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[Fix] Intel HD Graphics 4200/4400/4600 on macOS 10.12.x and Later

EliteMacx86 · Sep 4, 2018 ·  10.12  4200  4400  4600  fix  guide  how to  intel hd graphics 520

macos

sierra

**EliteMacx86**Administrator 

Sep 4, 2018

 #1

macOS supports a wide range of Intel HD Graphics (also referred to as iGPU) but some of them might not work out of the box.

This guide will enable Full QE/CI on your Hackintosh.

This fix is for the Hackintosh users who are using Intel HD Graphics as the main GPU.

Before you start with this guide, please know something about the performance. Graphics enhance the performance and helps to work smoothly. In macOS, full acceleration requires that both Quartz Extreme and Core Image (QE/CI) should work together.

Quartz Extreme and Core Image (QE/CI) should work together to enable full acceleration on macOS's GUI. It utilizes the complete Graphics capabilities. In case if you haven't enabled QE/CI on your graphic card, you won't be able to use your macOS smoothly and there would be lots of lags and artifacts, graphic related issues and poor refresh rate. Also the dock would not be transparent. Therefore it is very important to ensure that your graphic is working with full QE/CI.

Requirements:

- Intel HD Graphics 4200, 4400 and 4600
- Original Graphics kexts in S/L/E
- macOS Sierra 10.12.0 or later

Step 1

BIOS Setting:

The very first step is to setup your BIOS. This guide will only include settings for Intel HD users.

To access your BIOS/UEFI, press and hold Delete key on your Keyboard. The key maybe different in your case. Refer to your laptop Guide/Manual.

The BIOS in laptops has very less options. If the option is available for Graphics, set DVMT to 64MB

Save & Exit Setup.

Step 2

Mount EFI Partition:

1. Mount EFI Partition of your system drive.

Step 3

Edit your config.plist file:

1. The next step is to edit your config.plist file and make necessary edits.
2. Navigate to **EFI\Clover** and open your **config.plist** with Clover Configurator.
3. Navigate to **Acpi** tab and add the following patch in **DSDT** section of your **config.plist**.

Code:

change GFX0 to IGPU

Comment	Find* [HEX]	Replace [HEX]	Disabl...
change GFX0 to IGPU	47465830	49475055	<input type="checkbox"/>

4. Navigate to Boot tab and check the following :

- Check **nv_disable=1** box

Arguments

Verbose (-v) arch=i386 arch=x86_64 npci=0x2000 npci=0x3000

darkwake slide=0 -xcpm cpus=1 dart=0 debug=0x100

-gux_defer_usb2 -gux_no_idle -gux_nosleep -gux_nomsi

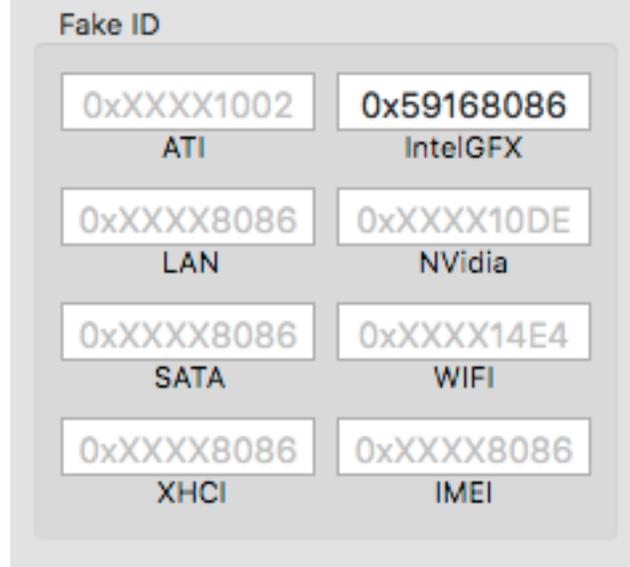
nvda_drv=1 nv_disable=1 nv_spanmodepolicy=1 keepsyms=1

kext-dev-mode=1 rootless=0 kextlog=0xffff -alcoff -shikioff

-disablegfxfirmware

Custom Flags

5. Navigate to **Devices** section and then **Fake ID** section.
6. Under **Intel GFX** column, select the existing values and delete it, if any.
7. Under **Intel GFX** column, type **0x04128086**



8. Navigate to **Graphics** tab and add the following:

- Check **Inject Intel** box
- ig-platform-id: **0x0a260006**

[View attachment 705](#)

9. Save your **config.plist** file.

Step 4: Download the Graphics kexts

The next step is to download the required kexts to enable graphics. FakePCIID doesn't work alone. FakePCIID and FakePCIID_Intel_HD_Graphics.kext is needed together to work with conjunction in order to enable the graphics.

Downloads

1. [FakePCIID](#)

Notes :

- Download the latest version only.

Step 5: Installing Graphics kexts

After editing your config.plist file, the next step is to install the Graphics kexts. You can use either terminal or any other app for installing the kexts.

Download the kexts

Extract it to your Desktop

Open terminal

Type

Code:

Press enter, when prompted, enter your password

Note :

- Make sure to replace your user name with "your user name"

Restart your System

1. After performing all the above steps, restart your system in order to enable the Intel HD Graphics.
2. Now you should be able to get your Intel HD Graphics 1536 MB will full QE/CI. And your Dock would be also transparent.

Problem Reporting

Details :

1. Intel UHD Graphics model
2. macOS version
3. Copy of IOReg

Screen shots :

- DPCIManager/Status
- About This Mac
- System Information/Graphics/Displays

Clover Files :

- Compress EFI/Clover, exclude the themes folder. Do not include complete EFI folder.

Put all files in a folder with your name, compress files as Zip and attach files using site attachments only. Do not use any external links.

Credits :

RehabMan

GO Office 2019 for Macs



The best alternative to Microsoft Office Suite for Macs Office Technologies

OPEN



rBoLt168

New member

Feb 19, 2019

#2

Hello,

Thank you for your guide, unfortunately it didn't work for me. I am still getting 7mb of Vram only. I am attaching the Problem Reporting as required. Looking forward to hear from you. thank you in advance.

Attachments





rbolt168 - Problem ...

1.7 MB

Views: 129

Last edited by a moderator: Feb 19, 2019



EliteMacx86

Administrator Staff member

Feb 19, 2019

#3

rBoLt168 said:

Thank you for your guide, unfortunately it didn't work for me. I am still getting 7mb of Vram only.

Please fix your profile as per FAQ. <https://www.elitemacx86.com/threads/faq-read-first-questions-related-to-laptop.175/>

The files are not as per the guide. Next to that, the ig-platform-id you're using is not correct. The guide says to use **0x0a260006** as a platform id and you're injecting 0x0d220003 which is wrong.



rBoLt168

New member

Feb 19, 2019

#4

EliteMacx86 said:

Please fix your profile as per FAQ. <https://www.elitemacx86.com/threads/faq-read-first-questions-related-to-laptop.175/>

The files are not as per the guide. Next to that, the ig-platform-id you're using is not correct. The guide says to use **0x0a260006** as a platform id and you're injecting 0x0d220003 which is wrong.

Hello @EliteMacx86 appreciate you promptly coming back to me. the reason it was one 0x0d220003 because I was playing around with the graphics settings when I took the Problem report. Regarding the profile I am making multiple machines now so it was not consistent with the current machine i was working on.

You are mentioning some files are you referring to the Kext installed?



EliteMacx86

Administrator Staff member

Feb 19, 2019

#5

rBoLt168 said:

Hello @EliteMacx86 appreciate you promptly coming back to me. the reason it was one 0x0d220003 because I was playing around with the graphics settings when I took the Problem report. Regarding the profile I am making multiple machines now so it was not consistent with the current machine i was working on.
You are mentioning some files are you referring to the Kext installed?

Please fix your profile as per FAQ. <https://www.elitemacx86.com/threads/faq-read-first-questions-related-to-laptop.175/>

Follow the installation guide here: <https://www.elitemacx86.com/threads/guide-how-to-boot-macos-installer-on-laptops-using-clover-uefi-legacy.177/>

Report with new set of files.



Clean & Fast Mac Now

Clean Mac files Right Now. Award-winning System Utility.



rBoLt168

New member

Feb 20, 2019

#6

Hello,
thanks for your inputs, I reverted back the changes as per guide. I need to removed the Intel Inject again so I can extract the information required.

Attached is the Problem Report for help please. thank you very much in advance.

- CPU model - Intel i5-4210Y
- Chipset - Intel (mobo E241819)
- Graphics - Intel HD 4200 (integrated)
- RAM - 8GB DDR3
- Audio Codec - ALC662v2

I hope this is all you needed.

This is not a notebook, this is a DIY NUC with a mini pc case. Just using a mobile components.

Attachments



rbolt168 - Problem ...

3.8 MB

Views: 42



EliteMacx86

Administrator

Staff member

rBoLt168 said: 

Hello,
thanks for your inputs, I reverted back the changes as per guide. I need to removed the Intel Inject again so I can extract the information required.
Attached is the Problem Report for help please. thank you very much in advance.

[Click to expand...](#)

Inject Intel must be checked. Again, the files are not as per the guide. It's not the appropriate config.plist. Next to that, you've provided incomplete PR files. IOReg is missing.
You should update the specs in your profile. Not here.



rBoLt168

New member

Mar 1, 2019

#8

Hi,

after Step 5 do i need to install the Kext in the clover kext folder?



EliteMacx86

Administrator Staff member

Mar 1, 2019

#9

rBoLt168 said: 

Hi,
after Step 5 do i need to install the Kext in the clover kext folder?

Remove the unnecessary kexts from the Clover/Kexts/Other directory. And use Lilu+WEG. The Graphics kexts are not required to install. Reply with new set of PR files.



rBoLt168

New member

Mar 1, 2019

#10

Hi EliteMac appreciate your attention on this, thank you. I attached a new set of PR files. I have been formatting this machine for the 4-5 times already. Just to mention again that I unchecked the Intelinject

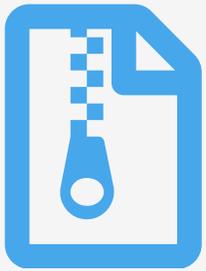
so I can boot up the machine, else I will have the "next Stall 'IGPU' " and won't be able to take the screenshots.

Intel UHD Graphics: HD4200

OSX: 10.13.6

thank you in advance.

Attachments



Problem Report.zip

2.2 MB

Views: 47

1 of 4

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Graphics



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