Ryzen 5700G iGPU PCI Passthrough

BIOS

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BIOS

- SVM Mode : Enabled
- Primary Video Adaptor : PEG (External First)
- IOMMU : Enabled
- iGPU Configuration : UMA_AUTO
- CSM : Enabled

.

```
amd_iommu=on iommu=pt video=efifb:off
pcie_acs_override=downstream,multifunction amdgpu.exp_hw_support=1
modprobe.blacklist=amdgpu,snd_hda_intel,ccp
```

RHEL 9 .

```
$ grubby --args="amd_iommu=on iommu=pt video=efifb:off
pcie_acs_override=downstream,multifunction amdgpu.exp_hw_support=1
modprobe.blacklist=amdgpu,snd_hda_intel,ccp" --update-kernel ALL

$ echo "blacklist amdgpu" >> /etc/modprobe.d/pve-blacklist.conf
$ echo "blacklist snd_hda_intel" >> /etc/modprobe.d/pve-blacklist.conf
$ echo "blacklist ccp" >> /etc/modprobe.d/pve-blacklist.conf
```

. lspci -nnD .

```
[root@hev ~]# lspci -nnD
…    …
0000:08:00.0 VGA compatible controller [0300]: Advanced Micro Devices, Inc.
[AMD/ATI] Cezanne [Radeon Vega Series / Radeon Vega Mobile Series]
[1002:1638] (rev c8)
0000:08:00.1 Audio device [0403]: Advanced Micro Devices, Inc. [AMD/ATI]
Renoir Radeon High Definition Audio Controller [1002:1637]
…    …
```

Ryzen 5700G iGPU ID 0000:08:00.0 ID 1002:1638
. 0000:08:00.1 iGPU (

HDMI　DP　　　　　　　　　　　　　　).

　　　　　　　　　　OS　　　　　　　　　　　　　　　　　　　　　　　.

```
[root@hev ~]# driverctl set-override 0000:08:00.0 vfio-pci
[root@hev ~]# driverctl set-override 0000:08:00.1 vfio-pci

[root@hev ~]# driverctl list-overrides
0000:08:00.0 vfio-pci
0000:08:00.1 vfio-pci
```

　　　　　　　　　　　　　　　　　　　　　　　　.

　　　　　　　　　　　　　　　　　　　. SSH　　　　　　　WEB
　　　　　　　　　　　　.

　　　　　　5700G iGPU　firmware

　dmesg

```
[    2.448467] [drm] amdgpu kernel modesetting enabled.
[    2.448554] amdgpu: CRAT table not found
[    2.448556] amdgpu: Virtual CRAT table created for CPU
[    2.448563] amdgpu: Topology: Add CPU node
[    2.457375] [drm:amdgpu_pci_probe [amdgpu]] *ERROR* amdgpu requires
firmware installed
[    2.457547] amdgpu: See https://wiki.debian.org/Firmware for information
about missing firmware
```

　　　　　　amd64-microcode　　　　　　　.

```
root@plex:~# apt install amd64-microcode
```

- renoir_generic_vbios_updgop.zip

- https://gist.github.com/matt22207/bb1ba1811a08a715e32f106450b0418a
- https://www.bilibili.com/video/BV11d4y1G7Nk/

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Last update: **2023/09/24 11:59**