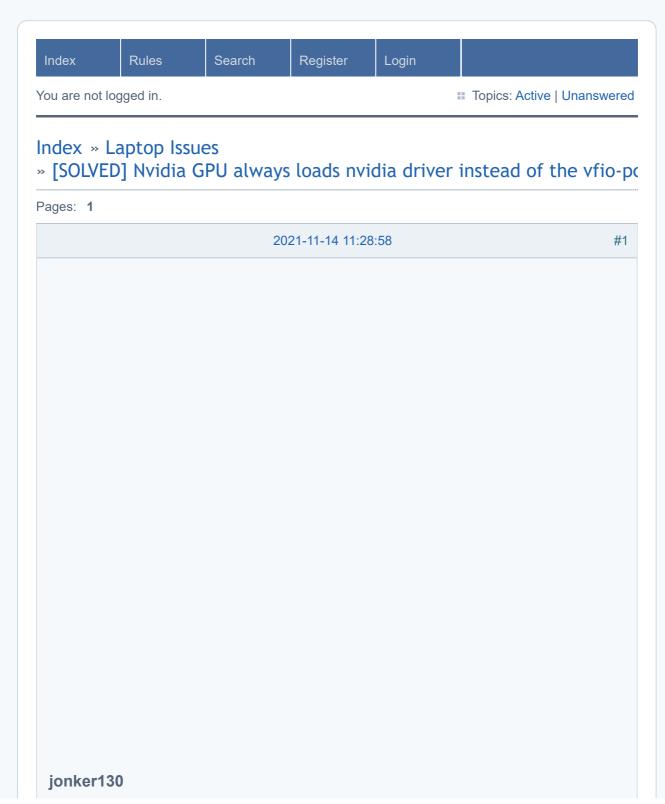
Arch Linux

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Registered: 2021-11-14

Posts: 6

I'm trying to setup gpu passthrough because I want to run a windows 10 vm, I follwed this guide: https://github.com/vanities/GPU-Passthr ... - Windows10 . I am currently at the "Isolating the GPU" part, but my nvidia gpu always loads the nvidia driver instead of the vfio-pci one. (My laptop is the dell q3 3500)

This is how my modules line in mkinitcpio.conf looks like:

MODULES="vfio vfio_iommu_type1 vfio_pci

I tried replacing i915 with nvidia / nouveau / nothing but it didn't work.

This is how the hooks line looks like:

HOOKS="modconf base udev autodetect bloo

This is how my vfio.conf file looks like:

options vfio-pci ids=10de:1f15,10de:10f9

And this is the output of

Kernel modules: processor_therm -00:08.0 System peripheral [0880]: Intel Subsystem: Dell Device [1028:09 00:12.0 Signal processing controller [1 Subsystem: Dell Device [1028:09 Kernel driver in use: intel_pch Kernel modules: intel_pch_therm 00:13.0 Serial controller [0700]: Intel Subsystem: Dell Device [1028:09 Kernel driver in use: intel_ish Kernel modules: intel_ish_ipc 00:14.0 USB controller [0c03]: Intel Co Subsystem: Dell Device [1028:09 Kernel driver in use: xhci_hcd Kernel modules: xhci_pci 00:14.2 RAM memory [0500]: Intel Corpor Subsystem: Dell Device [1028:09 00:14.3 Network controller [0280]: Inte Subsystem: Intel Corporation De Kernel driver in use: iwlwifi Kernel modules: iwlwifi, wl

Last edited by jonker130 (2021-11-14 17:51:21)

Offline

Lone_Wolf 2021-11-14 13:45:49 #2 Member Looks like that guide leaves out several steps ... Use https://wiki.archlinux.org/title/PCI_pa ... h_via_OVMF Post full dmesg output (run as root) and the output of the script in https://wiki.archlinux.org/title/PCI_pa From: Netherlands, Europe ... _are_valid Registered: 2005-10-04 Posts: 11,467 Disliking systemd intensely, but not satisfied with alternatives so focusing on taming systemd. (A works at time B) && (time C > time B) \neq (A works at time C) Offline

2021-11-14 14:14:48

jonker130

#3

Registered: 2021-11-14

Posts: 6

Thanks for the answer! Output of the script:

```
IOMMU Group 0:
        00:00.0 Host bridge [0600]: Int
IOMMU Group 1:
        00:01.0 PCI bridge [0604]: Inte
        01:00.0 VGA compatible controll
        01:00.1 Audio device [0403]: NV
        01:00.2 USB controller [0c03]:
        01:00.3 Serial bus controller
IOMMU Group 2:
        00:02.0 VGA compatible controll
IOMMU Group 3:
        00:04.0 Signal processing contr
IOMMU Group 4:
        00:08.0 System peripheral [0886
IOMMU Group 5:
        00:12.0 Signal processing contr
IOMMU Group 6:
        00:13.0 Serial controller [0700
IOMMU Group 7:
        00:14.0 USB controller [0c03]:
        00:14.2 RAM memory [0500]: Inter
```

Output of

```
sudo dmesg | grep -i -e DMAR -e IOMMU
    0.000000] Command line: BOOT_IMAGE
    0.014935] ACPI: DMAR 0x0000000067F
    0.014962] ACPI: Reserving DMAR tab
    0.038000] Kernel command line: BOO
    0.038040] DMAR: IOMMU enabled
[
    0.038043] Unknown command line par
    0.081360] DMAR: Host address width
    0.081360] DMAR: DRHD base: 0x00000
    0.081364] DMAR: dmar0: reg_base_ad
0.081365] DMAR: DRHD base: 0x00000
    0.081367] DMAR: dmar1: reg_base_ad
    0.081369] DMAR: RMRR base: 0x00000
    0.081370] DMAR: RMRR base: 0x00000
    0.081371] DMAR-IR: IOAPIC id 2 und
    0.081372] DMAR-IR: HPET id 0 under
    0.081373] DMAR-IR: Queued invalida
0.084472] DMAR-IR: Enabled IRQ rem
0.362509] iommu: Default domain ty
    0.362509] iommu: DMA domain TLB ir
    0.454231] DMAR: No ATSR found
```

Offline

Lone Wolf

2021-11-14 14:33:17

#4



From: Netherlands, Europe Registered: 2005-10-04

Posts: 11,467

The iommu groups output don't show issues, although you may have to passthrough the 2 nvidia USB devices also .

The dmesg lacks information , please repost it without any additional parameters, just sudo dmesg

(if it's to big, use a pastebin service)

Welcome to archlinux forums. (didn't realise this is your first post / thread)

Disliking systemd intensely, but not satisfied with alternatives so focusing on taming systemd.

(A works at time B) && (time C > time B) \neq (A works at time C)

Offline

jonker130

2021-11-14 14:55:43

Member

Registered: 2021-11-14

Posts: 6

Thanks for the welcome! (Not only the first post here, I am also pretty new to Linux in general) Anyways, here is the full output:

```
0.000000] Linux version 5.15.2-ard
    0.000000] Command line: BOOT_IMAGE
    0.000000] x86/fpu: Supporting XSAV
    0.000000] x86/fpu: Supporting XSAV
    0.000000] x86/fpu: Supporting XSAV
0.000000] x86/fpu: Supporting XSAV
    0.000000] x86/fpu: Supporting XSAV
    0.000000] x86/fpu: Supporting XSAV
[
    0.000000] x86/fpu: xstate_offset[2
    0.000000] x86/fpu: xstate_offset[3
    0.000000] x86/fpu: xstate_offset[4
[
    0.000000] x86/fpu: xstate_offset[9
0.000000] x86/fpu: Enabled xstate
    0.000000] signal: max sigframe siz
    0.000000] BIOS-provided physical F
[
    0.000000] BIOS-e820: [mem 0x000000
    0.000000] BIOS-e820: [mem 0x000000
    0.000000] BIOS-e820: [mem 0x000000
    0.000000] BIOS-e820: [mem 0x000000
    0.000000] BIOS-e820: [mem 0x000000]
```

Offline

2021-11-14 15:30:12

#6

#5

Lone_Wolf

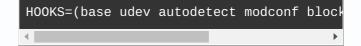


From: Netherlands, Europe Registered: 2005-10-04

Posts: 11,467

there's no sign of vfio being initialised at all in the dmesg, a possible cause is that the hooks order is wrong .

try the default order



I also think it is better to use the modules order listed in wiki



Once you made these changes , regenerate the initramfs , see https://wiki.archlinux.org/title/Mkinit ... generation and reboot.

post fresh lspci-k and dmesg.

Last edited by Lone_Wolf (2021-11-14 15:30:33)

Disliking systemd intensely, but not satisfied with alternatives so focusing on taming systemd.

(A works at time B) && (time C > time B) \neq (A works at time C)

Offline

2021-11-14 15:44:09

#7

jonker130

Registered: 2021-11-14

Posts: 6

I think it worked! The specified Nvidia devices now use the vfio-pci driver.

```
lspci -k
00:00.0 Host bridge: Intel Corporation
        Subsystem: Dell Device 09e1
        Kernel driver in use: skl_uncor
00:01.0 PCI bridge: Intel Corporation 6
        Kernel driver in use: pcieport
00:02.0 VGA compatible controller: Inte
        DeviceName: Onboard - Video
        Subsystem: Dell Device 09e1
        Kernel driver in use: i915
        Kernel modules: i915
00:04.0 Signal processing controller: I
        Subsystem: Dell Device 09e1
        Kernel driver in use: proc_ther
        Kernel modules: processor_therm
00:08.0 System peripheral: Intel Corpor
        Subsystem: Dell Device 09e1
00:12.0 Signal processing controller:
        Subsystem: Dell Device 09e1
        Kernel driver in use: intel_pch
        Kernel modules: intel_pch_therm
```

And the dmesg:

```
0.000000] Linux version 5.15.2-ard
     0.000000] Command line: BOOT_IMAGE
     0.000000] x86/fpu: Supporting XSAV
[
     0.000000] x86/fpu: Supporting XSAV
[
     0.000000] x86/fpu: Supporting XSAV
     0.000000] x86/fpu: Supporting XSAV
[
     0.000000] x86/fpu: Supporting XSAV
[
     0.000000] x86/fpu: Supporting XSAV
     0.000000] x86/fpu: xstate_offset[2
     0.000000] x86/fpu: xstate_offset[3
0.000000] x86/fpu: xstate_offset[4
     0.000000] x86/fpu: xstate_offset[9
     0.000000] x86/fpu: Enabled xstate
     0.000000] signal: max sigframe siz
[
     0.000000] BIOS-provided physical R
     0.000000] BIOS-e820: [mem 0x000000
     0.000000] BIOS-e820: [mem 0x000000
[
     0.000000] BIOS-e820: [mem 0x000006
[
     0.000000] BIOS-e820: [mem 0x000006
     0.000000] BIOS-e820: [mem 0x000000
    0.000000] BIOS-e820: [mem 0x000000
```

I guess now I can continue with the guide you linked me.

(Should I mark this topic as solved?)

