**Hardware Configuration**  
ASUS FX504GE-ES72([Amazon](https://www.amazon.com/dp/B07DY11M1F/?tag=tonymacx86com-20)):

* Intel i7-8750H
* 16GB RAM
* Samsung 970 evo 512GB NVMe SSD ([Amazon](https://www.amazon.com/dp/B07BN4NJ2J/?tag=tonymacx86com-20))
* Samsung 860 evo 1TB Sata III SSD([Amazon](https://www.amazon.com/dp/B078DPCY3T/?tag=tonymacx86com-20))
* NV 1050Ti 4GB
* Dell DW1560(BCM94352Z) Wireless+Bluetooth
* Apple Magic Mouse

**Working**

* Intel Graphics Accelleration(uhd630)
* Wifi & Bluetooth (dw1560)
* Audio
* Brightlight Control
* Sleep and Wake (Hibernatemode 3)
* PS/2 Keyboard
* Work almost perfect
* HDMI port (with audio)

**Not Working**

* I2C ELAN1200 Precision TouchPad(could refer to PoomSmart's work in github, I did not try cause I use a apple trackpad instead)
* NV discrete card(disabled via hot patch)

**Installation**

* 1.Use the Clover EFI Mojave Installer to install Mac OS Majave(10.14.3)
* 2.Boot into the system and replace the "EFI" Folder on you System Boot Disk EFI partition
* 3.Install all the kext contained in the Kext "other" folder into your /Library/Extensions, rebuild kextcache and reboot

#ACPI Patched: DSDT, SSDT-DDGPU, SSDT-PNLF/PNLFCFL, SSDT-UIAC, SSDT-XHC, SSDT-XOSI  
#UEFI Drivers are used: **ApfsDriverLoader, OsxAptioFix3Drv(clover 5108 stock,work fine)**, DataHubDxe, **EmuVariableUefi**, FSinject, HFSPlus or VBoxHFS, NvmExpressDxe, PartitionDxe, SMCHelper.  
#Kexts are used: ACPIBatteryManager, AirportBrcmFixup, **AppleALC**, BrcmFirmwareRepo, BrcmPatchRAM2, BT4LEContiunityFixup, **FakeSMC, Lilu**, NoTouchID, RealtekRTL8111, **USBInjectAll,** VoodooPS2Controller, **WhateverGreen**, XHCI-unsupported.  
#Please find above files in [**the link**](https://github.com/MegaStood/Hackintosh-FX504GE-ES72):  
  
**Clover Config**

* Acpi: AutoMerge, DSDT Patches(\_OSI to XOSI, HECI to IMEI,GFX0 to IGPU, HDAS to HDEF,no need to rename EHC\* as Chipsets post Skylake removed USB2.0 native support), SSDT PluginType checked
* Boot Args: dart=0 agdpmod=vit9696 darkwake=0 -v -lilubetaall keepsyms=1 -wegbeta
* Kernel Patches: Kernel LAPIC, KernelPM and AppleRTC enabled
* SMBIOS: MacBookPro15,2
* SystemParameters: InjectKexts Detect, InjectSystemID YES.

**DSDT Patch (only two static patches needed )**  
 **Sleep and wake**  
Use "USB \_PRW 0x6D (instant wake)" patches for Skylake(and later). This patch will add Method(\_PRW) { Return(Package() { 0x6D, 0 }) } to relevant Devices.  
# There may be missing a "}" after applying the patch, which cause compile syntax error. Search for Method(\_PRW) and find out the syntax error. If there is still wake problems (“wake reason” :XDCI CNVW XHC etc.), use Log Show to find the wake reason and search the specific Device (XDCI or CNVW) to see if Method(\_PRW) is missing in the specific device.  
  
**Brightness adjustment keys**  
working by modifying /EFI/Clover/ACPI/patched/DSDT.aml  
Scope (\_SB.PCI0.LPCB.EC0)  
{  
...  
Method (\_Q11, 0, NotSerialized) // \_Qxx: EC Query  
{  
Notify (PS2K, 0x0405) // Brightness down  
}  
Method (\_Q12, 0, NotSerialized) // \_Qxx: EC Query  
{  
Notify (PS2K, 0x0406) // Brightness up  
}  
...  
}  
  
**Hot Patches**

* Disable NV GPU: SSDT-DDGPU
* Backlight Control: SSDT-PNLF/PNLFCFL
* Removing unused USB ports: SSDT-UIAC
* inject properties for XHCI: SSDT-XHC
* XOSI simulation to "Windows 10": SSDT-XOSI

**USB**  
**Actual Port Information:**

|  |  |  |
| --- | --- | --- |
| Port | Type | Description |
| HS01/SS01 | USB 3.0 Type A | Front--Left side |
| HS02/SS02 | USB 3.0 Type A | Middle--Left side |
| HS03 | USB 2.0 | Rear--Left Side |
| HS07 | Proprietary | Webcam |
| HS14 | Proprietary | Bluetooth |

Use above information to make specific Hotpatch SSDT-UIAC.aml(based on SSDT-UIAC-ALL).  
  
**Audio**  
  
Realtek ALC255: Use AppleALC.kext, Clover Audio inject =3  
  
**HDMI**  
  
  
USE the latest Hacktool to creat a patch,the below section should be take care:    
  
  
  
framebuffer-con1-busid 01000000(the only work-out id)  
  
framebuffer-con1-enable 01000000  
  
framebuffer-con1-flags 87010000  
  
framebuffer-con1-has-lspcon 01000000  
  
framebuffer-con1-index 01000000  
  
framebuffer-con1-pipe 12000000  
  
framebuffer-con1-preferred-lspcon-mode 01000000  
  
framebuffer-con1-type 00080000(used as a HDMI identifier),  
  
framebuffer-patch-enable 01000000  
  
  
  
As the MacbookPro 15,2 do not have HDMI port actually, the check of the board-id should be ignored by  
  
using the WhateverGreen boot-arg agdpmod=vit9696.please check the details in my updated config.plist.  
  
Kindly note that the kext of WhateverGreen, Lilu and AppleALC should be updated to the latest version.  
  
**Credit:**

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* Thanks to Jaymonkey for his iDiot's Guide to Lilu and its Plug-ins.
* Thanks to P1LGRIM for his iDiot's Guide To make iMessage work.
* Thanks to PoomSmart for his preliminary work, which inspire me to work further and make this final build.