

**Erledigt**

## **Developing ASUS ROG GL553VD**

**Beitrag von „mt-fr“ vom 14. August 2019, 14:10**

Hi .

In this post i hope to develop the Asus ROG GL553vd and fix mac os problems for this laptop.

Clover link in GitHub : <https://github.com/MohammadtaghiFarkhondekar/macOS-Mojave-For-Asus-ROG-GL553VD> .

## **Using Dev-clover for fixing , developing and testing = [Dev-clover.zip](#)**

ioregistryexplorer file : [GL553VD-IOR.zip](#)

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I7 7700HQ

HD 630

GTX1050

FHD

M.2 and SATA

Intel AC WIFI

HDMI

Elan1200

ASUS aura core Keyboard

Realtek Audio card

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Problems need fix :

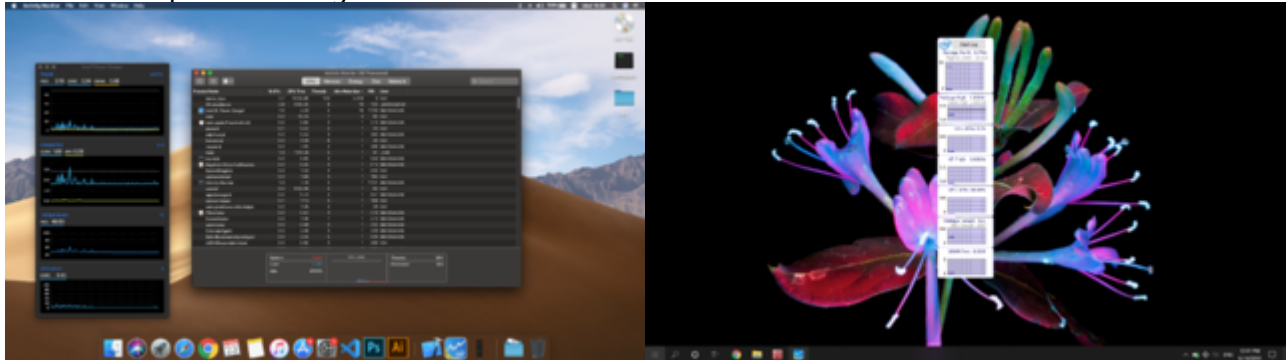
- 1.CPU PKG power using
- 2.Battery number and charging more than 97%
- 3.Clover fastboot **FIXED**
- 4.HDMI audio

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1.CPU PKG using :

Please look img :

in mac OS Cpu base usng is 2.08W !!!!



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2. Battery :

Please look img :

I'm using <https://github.com/acidanthera/VirtualSMC> for show battery number , but it's not right !

In mac OS battery always charge Full (100% ) , it's very bad for battery health but in Win 10 jut charge up to 97% or 96% or stoping charge in other number like 92% !




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3.Clover start up error code show ! **FIXED**

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4.HDMI

HDMI work with hd630 but HDMI audio is not working and i have not it in audio setting when HDMI connecting .

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[anonymous\\_writer](#) [Noir0SX](#) [kuckkuck](#) [al6042](#) , [griven](#)

thank you .

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## Beitrag von „kuckkuck“ vom 14. August 2019, 15:37

How are you regulating your CPU PM? Are you just injecting plugintype=1 or are you using a custom FrequencyVectorConfiguration, injected with CPUFriend or similar?

I think there's a VirtualSMC Extension dedicated to ASUS but I could also twist something here. I think [anonymous\\_writer](#) knows more.

If you are using Apfs.efi as a driver, use APFSDriverLoader.efi instead.

To get HD-Audio you should inject a HDA IOREg property for the GPU and the corresponding HD-Audio device e.g hda-gfx=0 for IGPU and HDAU. You could also use Whatevergreen and Lilu instead.

---

## Beitrag von „mt-fr“ vom 14. August 2019, 15:55

### [Zitat von kuckkuck](#)

How are you regulating your CPU PM? Are you just injecting plugintype=1 or are you using a custom FrequencyVectorConfiguration, injected with CPUFriend or similar?

I think there's a VirtualSMC Extension dedicated to ASUS but I could also twist something here. I think [anonymous\\_writer](#) knows more.

If you are using Apfs.efi as a driver, use APFSDriverLoader.efi instead.

To get HD-Audio you should inject a HDA IOREg property for the GPU and the corresponding HD-Audio device e.g hda-gfx=0 for IGPU and HDAU. You could also use Whatevergreen and Lilu instead.

Alles anzeigen

Hi . Thank you , clover showing error problem fix but other problems ....

My clover now =

<https://www.hackintosh-forum.de/forum/thread/110327-dev-clover-zip/>

ioregistryexplorer file : [GL553VD-IOR.zip](#)

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## Beitrag von „mt-fr“ vom 15. August 2019, 17:22

[anonymous\\_writer](#) [Noir0SX](#) [kuckkuck](#) [al6042](#) [griven](#) [vit9696](#) please help .thank you.

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### Beitrag von „anonymous\_writer“ vom 16. August 2019, 09:26

What are the other problems ....?

Nobody can help without knowing this problems.

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### Beitrag von „mt-fr“ vom 16. August 2019, 10:28

[Zitat von anonymous writer](#)

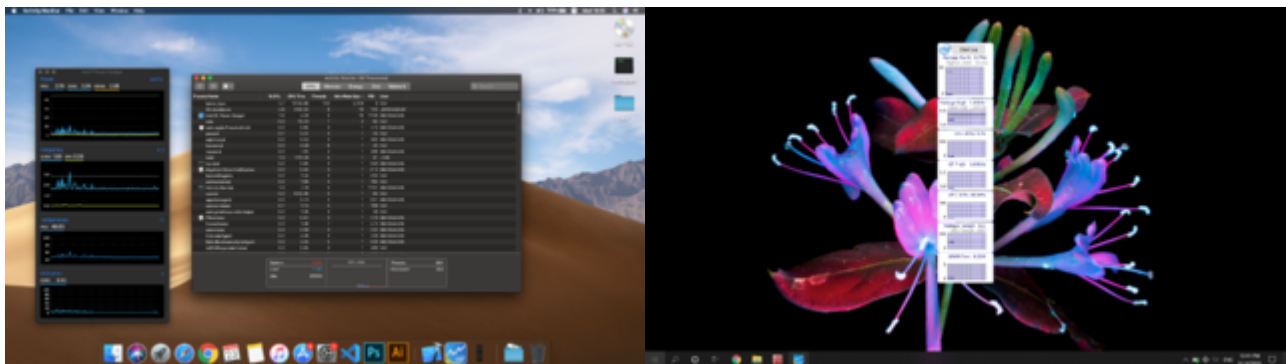
What are the other problems ....?

Nobody can help without knowing this problems.

1.CPU PKG using problem :

Please look img :

in mac OS CPU base using is 2.08W and it's very high power using !!!!



## 2. Battery number problem :

Please look img :

I'm using <https://github.com/acidanthera/VirtualSMC> for show battery number , but it doesn't show right battery number !

In mac OS battery always charge Full (100% ) , it's very bad for battery health but in Win10 just charge up to 97% or 96% or stoping charge in other number like 92% !



---

## 3.HDMI

HDMI work with hd630 but HDMI audio is not working and i have not it in audio setting when HDMI connecting .

---

## Beitrag von „anonymous\_writer“ vom 16. August 2019, 11:13

I've already asked for this, but what do you see when you are using this tool? > CPUFriend.kext  
+ CPUFriendDataProvider.kext

<https://github.com/stevezhengshiqi/one-key-cpufriend>

## Beitrag von „mt-fr“ vom 16. August 2019, 11:21

### [Zitat von anonymous writer](#)

I've already asked for this, but what do you see when you are using this tool? >  
CPUFriend.kext + CPUFriendDataProvider.kext

<https://github.com/stevezhengshiqi/one-key-cpufriend>

I used it , but it doesn't work ! My clover with it ,

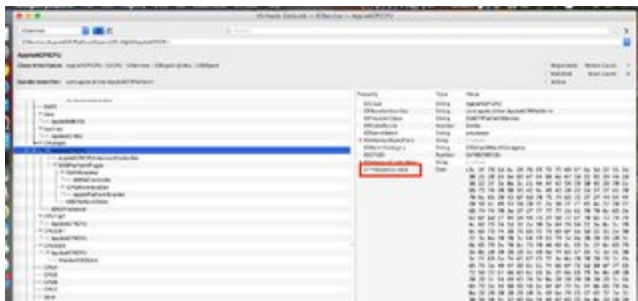
I selected power saving mode in CPCPUFriendDataProvider.kext but .... CPU PKG use 2.08W again

I attachment my clover with that kext ... + screenshoot  
[anonymous writer](#) Now I attachment ioregistryexplorer file .

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## Beitrag von „anonymous\_writer“ vom 16. August 2019, 11:38

Does the EFI from post [#8](#) generate this red marked entry? If not, the two kexts CPUFriend.kext + CPUFriendDataProvider.kext are not loaded correctly.



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## Beitrag von „mt-fr“ vom 16. August 2019, 11:40

[Zitat von anonymous writer](#)

Does the EFI from post [#8](#) generate this red marked entry? If not, the two kexts CPUFriend.kext + CPUFriendDataProvider.kext are not loaded correctly.

Oh , how can I fix it ?

oooooooooooh, look !!!

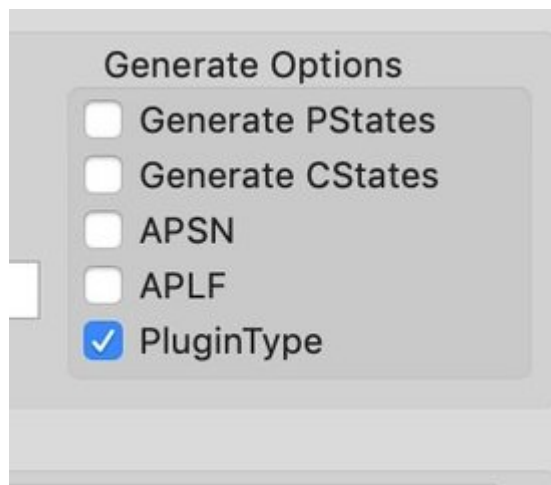
I removed all of the DSDT to Patches in config and loud agin ...

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[Zitat von anonymous writer](#)

Unfortunately, I have no idea. Always worked for me.

Will it load without this button?



Remove this ?

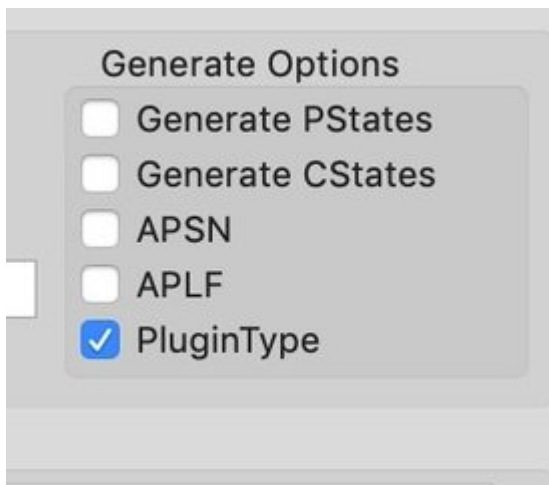
[anonymous\\_writer](#)



## Beitrag von „anonymous\_writer“ vom 16. August 2019, 11:46

Unfortunately, I have no idea. Always worked for me.

Will it load without this button?



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## Beitrag von „mt-fr“ vom 16. August 2019, 11:52

[Zitat von mt-fr](#)

Oh , how can I fix it ?

oooooooooh, look !!!

I removed all of the DSDT to Paches in config and loud agin ...

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Remove this ?

[anonymous\\_writer](#)

Alles anzeigen

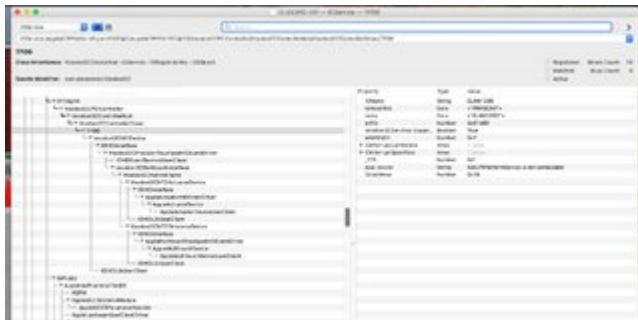
Just look ! I think I find problem ! When I removed

Change\_OS to XOSI for touchpad CPU looks like ok ! But touchpad doesn't working ...

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### Beitrag von „anonymous\_writer“ vom 16. August 2019, 12:46

What have you changed from IOREG Post [#3](#) to now? In Post [#3](#) Trackpad seems to work.



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### Beitrag von „mt-fr“ vom 16. August 2019, 12:49

[Zitat von anonymous writer](#)

What have you changed from IOREG Post [#3](#) to now? In Post [#3](#) Trackpad seems to work.



NO please look post [Developing ASUS ROG GL553VD](#), after remove Change\_OS to XOSI touchpad doesn't working but cpu using look ok

"

Just look ! I think I find problem ! When I removed

Change\_OS to XOSI for touchpad CPU looks like ok ! But touchpad doesn't working ...

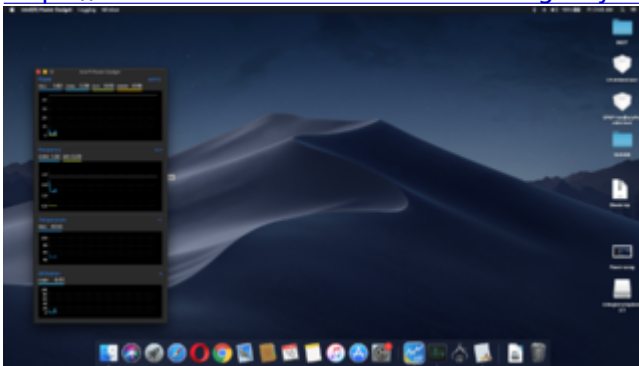
"

"

oooooooooh, look !!!

I removed all of the DSDT to Paches in config and loud agin ...

<https://www.hackintosh-forum.d...5-ioregistryexplorer-zip/>

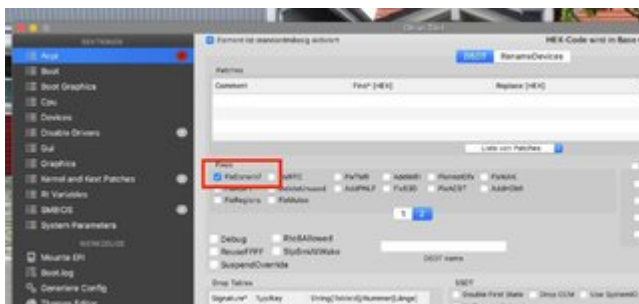
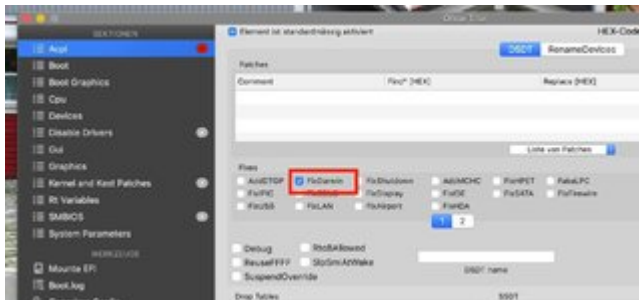


"

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**Beitrag von „anonymous\_writer“ vom 16. August 2019, 12:59**

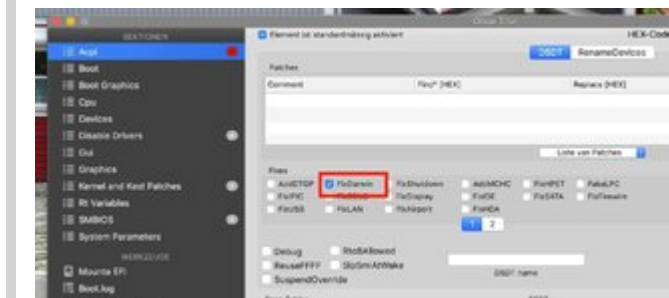
Test it with one of this to buttons.

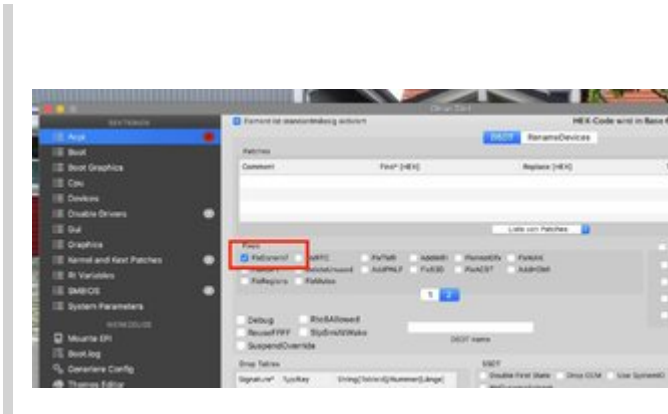


Beitrag von „mt-fr“ vom 16. August 2019, 13:07

[Zitat von anonymous writer](#)

Test it with one of this to buttons.





I tested + touchpad patching (Change\_OS to XOSI) active = CPU use 2.08W .

I think we need GPIO patching for touchpad CPU using

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### Beitrag von „anonymous\_writer“ vom 16. August 2019, 13:27

GPIO will also not work without OSI patch. You need right OSI patch.

Remove all OSI patches and try this DSDT patch.

[https://github.com/alexandred/...er/Windows/Windows\\_10.txt](https://github.com/alexandred/...er/Windows/Windows_10.txt)

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### Beitrag von „mt-fr“ vom 16. August 2019, 13:28

[Zitat von anonymous writer](#)

GPIO will also not work without OSI patch. You need right OSI patch.

Remove all OSI patches and try this DSDT patch.

[https://github.com/alexandred/...er/Windows/Windows\\_10.txt](https://github.com/alexandred/...er/Windows/Windows_10.txt)

how can i use it ?

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### **Beitrag von „anonymous\_writer“ vom 16. August 2019, 13:32**

Use MaciASL to patch your original DSDT with this patch file.

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### **Beitrag von „mt-fr“ vom 16. August 2019, 13:32**

[Zitat von anonymous writer](#)

Use MaciASL to patch your original DSDT with this file.

[ACPI.zip](#)

i can't do it , it show error .

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### **Beitrag von „anonymous\_writer“ vom 16. August 2019, 13:37**

Maybe I can help you

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### Beitrag von „mt-fr“ vom 16. August 2019, 13:43

[Zitat von anonymous writer](#)

Maybe I can help you

Thank you . i test it , touchpad doesn't working .

i removed SSDT-XOSI.aml

but Change\_OS to XOSI is active in config file

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### Beitrag von „anonymous\_writer“ vom 16. August 2019, 13:48

Remove als Change\_OS to XOSI. Otherwise this change have no effect in the DSDT.

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### Beitrag von „mt-fr“ vom 16. August 2019, 13:51

[Zitat von anonymous writer](#)

Remove als Change\_OS to XOSI. Otherwise this change have no effect in the DSDT.

Now touchpad working but cpu use 2w agin

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### Beitrag von „mt-fr“ vom 31. August 2019, 10:47

HDMI audio FIXED !

Clover error showing FIXED !

## CPU PKG using , Battery number

,  
**100 Series/C230 Series Chipset Family Thermal Subsystem ,**

**Xeon E3-1200 v5/v6 / E3-1500 v5 / 6th/7th Gen Core Processor Gaussian Mixture Model**

need helping ....

Clover file : <https://github.com/Mohammadtag...ee/master/V8%20-%20CLOVER>

[anonymous\\_writer](#) [Noir0SX](#) [kuckkuck](#) [al6042](#) [griven](#) [vit9696](#) please help .thank you.

---

### **Beitrag von „mt-fr“ vom 14. September 2019, 07:06**

I think Nvidia doesn't turn off Properly ! Because when I opened????? the back door of laptop when laptop was on , I touched the Nvidia and I saw Nvidia is hot ! It means it use power in ?background and this power show in CPU PKG power using !

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### **Beitrag von „kuckkuck“ vom 14. September 2019, 15:43**

How did you deactivate it?

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### **Beitrag von „mt-fr“ vom 14. September 2019, 16:08**

[Zitat von kuckkuck](#)

How did you deactivate it?

with this SSDT file

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### **Beitrag von „kuckkuck“ vom 14. September 2019, 16:21**

Does the GPU still show up in IOReg?

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### **Beitrag von „mt-fr“ vom 14. September 2019, 16:33**

[Zitat von kuckkuck](#)

Does the GPU still show up in IOReg?

my IOReG file

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### **Beitrag von „kuckkuck“ vom 14. September 2019, 16:37**

I cant check it atm. Can you check yourself?

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### **Beitrag von „mt-fr“ vom 14. September 2019, 16:41**

[Zitat von kuckkuck](#)

I cant check it atm. Can you check yourself?

I don't know which id is for Nvidia 1050 in file

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### **Beitrag von „kuckkuck“ vom 14. September 2019, 17:07**

Well then I'll just check when I'll have time again, probably tomorrow.

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### **Beitrag von „DSM2“ vom 14. September 2019, 18:07**

I see only the iGPU.

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### **Beitrag von „mt-fr“ vom 14. September 2019, 19:08**

[Zitat von DSM2](#)

I see only the iGPU.

Thank you for checking .Do you know why my cpu use more power and why gtx1050 is hot ?

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### **Beitrag von „kuckkuck“ vom 14. September 2019, 19:10**

Is that the case only after Sleep and Wake or also if you just start up and use your laptop normally? Please also attach all your vanilla ACPI tables for me to take a look, maybe you didn't implement \_OFF correctly through your SSDT. Is there an option in BIOS to deactivate the dedicated GPU?

---

### **Beitrag von „mt-fr“ vom 14. September 2019, 19:26**

[Zitat von kuckkuck](#)

Is that the case only after Sleep and Wake or also if you just start up and use your laptop normally? Please also attach all your vanilla ACPI tables for me to take a look,

maybe you didn't implement \_OFF correctly through your SSDT. Is there an option in BIOS to deactivate the dedicated GPU?

ok . i'm going to get original dsdt file with clover and send it . no i haven't any option for GTX in bios .

file add

---

### Beitrag von „kuckkuck“ vom 14. September 2019, 19:31

Please don't quote whole posts, there's no point 😊

[Zitat von kuckkuck](#)

Is that the case only after Sleep and Wake or also if you just start up and use your laptop normally?

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### Beitrag von „mt-fr“ vom 14. September 2019, 19:35

[kuckkuck](#)

after start laptop : 2.20W cpu pkg power using =! it's more than pkg power using in windows when GTX is off , in windows 10 just 0.5W when GTX is off  
after sleep and wake from sleep : 5.5W cpu pkg power using = when GTX turn on power using = when in windows 10 use GTX

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### Beitrag von „kuckkuck“ vom 14. September 2019, 19:50

[Zitat von mt-fr](#)

after start laptop : 2.20W cpu pkg power using =! it's more than pkg power using in

windows when GTX is off , in windows 10 just 0.5W when GTX is off

But it's still less then when GPU is on, right? That means that the GPU must be deactivated at this point, maybe your CPU PM isn't set up correctly, but thats another issue. If the CPU usage goes up after sleep, your GTX appearently reactivates after sleep. You can fix this in ACPI using \_PTS and \_WAK to trigger an activation of the GPU before and a deactivation after sleep. Do you know how to do this?

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### **Beitrag von „mt-fr“ vom 14. September 2019, 19:53**

@[kuckkuck](#)

yes , right .GPU power using show in CPU pkg power using . I think always GTX is on because cpu use more power than windows but frequency is right .no i don't know how can i fix .

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### **Beitrag von „kuckkuck“ vom 14. September 2019, 20:25**

Look at this [Guide](#), if you can follow it try it out if not I will implement it for you.

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### **Beitrag von „mt-fr“ vom 14. September 2019, 20:31**

[Zitat von kuckkuck](#)

Look at this [Guide](#), if you can follow it try it out if not I will implement it for you.

i did it , it never work for me because when i idid it my laptop FAN go to max speed! i tried it last year... after that i made my DGPU ssdt for turnoff GTX

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### **Beitrag von „kuckkuck“ vom 14. September 2019, 21:06**

The SSDT does the same thing as the methods used in the Guide. But I'll have a look tomorrow...

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### Beitrag von „kuckkuck“ vom 15. September 2019, 14:41

Well, it's a little complicated. You can try the attached SSDT but make sure to implement the following Renames, otherwise it won't work!

Spoiler anzeigen

change_WAK to XWAK	5F57414B	5857414B
change_PTS to XPTS	5F505453	58505453

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### Beitrag von „mt-fr“ vom 15. September 2019, 18:27

@[kuckkuck](#)

thank you . now after sleep GTX is off and cpu pkg use 2.20W but laptop fan work with MAX speed !!

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### Beitrag von „kuckkuck“ vom 15. September 2019, 18:36

Well that makes no sense... The Laptop Fan or the GPU Fan?

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### Beitrag von „mt-fr“ vom 15. September 2019, 18:37

gl553vd has just one fan !

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### **Beitrag von „kuckkuck“ vom 15. September 2019, 18:43**

Is the GPU only off after Sleep or also after the initial startup? Please check IOREG.

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### **Beitrag von „mt-fr“ vom 15. September 2019, 18:47**

yes . it was off after sleep but fan speed was problem . now i fixed it .

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### **Beitrag von „kuckkuck“ vom 15. September 2019, 18:56**

[Zitat von mt-fr](#)

now i fixed it .

And destroyed sleep again...

Try this one:

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### **Beitrag von „mt-fr“ vom 15. September 2019, 19:04**

cpu pkg using is 2.20w after and before sleep , it means gtx is off but fan work with MAX speed agin .

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### **Beitrag von „kuckkuck“ vom 15. September 2019, 19:06**

Weird... Try this:

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### **Beitrag von „mt-fr“ vom 15. September 2019, 19:22**

before sleep fan is ok but after wake from sleep fan speed is MAX

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### **Beitrag von „kuckkuck“ vom 15. September 2019, 19:26**

I didn't know about that PG00 Fan stuff... Interesting.

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### **Beitrag von „mt-fr“ vom 15. September 2019, 19:35**

its ROG work with laptop , it make very bad laptop with very bad Nvidia card . now fan is ok . but cpu pkg use 2.44W.

i think this laptop has PG01 and PG02 and they need to be off  
my IOREg now :[Mt's MacBook Pro.zip](#)

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### **Beitrag von „kuckkuck“ vom 15. September 2019, 19:36**

[Zitat von mt-fr](#)

but cpu pkg use 2.44W.

Nvidia should be off now but check Temps... I guess its badly configured PM... Did you try something like this? [SMBIOS iMac17,1 / Skylake i76700K und Powermanagement - wie funktioniert es richtig?](#)

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### Beitrag von „mt-fr“ vom 15. September 2019, 19:38

[Zitat von kuckkuck](#)

Nvidia should be off now but check Temps... I guess its badly configured PM... Did you try something like this? [SMBIOS iMac17,1 / Skylake i76700K und Powermanagement - wie funktioniert es richtig?](#)

use imac 17.1 for smbios ?

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### Beitrag von „kuckkuck“ vom 15. September 2019, 19:41

MacBookPro14,3 uses i7 7700HQ.

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### Beitrag von „mt-fr“ vom 15. September 2019, 19:44

When I use 14.3 HDMI doesn't working

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### Beitrag von „kuckkuck“ vom 15. September 2019, 19:46

Do you use WEG?

You should select your SMBios carefully but I would recommend using a Laptop, not a Desktop Mac SMBIOS! You can inject the MacBookPro14,3 PowerProfile using CPUFriend and modify it with FreyVecs.sh as well as manually.

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### Beitrag von „mt-fr“ vom 15. September 2019, 19:59



my clover : [CLOVER.zip](#) and IOReg for it when i using 14.3 but HDMI doesn't working :[14.3.zip](#)

IOReg when i use 14.1 or 14.2 and HDMI work with that clover file : [Mt's MacBook Pro.zip](#)

but when i use iMAC 17.1 .... cpu work veeeerrry bad ! stop on 3.4GHZ and 4W but my battery number was ok ! and battery was show 96% instead 97% in bios but when i use macbook pro 14.1 or 14.2 or 14.3 show 100% !! IOReg for it when battery number was ok = [battery is right.zip](#)

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### **Beitrag von „kuckkuck“ vom 15. September 2019, 20:21**

Well then you need to fix your ACPI properly regarding BAT0 etc. You can use 14.1 and inject customized 14.3 FrequencyVectors using CPUFriend.

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### **Beitrag von „mt-fr“ vom 15. September 2019, 20:27**

How can I fix battery with that SSD ?

I think CPU friend doesn't control my CPU because when I removed it CPU work some .

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### **Beitrag von „kuckkuck“ vom 16. September 2019, 10:09**

You have to patch your ACPI accordingly. There's a lot of guides on the Internet on how to patch Bat on Hackintosh, if you are stuck at some point just tell us about it here.

Also you need to configure CPUFriend properly, otherwise it won't do anything...

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### **Beitrag von „mt-fr“ vom 21. September 2019, 21:24**

I have problem with opencore , it shows this error and after that shows black screen.

my clover : [CLOVER.zip](#)

my open core : <https://www.hackintosh-forum.de/attachment/112866-efi-zip/>

[112872-img-20190917-223416-jpg](#)

Image not found or type unknown

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### **Beitrag von „ejtun91“ vom 13. Januar 2020, 00:22**

Hi,

I have this laptop(actually gl753vd), can you give me some tutorials how to install macOS on usb, cause I'm noob(like where to download macOS, what tools to use for windows etc, thanks..). I'm planning to install it on external ssd.