

MOJAVE | Comet Lake i9 10850K | iGPU UHD630 | Z490 | Opencore | iGPU Framebuffer Patching

Beitrag von „Kentsoon“ vom 16. Mai 2021, 11:17

Maybe I'm not the only one who wants to keep running on High Sierra (or Mojave) because of hundreds of 32bit Plugins and Apps not running on Catalina or Big Sur, but still **take advantage of faster CPUs.**

This post is ONLY about getting the iGPU up and running.

So I built this:

[ASUS TUF GAMING Z490-PLUS \(WI-FI\)](#)

[i9 10850K](#) with UHD 630 - DP and HDMI output | iGPU-Device ID: 0x9BC5

MacOSX High Sierra.

To install High Sierra, I used [this EFI from github](#) by vectorseven.

I installed Opencore and finetuned the config.plist with <https://dortania.github.io/Ope...sites.html#prerequisites>

Plattform is imac 18,3

WHAT WORKS:

Basically everything. System is stable, and works great.

Wifi, Bluetooth, Ethernet, ALCS1200 AUDIO on the Motherboard all work flawless.

DisplayPort (DP) and HDMI output works.

WHAT DOES NOT WORK:

No Audio on DP and HDMI, iGPU only 18MB VRAM, the 2 Display-Monitors run in Mirroring Mode, no possibility to get them in separated Mode (MacOS only recognices ONE Display)

GOAL:

Patch the IGPU using Opencore Framebuffer Patching with Whatevergreen.

Getting rid of the 18MB VRAM

Setting up connectors for HDMI and DP

I tried numerous things, different device-IDs, Hackintool etc. but nothing seems to make a difference.

This is where I'm at:



- ▼ Hardware
- ATA
- Audio
- Bluetooth
- Camera
- Card Reader
- Controller
- Diagnostics
- Disc Burning
- Ethernet Cards
- Fibre Channel
- FireWire
- Graphics/Displays**
- Hardware RAID
- Memory
- NVMeExpress
- PCI

Intel UHD Graphics 630:

Chipset Model: Intel UHD Graphics 630
 Type: GPU
 Bus: Built-In
 VRAM (Total): 18 MB
 VRAM (Dynamic, Max):
 Vendor: Intel
 Device ID: 0xc59b
 Revision ID: 0x0005
 Kernel Extension Info: No Kext Loaded
 Displays:
Display:
 Resolution: 3440 x 1440 (UWQHD - Ultra-Wide Quad HD)
 UI Looks like: 3440 x 1440
 Framebuffer Depth: 24-Bit Color (ARGB8888)
 Main Display: Yes
 Mirror: Off
 Online: Yes
 Automatically Adjust Brightness: No

▼ DeviceProperties	↕ Dictionary	2 key/value pairs
▼ Add	↕ Dictionary	4 key/value pairs
▼ PciRoot(0x0)/Pci(0x2,0x0)	↕ Dictionary	6 key/value pairs
AAPL,ig-platform-id	↕ Data	<07009B3E>
framebuffer-patch-enable	↕ Data	<01000000>
framebuffer-stolenmem	↕ Data	<00000930>
framebuffer-unifiedmem	↕ Data	<00000080>
device-id	↕ Data	<9BC50000>
framebuffer-fbmem	↕ Data	<00000000>
▼ PciRoot(0x0)/Pci(0x1C,0x1)/Pci(0x0,0)	↕ Dictionary	1 key/value pair
device-id	↕ Data	<F2150000>
▼ PciRoot(0x0)/Pci(0x1F,0x3)	↕ Dictionary	2 key/value pairs
device-id	↕ Data	<70A10000>
layout-id	↕ Data	<07000000>
▼ PciRoot(0x0)/Pci(0x1b,0x0)	↕ Dictionary	1 key/value pair
layout-id	↕ String	0x100001

▼	EFI	35,6 MB	Folder
▼	BOOT	20 KB	Folder
	BOOTx64.efi	20 KB	Document
▼	OC	35,6 MB	Folder
▼	ACPI	1 KB	Folder
	SSDT-AWAC.aml	81 bytes	Document
	SSDT-EC.aml	125 bytes	Document
	SSDT-PLUG.aml	112 bytes	Document
	SSDT-PMC.aml	144 bytes	Document
	SSDT-RHUB.aml	325 bytes	Document
	SSDT-USB-Reset.aml	110 bytes	Document
	SSDT-USBX.aml	217 bytes	Document
	config.plist	27 KB	Property List
▶	Drivers	54 KB	Folder
▼	Kexts	33,9 MB	Folder
	AirportItlwm.kext	14 MB	Kernel Extension
	AppleALC.kext	2 MB	Kernel Extension
	IntelBluet...ware.kext	15,5 MB	Kernel Extension
	IntelMausi.kext	261 KB	Kernel Extension
	Lilu.kext	816 KB	Kernel Extension
	NVMeFix.kext	54 KB	Kernel Extension
	SMCProcessor.kext	61 KB	Kernel Extension
	SMCSuperIO.kext	248 KB	Kernel Extension
	USBMap.kext	6 KB	Kernel Extension
	VirtualSMC.kext	216 KB	Kernel Extension
	WhateverGreen.kext	705 KB	Kernel Extension
	OpenCore.efi	532 KB	Document
▶	Resources	Zero bytes	Folder
▶	Tools	1,1 MB	Folder