OpenCore auf Gigabyte Z490 Gaming X

=> Vorgehen nach <https://dortania.github.io/OpenCore-Install-Guide/>

1. Vorbereitungen für OC Boot Stick

- Boot Stick(s) erstellen - Festplattendienstprogramm 'Intenso Ultra Line Media' - Löschen 'INTENSO' - Name: - Format: 'ExFAT' - Schema: 'GUID-Partitionstabelle' - 'diskutil list' /dev/disk4 (external, physical): TYPE NAME SIZE **IDENTIFIER** #: 0: GUID_partition_scheme *32.0 GB disk4 EFI EFI 1: 209.7 MB disk4s1 2: Microsoft Basic Data INTENSO 31.8 GB disk4s2

- 'sudo /Users/Shared/DATEN/Archiv/MAC/OS\ X/10.15\ Catalina/10.15.7/Install\ macOS\ Catalina.app/Contents/Resources/createinstallmedia --volume /Volumes/INTENSO –nointeraction'

- 'diskutil list'

/dev/o	lisk4 (external, physical):	
#:	TYPE NAME	SIZE IDENTIFIER
0:	GUID_partition_scheme	*32.0 GB disk4
1:	EFI EFI	209.7 MB disk4s1
-		

2: Apple_HFS Install macOS Catalina 31.7 GB disk4s2

2. Vorbereitungen für OC Boot Stick (Downloads)

- Download 'gibMacOS-master.zip' von <https://github.com/corpnewt/gibMacOS> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/'

- Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/gibMacOS'

- Download 'MountEFI-update.zip' von <https://github.com/corpnewt/MountEFI> nach '/Users/ Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/'

- Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/MountEFI'

Download 'OpenCore-0.6.2-RELEASE.zip' von
 <https://github.com/acidanthera/OpenCorePkg/releases/> nach
 '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/'
 Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS

X/Hackintosh/OpenCore/OpenCore-0.6.2'

- Download 'refind-bin-0.12.0.zip' von <https://sourceforge.net/projects/refind/files/latest/download> nach '/Users/Shared/DATEN/Archiv/ MAC/OS X/Hackintosh/OpenCore/' - Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/refind-bin-0.12.0'

- Download 'HfsPlus.efi' von

<https://github.com/acidanthera/OcBinaryData/blob/master/Drivers/HfsPlus.efi> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/Drivers'

- Download 'VirtualSMC-1.1.7-RELEASE.zip' von <https://github.com/acidanthera/VirtualSMC/releases> nach '/Users/Shared/DATEN/Archiv/MAC/ OS X/Hackintosh/OpenCore/Kext'

- Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/Kext/VirtualSMC-1.1.7'

- Download 'Lilu-1.4.8-RELEASE.zip' von <https://github.com/acidanthera/Lilu/releases> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/Kext'

- Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/Kext/Lilu-1.4.8'

Download 'WhateverGreen-1.4.3-RELEASE.zip' von
 <https://github.com/acidanthera/WhateverGreen/releases nach
 '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/Kext'
 Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS

X/Hackintosh/OpenCore/Kext/WhateverGreen-1.4.3

Download 'AppleALC-1.5.3-RELEASE.zip' von
 <https://github.com/acidanthera/AppleALC/releases> nach
 '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/Kext'
 Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS
 X/Hackintosh/OpenCore/Kext/AppleALC-1.5.3'

Download 'IntelMausi-1.0.4-RELEASE.zip' von
 <https://github.com/acidanthera/IntelMausi/releases> nach
 '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/Kext'
 Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS
 X/Hackintosh/OpenCore/Kext/IntelMausi-1.0.4'

- Download 'SSDT-PLUG-DRTNIA.aml' von <https://github.com/dortania/Getting-Started-With-ACPI/blob/master/extra-files/compiled/SSDT-PLUG-DRTNIA.aml> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ACPI'

- Download 'SSDT-EC-USBX-DESKTOP.aml' von <https://github.com/dortania/Getting-Started-With-ACPI/blob/master/extra-files/compiled/SSDT-EC-USBX-DESKTOP.aml> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ACPI'

- Download 'SSDT-AWAC.aml' von <https://github.com/dortania/Getting-Started-With-ACPI/blob/master/extra-files/compiled/SSDT-AWAC.aml> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ACPI'

- Download 'SSDT-RHUB.aml' von <https://github.com/dortania/Getting-Started-With-ACPI/blob/master/extra-files/compiled/SSDT-RHUB.aml> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ACPI'

- Download 'ProperTree-master.zip' von <https://github.com/corpnewt/ProperTree> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/' - Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS

X/Hackintosh/OpenCore/ProperTree'

- 'cd /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/ProperTree/Scripts' - 'sudo /Users/Shared/DATEN/Archiv/MAC/OS\

X/Hackintosh/OpenCore/ProperTree/Scripts/buildapp.command'

Checking for existing ProperTree.app...

Creating bundle structure...

Copying scripts...

- ProperTree.command

- run.py
- plist.py
- shortcut.icns
- ___init___.py
- menu.plist
- utils.py
- plistwindow.py
- Building Info.plist...

- Download 'GenSMBIOS-master.zip' von <https://github.com/corpnewt/GenSMBIOS> nach '/ Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/' - Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/GenSMBIOS'

3. OC auf Boot Stick installieren

- EFI-Partition des USB-Sticks mounten

- 'diskutil list'

#: 0:

1:

- /dev/disk4 (external, physical):
 - TYPE NAME SIZE IDENTIFIER
 - GUID_partition_scheme
 - EFI EFI
- 209.7 MB disk4s1

*32.0 GB disk4

- 2: Apple_HFS Install macOS Catalina 31.7 GB disk4s2
- 'sudo diskutil mount disk4s1'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore-0.6.2/X64/EFI /Volumes/EFI/'

- 'sudo cp /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/OpenCore-0.6.2/ Docs/Configuration.pdf /Volumes/EFI/EFI/OC'

- 'sudo cp /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/OpenCore-0.6.2/ Docs/Sample.plist /Volumes/EFI/EFI/OC'

- 'sudo cp /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/OpenCore-0.6.2/ Docs/SampleCustom.plist /Volumes/EFI/EFI/OC'

- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/AudioDxe.efi'

- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/CrScreenshotDxe.efi'

- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/OpenUsbKbDxe.efi'

- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/UsbMouseDxe.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/NvmExpressDxe.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/XhciDxe.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/HiiDatabase.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/OpenCanopy.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/Ps2KeyboardDxe.efi'

- 'sudo rm /Volumes/EFI/EFI/OC/Drivers/Ps2MouseDxe.efi'

- 'sudo rm /Volumes/EFI/EFI/OC/Tools/BootKicker.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/ChipTune.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/CleanNvram.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/GopStop.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/HdaCodecDump.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/KeyTester.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/MmapDump.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/OpenControl.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/ResetSystem.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/RtcRw.efi'
- 'sudo rm /Volumes/EFI/EFI/OC/Tools/VerifyMsrE2.efi'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\

X/Hackintosh/OpenCore/Drivers/HfsPlus.efi /Volumes/EFI/EFI/OC/Drivers'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/Kext/VirtualSMC-1.1.7/Kexts/VirtualSMC.kext /Volumes/EFI/EFI/OC/Kext'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/Kext/VirtualSMC-1.1.7/Kexts/SMCProcessor.kext /Volumes/EFI/EFI/OC/ Kext'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS

X/Hackintosĥ/OpenCore/Kext/VirtualSMC-1.1.7/Kexts/SMCSuperIO.kext /Volumes/EFI/EFI/OC/Kext'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/Kext/Lilu-1.4.8/Lilu.kext /Volumes/EFI/EFI/OC/Kext'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\

X/Hackintosh/OpenCore/Kext/WhateverGreen-1.4.3/WhateverGreen.kext /Volumes/EFI/EFI/OC/Kext'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\

X/Hackintosh/OpenCore/Kext/AppleALC-1.5.3/AppleALC.kext /Volumes/EFI/EFI/OC/Kext' - 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\

X/Hackintosh/OpenCore/Kext/IntelMausi-1.0.4/IntelMausi.kext /Volumes/EFI/EFI/OC/Kext'

- 'sudo cp /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/ACPI/SSDT-PLUG-DRTNIA.aml /Volumes/EFI/EFI/OC/ACPI'

- 'sudo cp /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/ACPI/SSDT-EC-USBX-DESKTOP.aml /Volumes/EFI/EFI/OC/ACPI'

- 'sudo cp /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/ACPI/SSDT-AWAC.aml /Volumes/EFI/EFI/OC/ACPI'

- 'sudo cp /Volumes/EFI/EFI/OC/Sample.plist /Volumes/EFI/EFI/OC/config.plist'

- '/Volumes/EFI/EFI/OC/config.plist' mit '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ProperTree/ProperTree.app' bearbeiten

- CMD+Shift+R => OC Clean Snapshot

- Verzeichnis '/Volumes/EFI/EFI/OC' angeben

- die 4 '#Warning' - Einträge entfernen

- Root=>Booter=>Quirks DevirtualiseMmio True False EnableWriteUnprotector ProtectUefiServices True RebuildAppleMemoryMap True SetupVirtualMap Falso **SyncRuntimePermissions** True - Root=>DeviceProperties=>Add - hinzufügen: <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd"> <plist version="1.0"> <dict> <key>PciRoot(0x0)/Pci(0x2,0x0)</key> <dict> <key>AAPL,ig-platform-id</key> <data> BwCbPg== </data> <key>framebuffer-patch-enable</key> <data> AQAAAA== </data> <key>framebuffer-stolenmem</key> <data> AAAwAQ== </data> </dict> </dict> </plist> - hinzufügen: <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd"> <plist version="1.0"> <dict> <key>PciRoot(0x0)/Pci(0x1C,0x1)/Pci(0x0,0x0)</key> <dict> <key>device-id</key> <data> 8hUAAA== </data> </dict> </dict> </plist> - Root=>Kernel=>Quirks PanicNoKextDump True PowerTimeoutKernelPanic True

XhciPortLimit	True
- Root=>Misc=>Debug AppleDebug ApplePanic DisableWatchDog Target	True True 67
- Root=>Misc=>Security	
AllowNvramReset	True
AllowSetDefault	True
ScanPolicy	
SecureBootModel	Default
I nis is a word an	Id is case-sensitive, set to Disabled if you do not want secure
Voult	Ontional
This is a word it	is not optional to omit this setting. You will regret it if you don't
set it to Optional, note that it is ca	se-sensitive
- Root=>NVRAM=>Add	=>7C436110-AB2A-4BBB-A880-FE41995C9F82
boot-args	-v keepsyms=1 debug=0x100 alcid=1
prev-lang:kbd	<>
- '/Users/Shared/DATEN/Arcl X/Hackintosh/OpenCore/GenSMI - 1. Install/Update MacSe - 3. Generate SMBIOS 'iMac20,1 1' Type:	hiv/MAC/OS BIOS/GenSMBIOS.command' starten erial iMac20.1
Serial:	123456789012
Board Serial:	12345678901234567
SmUUID:	12345678-1234-1234-1234-123456789012
- '/Volumes/EFI/EFI/OC/conf X/Hackintosh/OpenCore/ProperT	ig.plist' mit '/Users/Shared/DATEN/Archiv/MAC/OS ree/ProperTree.app' bearbeiten
- Root=>PlatformInfo=>0 SystemProductName SystemSerialNumber MLB SystemUUID ROM X490 Board => 11:22:33:44:55:60	Generic iMac20,1 123456789012 12345678901234567 12345678-1234-1234-123456789012 11223344 5566 (entspricht MAC Adress vom Hackintosh 6)

- Root=>UEFI

4. OC GUI auf Boot Stick installieren

- analog <https://dortania.github.io/OpenCore-Post-Install/cosmetic/gui.html#setting-up-opencore-s-gui>

 Download 'OcBinaryData-master.zip' von <https://github.com/acidanthera/OcBinaryData> nach '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore'
 Entpacken nach '/Users/Shared/DATEN/Archiv/MAC/OS

X/Hackintosh/OpenCore/OcBinaryData'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/OcBinaryData/ Resources/* /Volumes/EFI/EFI/OC/Resources/'

- 'sudo cp -r /Users/Shared/DATEN/Archiv/MAC/OS\ X/Hackintosh/OpenCore/OpenCore-0.6.2/X64/EFI/OC/Drivers/OpenCanopy.efi /Volumes/EFI/EFI/OC/Drivers'

- '/Volumes/EFI/EFI/OC/config.plist' mit '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ProperTree/ProperTree.app' bearbeiten

- Root=>Misc=>Boot	
PickerMode	External
PickerAttributes	1 (war schon)

- Root=>UEFI=>Drivers add OpenCanopy.efi <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd"> <plist version="1.0"> <plist version="1.0"> <array> <string>OpenCanopy.efi</string> </array> </plist>

5. Boot 'Install macOS Catalina' über OC Stick

Festplattendienstprogramm
Partitionieren: OS X, APFS, GUID
Installation OS X 10.15.7 per App
Zielvolume: OS X

6. OC auf OS X SSD installieren

- 'diskutil List' /dev/disk0 (internal, physical): TYPE NAME #: SIZE **IDENTIFIER** 0: GUID_partition_scheme *4.0 TB disk0 1: EFI EFI 209.7 MB disk0s1 2: Apple_APFS Container disk2 4.0 TB disk0s2 /dev/disk3 (internal, physical): TYPE NAME SIZE **IDENTIFIER** #: 0: GUID partition scheme *32.0 GB disk3 209.7 MB disk3s1 1: EFI EFI 2: Apple_HFS Install macOS Catalina 31.7 GB disk3s2 - 'sudo diskutil mount disk0s1' - 'sudo diskutil mount disk3s1' - 'mount' /dev/disk0s1 on /Volumes/EFI (msdos, asynchronous, local, noowners) /dev/disk3s1 on /Volumes/EFI 1 (msdos, local, nodev, nosuid, noowners)

- 'Volumes/EFI\ 1/EFI' nach '/Volumes/EFI/EFI' kopieren

1. OC auf der SSD => Disable Debug & Logging

- EFI-Partition der SSD mounten

- 'diskutil list'

/dev/disk0 (internal, physical):						
#:	TYPE NAME	SIZE	IDE	ENTIFIER		
0:	GUID_partition_scheme	*4.() TB	disk0		
1:	EFI EFI	209.7 MB	disk0s	51		
2:	Apple_APFS Container	disk2 4	.0 TB	disk0s2		
- 'sudo diskutil mount disk0s1'						

- Logfiles löschen

- 'sudo rm /Volumes/EFI/opencore*'

- '/Volumes/EFI/EFI/OC/config.plist' mit '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ProperTree/ProperTree.app' bearbeiten

Root=>Misc=>Debug	
AppleDebug	False
ApplePanic	False
Target	0

- '/Volumes/EFI/EFI/OC/config.plist' mit '/Users/Shared/DATEN/Archiv/MAC/OS X/Hackintosh/OpenCore/ProperTree/ProperTree.app' bearbeiten

- Root=>NVRAM=>Add=>7C436110-AB2A-4BBB-A880-FE41995C9F82 boot-args keepsyms=1 debug=0x100 alcid=1