

GPU

- [code 43 solved](#)
 - [extract ROM](#)

Prereq

Two graphic cards: A as best card and B card. * To extract ROM from best card mount B card in first slot (16x BOOT card) and A card in second slot * boot and

```
cat /proc/driver/nvidia/gpus/0000\:06\:00.0/information
Model:      GeForce GTX 750 Ti
IRQ:       38
GPU UUID:   GPU-1a843395-eac3-0f8f-11f4-7edbb2a0e088
Video BIOS: 82.07.55.00.1b
Bus Type:   PCIe
DMA Size:   40 bits
DMA Mask:   0xffffffff
Bus Location: 0000:06:00.0
Device Minor: 0
```

```
echo "0000:06:00.0" > /sys/bus/pci/drivers/vfio-pci/unbind
cd /sys/bus/pci/devices/0000\:06\:00.0
echo 1 > rom
cat rom > /opt/vbios.dump
echo 0 > rom
```

</code>

- Install ovfm
- <https://scottlinux.com/2016/03/21/enable-hyper-v-enlightenments-in-kvm-for-better-windows-v-m-performance/>

[/etc/modules](#)

```
vfio
vfio_iommu_type1
vfio_pci
vfio_virqfd
```

```
update-initramfs -u
```

Create VM and customize configuration before start:

- In the "Overview" section, set your firmware to "UEFI" and Q35 BIOS
- In the "Processor" section write CPU model to "host-passthrough"

```
<domain type='kvm' xmlns:qemu='http://libvirt.org/schemas/domain/qemu/1.0'>
...

<features>
  <hyperv>
    <vendor_id state='on' value='123456789ab' />
  </hyperv>
  <kvm>
    <hidden state='on' />
  </kvm>
</features>

  <hostdev mode='subsystem' type='pci' managed='yes'>
    <source>
      <address domain='0x0000' bus='0x01' slot='0x00' function='0x0' />
    </source>
    <rom file='/opt/Palit.GTX750Ti.2048.140702.rom' />
    <address type='pci' domain='0x0000' bus='0x00' slot='0x09'
function='0x0' />
  </hostdev>
  <hostdev mode='subsystem' type='pci' managed='yes'>
    <source>
      <address domain='0x0000' bus='0x01' slot='0x00' function='0x1' />
    </source>
    <address type='pci' domain='0x0000' bus='0x00' slot='0x0a'
function='0x0' />
  </hostdev>

...
  <qemu:commandline>
    <qemu:arg value='-set' />
    <qemu:arg value='device.hostdev0.x-vga=on' />
  </qemu:commandline>
</domain>
```

From:
<https://wiki.csgalileo.org/> - Galileo Labs

Permanent link:
<https://wiki.csgalileo.org/tips/gpu?rev=1480100549>

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