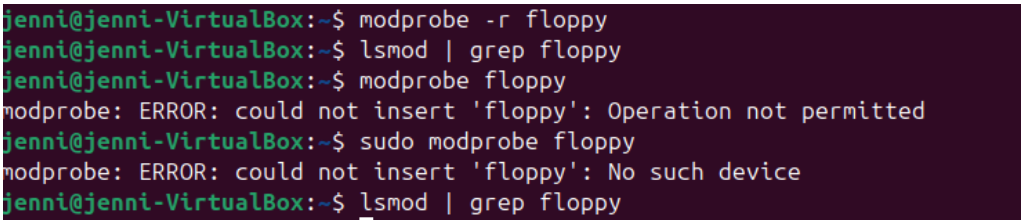


Nota. Amplia la información de un modulo

Figura 10. lsmod

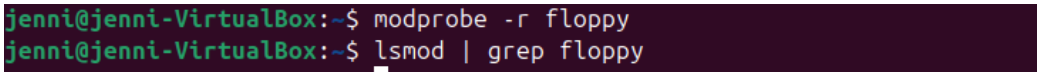
Nota. : Amplia la información de un modulo

Figura 11. modprobe



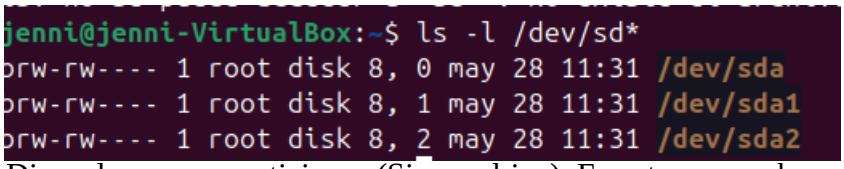
Nota. Carga o borra módulos

Figura 12. modprobe -r



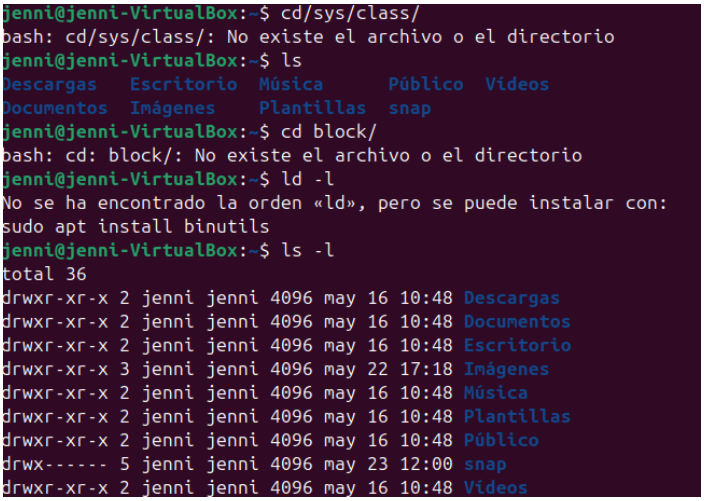
3. *Pendrive USB*

Figura 13. Ls -l sd



Nota. Disco duro y sus particiones (Sin pendrive). En este caso se busca en el directorio actual primero en /dev.

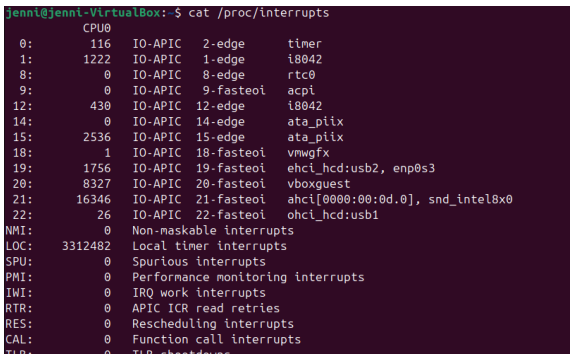
Figura 14. cd /sys/class/ ; ls ; cd block/ ; ls ; ls -l

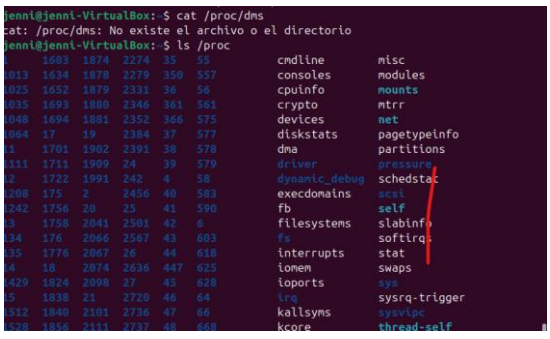


Nota. Formas distintas de ver directorios

4. Sistema Real

Figura 15. Cat /proc/interrupts





Nota. Muestra las interrupciones asociadas, en este caso no srivio el /dms ya que no existe, sin embargo al listar ls /proc me muestra todos los archivos y directorios.

Figura 16. cat /proc/ioports

```
jenni@jenni-VirtualBox:~$ cat /proc/ioports
0000-0000 : PCI Bus 0000:00
  0000-0000 : dma1
  0000-0000 : pic1
  0000-0000 : timer0
  0000-0000 : timer1
  0000-0000 : keyboard
  0000-0000 : keyboard
  0000-0000 : rtc_cmos
    0000-0000 : rtc0
  0000-0000 : dma page reg
  0000-0000 : pic2
  0000-0000 : dma2
  0000-0000 : fpu
  0000-0000 : 0000:00:01.1
    0000-0000 : ata_piix
  0000-0000 : 0000:00:01.1
    0000-0000 : ata_piix
  0000-0000 : 0000:00:01.1
    0000-0000 : ata_piix
```

Nota. Muestra dispositivos

Figura 17. Lspci

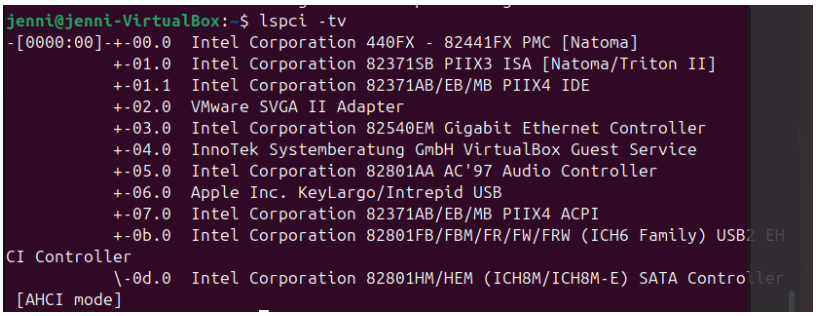
```
jenni@jenni-VirtualBox:~$ lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 82371SB PIIX3 ISA [Natoma/Triton II]
00:01.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:02.0 VGA compatible controller: VMware SVGA II Adapter
00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controll
er (rev 02)
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Contr
oller (rev 01)
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:0b.0 USB controller: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) US
B2 EHCI Controller
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Cont
roller [AHCI mode] (rev 02)
```

Nota. Información sobre los dispositivos conectados

Figura 18. Lspci -s

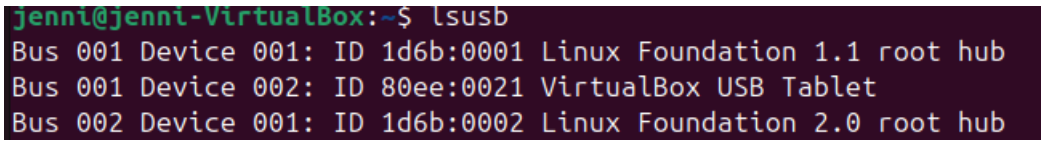
```
jenni@jenni-VirtualBox:~$ lspci -s
lspci: option requires an argument -- 's'
Usage: lspci [<switches>]

Basic display modes:
-mm             Produce machine-readable output (single -m for an obsolete forma
t)
-t              Show bus tree

Display options:
-v              Be verbose (-vv or -vvv for higher verbosity)
-k              Show kernel drivers handling each device
-x              Show hex-dump of the standard part of the config space
-xxx            Show hex-dump of the whole config space (dangerous; root only)
-xxxx           Show hex-dump of the 4096-byte extended config space (root only)
-b              Bus-centric view (addresses and IRQ's as seen by the bus)
-D              Always show domain numbers
-P              Display bridge path in addition to bus and device number
-PP             Display bus path in addition to bus and device number
```

Figura 19. Lspci -tv



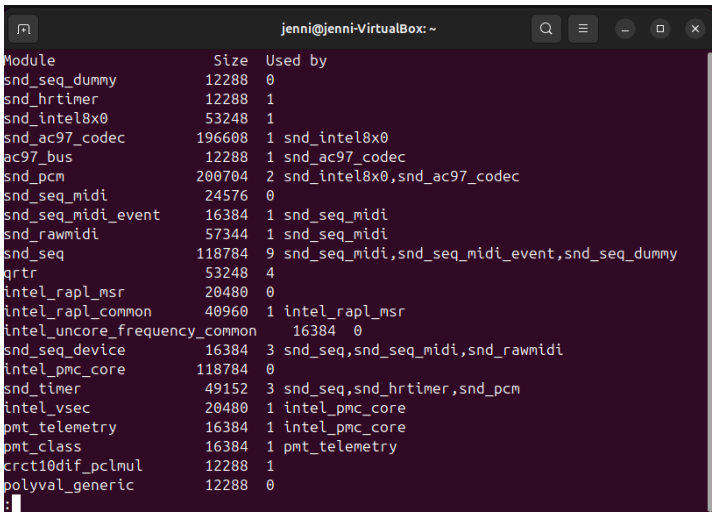
Nota. Muestra un árbol de dispositivos

Figura 20. Lsusb



Nota. Información de buses y dispositivos conectados

Figura 21. Lsmod | less



Nota. Para ver modulos