

Z490 Vision G with OpenCore - Works like an original iMac20,2 in all aspects

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Here is my take.

For the GA-Z409 Vision G mobo, which only has one onboard ethernet controller, a device properties entry such as,

DeviceProperties -> Add ->

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PciRoot(0x0)/Pci(0x1C,0x1)/Pci(0x0, 0x0)
```

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-> device-id F2150000
```

in the OC config.plist file to spoof it into a cousin of itself, together with a FakePCIID_Intel_I225-V.kext

and a FakePCIID.kext in the OC Kexts folder, introduces more problems that one is attempting to actually resolve, at least in my particular environment.

When the hack is “sort of sleeping” with “Wake for network access” as well as “Enable Power Nap”

ENABLED, it will wake approximately every 5 minutes, whereafter it will dutifully fall asleep again

after it has duly completed its normal housekeeping chores during that session.

No real problem with that one, however over a 24 hour period that would amount to about 288 wakes in total, which is not acceptable to me at all, besides it will never reach 24 hours of problem free operation because the machine will just totally freeze every now and so often. - lock up - so to speak before that time period has lapsed.

During the periods the hack is sleeping the onboard ethernet controller is actually still

responding

to regular ICMP requests, something which is also totally unacceptable in an “on demand managed network environment” such as I prefer to be working under.

Prominent, and seemingly experienced hackers, generally recommend to disable - “untick” - everything that is offered under “System Preference —> Energy Saver” to make a hack work sort of, but that is not a path that I have ever followed in my years of hacking endeavours. My mission has always been that my hacks have to work the way Apple originally intended with the System definition I have chosen for the hardware I am trying to hack into a perfect Apple clone.

I have attached my config.plist file, which I am using, which reflects the settings applicable fo my particular system and at the same time eliminates all the problems with the onboard ethernet controller which has been disabled in BIOS, above all the Power Nap and wake for network access is ENABLED.

A screenshot depicting the “sleep stability” I am currently blessed with has also been attached.

All the information as to how I generally accomplished this can be gleaned from the contents of my

config.plist file which is obviously also listing the kexts in use but also their version numbers in operation.

When next I am available I will attempt to answer questions to those interested that want to also accomplish this kind of result.

OH by the way the foregoing applies to my Comet Lake build with these components:

- GA-Z490-Vision G mobo
- Intel Core i9-10850K cpu
- Corsair Vengeance RGB Pro 64 GB 3600 Mhz. memory
- AMD Radeon RX 5700 XT gpu
- Intel UHD Graphics 630 in a headless configuration
- 2 x 27 inch LG 4K display monitors providing the visual output.
- A Kraken X73 liquid closed circuit cooler with a total of 4 additional 120 mm. fans to provide the necessary cooling.
- 9 TB storage provided by 2 x Samsung NVME 970 EVO 500 GB and 4 x Samsung SSD

EVO 2 TB SSD drives.

- WiFi/Bluetooth - Standard Fenvi T919 Apple compatible PCIe add-on card.
- Realtek 10/100/1000M USB Ethernet LAN controller
- AX88772 10/100 USB Ethernet LAN controller feeding a DANTE audio network.
- Apple magic keyboard 2 as well as Apple magic mouse 2 used on all 4 operating systems on this rig without the need of constantly having to "re-pair" these items when migrating to another operating system, be it Windows Enterprise, Windows Professional or Ubuntu 20.4 LTS.

All the above is powered by an EVGA 850 G3 power supply and housed in a Sharkoon TGS case.

Drivers for the LAN controllers are embedded in Big Sur and are thus working OOB

Happy hacking Henties