

Get to know your GPU

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GPU INFORMATION

`lshw -C display`

`-display`

description: 3D controller

product: GK110BGL [Tesla K40c]

vendor: NVIDIA Corporation

physical id: 0

bus info: pci@0000:21:00.0

version: a1

width: 64 bits

clock: 33MHz

capabilities: busmaster caplist

configuration: driver=nvidia latency=0

resources: irq:114 memory:f9000000-f9ffff memory:d0000000-dfffff memory:ce000000-cfffff

`-display`

description: VGA compatible controller

product: GK110B [GeForce GTX TITAN Black]

vendor: NVIDIA Corporation

physical id: 0

bus info: pci@0000:27:00.0

version: a1

width: 64 bits

clock: 33MHz

capabilities: vgacontroller busmaster caplist rom

configuration: driver=nvidia latency=0

resources: irq:115 memory:fb000000-fbffff memory:f0000000-f7ffff memory:ee000000-efffff ioport:6000(size=128) memory:c0000-dfff

`nvidia-smi -q`

Timestamp : Sun Oct 31 00:22:16 2021
Driver Version : 450.66
CUDA Version : 11.0
Attached GPUs : 2
GPU 00000000:21:00.0
Product Name : Tesla K40c
Product Brand : Tesla
Display Mode : Disabled
Display Active : Disabled
Persistence Mode : Disabled
MIG Mode
Current : N/A
Pending : N/A
Accounting Mode : Disabled
Accounting Mode Buffer Size : 4000
Driver Model
Current : N/A
Pending : N/A
Serial Number : 0320314083160
GPU UUID : GPU-49effda2-3180-7135-0a4e-646b641e1a5b
Minor Number : 0
VBIOS Version : 80.80.3E.00.02
MultiGPU Board : No
Board ID : 0x2100
GPU Part Number : 900-22081-2250-000
Inforom Version
Image Version : 2081.0206.01.04
OEM Object : 1.1
ECC Object : 3.0
Power Management Object : N/A
GPU Operation Mode
Current : N/A
Pending : N/A
GPU Virtualization Mode
Virtualization Mode : None
Host VGPU Mode : N/A
IBMNPU
Relaxed Ordering Mode : N/A
PCI
Bus : 0x21
Device : 0x00
Domain : 0x0000
Device Id : 0x102410DE
Bus Id : 00000000:21:00.0
Sub System Id : 0x098310DE
GPU Link Info
PCIe Generation
Max : 2
Current : 2
Link Width
Max : 16x
Current : 16x
Bridge Chip
Type : N/A
Firmware : N/A
Replays Since Reset : 0
Replay Number Rollovers : 0
Tx Throughput : N/A
Rx Throughput : N/A

GPU 00000000:27:00.0
Product Name : GeForce GTX TITAN Black
Product Brand : GeForce
Display Mode : Disabled
Display Active : Disabled
Persistence Mode : Disabled
MIG Mode
Current : N/A
Pending : N/A
Accounting Mode : Disabled
Accounting Mode Buffer Size : 4000
Driver Model
Current : N/A
Pending : N/A
Serial Number : 0324714053671
GPU UUID : GPU-67d3f479-9dbd-8b87-a6b1-7f7b2e0a4a74
Minor Number : 1
VBIOS Version : 80.80.4E.00.01
MultiGPU Board : No
Board ID : 0x2700
GPU Part Number : N/A
Inforom Version
Image Version : 2083.0031.00.03
OEM Object : 1.1
ECC Object : N/A
Power Management Object : N/A
GPU Operation Mode
Current : All On
Pending : All On
GPU Virtualization Mode
Virtualization Mode : None
Host VGPU Mode : N/A
IBMNPU
Relaxed Ordering Mode : N/A
PCI
Bus : 0x27
Device : 0x00
Domain : 0x0000
Device Id : 0x100C10DE
Bus Id : 00000000:27:00.0
Sub System Id : 0x106610DE
GPU Link Info
PCIe Generation
Max : 2
Current : 2
Link Width
Max : 16x
Current : 16x
Bridge Chip
Type : N/A
Firmware : N/A
Replays Since Reset : 0
Replay Number Rollovers : 0
Tx Throughput : N/A
Rx Throughput : N/A
Fan Speed : 0
Performance State : P0
Clocks Throttle Reasons
Idle : Not Active

Processes : None