

tbs@tbs:~\$ lspci -vvnn

00:00.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Root Complex [1022:15d0]
Subsystem: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Root Complex [1022:15d0]
Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:00.2 IOMMU [0806]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 IOMMU [1022:15d1]
Subsystem: Micro-Star International Co., Ltd. [MSI] Raven/Raven2 IOMMU [1462:7b86]
Control: I/O- Mem- BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-
Latency: 0
Interrupt: pin A routed to IRQ 25
Capabilities: <access denied>

00:01.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Family 17h (Models 00h-1fh) PCIe Dummy Host Bridge [1022:1452]
Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:01.2 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 PCIe GPP Bridge [6:0] [1022:15d3] (prog-if 00 [Normal decode])
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin ? routed to IRQ 26
Bus: primary=00, secondary=12, subordinate=28, sec-latency=0
I/O behind bridge: 0000f000-0000ffff [size=4K]
Memory behind bridge: fcc00000-fcefffff [size=3M]
Prefetchable memory behind bridge: [disabled]
Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort+ <SERR- <PERR- BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-
PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-
Capabilities: <access denied>
Kernel driver in use: pcieport

00:01.6 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 PCIe GPP Bridge [6:0] [1022:15d3] (prog-if 00 [Normal decode])
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin ? routed to IRQ 27
Bus: primary=00, secondary=29, subordinate=29, sec-latency=0
I/O behind bridge: [disabled]
Memory behind bridge: fcf00000-fcffffff [size=1M]
Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort+ <SERR- <PERR-
BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-
PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-
Capabilities: <access denied>
Kernel driver in use: pcieport

00:08.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Family 17h (Models 00h-1fh) PCIe Dummy Host Bridge [1022:1452]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:08.1 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Internal PCIe GPP Bridge 0 to Bus A [1022:15db] (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 28

Bus: primary=00, secondary=2a, subordinate=2a, sec-latency=0

I/O behind bridge: 0000e000-0000efff [size=4K]

Memory behind bridge: fc800000-fcbfffff [size=4M]

Prefetchable memory behind bridge: 00000000d0000000-00000000e01fffff [size=258M]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-
BridgeCtl: Parity- SERR+ NoISA- VGA+ VGA16+ MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: <access denied>

Kernel driver in use: pcieport

00:14.0 SMBus [0c05]: Advanced Micro Devices, Inc. [AMD] FCH SMBus Controller [1022:790b] (rev 61)

Subsystem: Micro-Star International Co., Ltd. [MSI] FCH SMBus Controller [1462:7b86]

Control: I/O+ Mem+ BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap- 66MHz+ UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

Kernel driver in use: piix4_smbus

Kernel modules: i2c_piix4, sp5100_tco

00:14.3 ISA bridge [0601]: Advanced Micro Devices, Inc. [AMD] FCH LPC Bridge [1022:790e] (rev 51)

Subsystem: Micro-Star International Co., Ltd. [MSI] FCH LPC Bridge [1462:7b86]

Control: I/O+ Mem+ BusMaster+ SpecCycle+ MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz+ UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

Latency: 0

00:18.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 0 [1022:15e8]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:18.1 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 1 [1022:15e9]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:18.2 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 2 [1022:15ea]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:18.3 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 3 [1022:15eb]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

Kernel driver in use: k10temp

Kernel modules: k10temp

00:18.4 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 4 [1022:15ec]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:18.5 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 5 [1022:15ed]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:18.6 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 6 [1022:15ee]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

00:18.7 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Raven/Raven2 Device 24: Function 7 [1022:15ef]

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-INTx-

12:00.0 USB controller [0c03]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset USB 3.1 XHCI Controller [1022:43d5] (rev 01) (prog-if 30 [XHCI])

Subsystem: ASMedia Technology Inc. 400 Series Chipset USB 3.1 XHCI Controller [1b21:1142]

Control: I/O- Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- Di

sINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 31

Region 0: Memory at fcea0000 (64-bit, non-prefetchable) [size=32K]

Capabilities: <access denied>

Kernel driver in use: xhci_hcd

Kernel modules: xhci_pci

12:00.1 SATA controller [0106]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset SATA Controller [1022:43c8] (rev 01) (prog-if 01 [AHCI 1.0])

Subsystem: ASMedia Technology Inc. 400 Series Chipset SATA Controller [1b21:1062]

Control: I/O- Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin B routed to IRQ 40

Region 5: Memory at fce80000 (32-bit, non-prefetchable) [size=128K]

Expansion ROM at fce00000 [disabled] [size=512K]

Capabilities: <access denied>

Kernel driver in use: ahci

Kernel modules: ahci

12:00.2 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Bridge [1022:43c6] (rev 01) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin C routed to IRQ 30

Bus: primary=12, secondary=20, subordinate=28, sec-latency=0

I/O behind bridge: 0000f000-0000ffff [size=4K]

Memory behind bridge: fcc00000-fcdfffff [size=2M]

Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: <access denied>

Kernel driver in use: pcieport

20:00.0 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port [1022:43c7] (rev 01) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 32

Bus: primary=20, secondary=21, subordinate=21, sec-latency=0

I/O behind bridge: [disabled]

Memory behind bridge: [disabled]

Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-
BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-
PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-
Capabilities: <access denied>
Kernel driver in use: pcieport

20:01.0 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port [1022:43c7] (rev 01)
) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-
INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 34

Bus: primary=20, secondary=22, subordinate=22, sec-latency=0

I/O behind bridge: 0000f000-0000ffff [size=4K]

Memory behind bridge: fcd00000-fcdfffff [size=1M]

Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-
BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: <access denied>

Kernel driver in use: pcieport

20:04.0 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port [1022:43c7] (rev 01)
) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-
INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 35

Bus: primary=20, secondary=25, subordinate=25, sec-latency=0

I/O behind bridge: [disabled]

Memory behind bridge: [disabled]

Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-
BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: <access denied>

Kernel driver in use: pcieport

20:05.0 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port [1022:43c7] (rev 01)
) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-
INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 36

Bus: primary=20, secondary=26, subordinate=26, sec-latency=0

I/O behind bridge: [disabled]

Memory behind bridge: [disabled]

Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-
PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-
Capabilities: <access denied>
Kernel driver in use: pcieport

20:06.0 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port [1022:43c7] (rev 01)
(prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 37

Bus: primary=20, secondary=27, subordinate=27, sec-latency=0

I/O behind bridge: [disabled]

Memory behind bridge: fcc00000-fccffff [size=1M]

Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: <access denied>

Kernel driver in use: pcieport

20:07.0 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port [1022:43c7] (rev 01)
(prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 39

Bus: primary=20, secondary=28, subordinate=28, sec-latency=0

I/O behind bridge: [disabled]

Memory behind bridge: [disabled]

Prefetchable memory behind bridge: [disabled]

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR+ NoISA- VGA- VGA16+ MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: <access denied>

Kernel driver in use: pcieport

22:00.0 Ethernet controller [0200]: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller [10ec:8168] (rev 15)

Subsystem: Micro-Star International Co., Ltd. [MSI] RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller [1462:7b86]

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 33

Region 0: I/O ports at f000 [size=256]

Region 2: Memory at fcd04000 (64-bit, non-prefetchable) [size=4K]

Region 4: Memory at fcd00000 (64-bit, non-prefetchable) [size=16K]

Capabilities: <access denied>

Kernel driver in use: r8169

Kernel modules: r8169

27:00.0 Multimedia controller [0480]: TBS Technologies DVB Tuner PCIe Card [544d:6178]

Subsystem: TBS Technologies (wrong ID) TBS6209 DVB-T2/C2/T/C/ISDB-T OctaTV Tuner [6209:0001]

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 72

Region 0: Memory at fcc00000 (32-bit, non-prefetchable) [size=256K]

Capabilities: <access denied>

Kernel driver in use: TBSECP3 driver

Kernel modules: tbsecp3

29:00.0 Non-Volatile memory controller [0108]: Phison Electronics Corporation E12 NVMe Controller [1987:5012] (rev 01) (prog-if 02 [NVM Express])

Subsystem: Phison Electronics Corporation E12 NVMe Controller [1987:5012]

Control: I/O- Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 59

NUMA node: 0

Region 0: Memory at fcf00000 (64-bit, non-prefetchable) [size=16K]

Capabilities: <access denied>

Kernel driver in use: nvme

Kernel modules: nvme

2a:00.0 VGA compatible controller [0300]: Advanced Micro Devices, Inc. [AMD/ATI] Picasso [1002:15d8] (rev c9) (prog-if 00 [VGA controller])

Subsystem: Advanced Micro Devices, Inc. [AMD/ATI] Picasso [1002:15d8]

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort+ <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 11

Region 0: Memory at d0000000 (64-bit, prefetchable) [size=256M]

Region 2: Memory at e0000000 (64-bit, prefetchable) [size=2M]

Region 4: I/O ports at e000 [size=256]

Region 5: Memory at fcb00000 (32-bit, non-prefetchable) [size=512K]

Expansion ROM at 000c0000 [virtual] [disabled] [size=128K]

Capabilities: <access denied>

Kernel modules: amdgpu

2a:00.1 Audio device [0403]: Advanced Micro Devices, Inc. [AMD/ATI] Raven/Raven2/Fenghuang HDMI/DP Audio Controller [1002:15de]

Subsystem: Micro-Star International Co., Ltd. [MSI] Raven/Raven2/Fenghuang HDMI/DP Audio Controller [1462:9b86]

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-

INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin B routed to IRQ 74
Region 0: Memory at fcb80000 (32-bit, non-prefetchable) [size=16K]
Capabilities: <access denied>
Kernel driver in use: snd_hda_intel
Kernel modules: snd_hda_intel

2a:00.2 Encryption controller [1080]: Advanced Micro Devices, Inc. [AMD] Family 17h (Models 10h-1fh) Platform Security Processor [1022:15df]
Subsystem: Micro-Star International Co., Ltd. [MSI] Family 17h (Models 10h-1fh) Platform Security Processor [1462:7b86]
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- D isINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin C routed to IRQ 69
Region 2: Memory at fca00000 (32-bit, non-prefetchable) [size=1M]
Region 5: Memory at fcb84000 (32-bit, non-prefetchable) [size=8K]
Capabilities: <access denied>
Kernel driver in use: ccp
Kernel modules: ccp

2a:00.3 USB controller [0c03]: Advanced Micro Devices, Inc. [AMD] Raven USB 3.1 [1022:15e0] (prog-if 30 [XHCI])
Subsystem: Micro-Star International Co., Ltd. [MSI] Raven USB 3.1 [1462:7b86]
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- D isINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin D routed to IRQ 47
Region 0: Memory at fc900000 (64-bit, non-prefetchable) [size=1M]
Capabilities: <access denied>
Kernel driver in use: xhci_hcd
Kernel modules: xhci_pci

2a:00.4 USB controller [0c03]: Advanced Micro Devices, Inc. [AMD] Raven USB 3.1 [1022:15e1] (prog-if 30 [XHCI])
Subsystem: Micro-Star International Co., Ltd. [MSI] Raven USB 3.1 [1462:7b86]
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- D isINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin A routed to IRQ 53
Region 0: Memory at fc800000 (64-bit, non-prefetchable) [size=1M]
Capabilities: <access denied>
Kernel driver in use: xhci_hcd
Kernel modules: xhci_pci