

# **OpenCore**

Reference Manual (0.9.1.2)

[2023.04.06]

Note 4: This patch is for PMIO support and is therefore not applied if UseMmio under section Misc->Serial->Custom is false. For MMIO, there are boot arguments pcie\_mmio\_uart=ADDRESS and mmio\_uart=ADDRESS that allow the kernel to use MMIO for serial port access.

Note 5: The serial baud rate must be correctly set in both BaudRate under section Misc->Serial->Custom and via serialbaud=VALUE boot argument, both of which should match against each other. The default baud rate is 115200.

#### 6. CustomSMBIOSGuid

Type: plist boolean Failsafe: false Requirement: 10.4

Description: Performs GUID patching for UpdateSMBIOSMode Custom mode. Usually relevant for Dell laptops.

# 7. DisableIoMapper

Type: plist boolean Failsafe: false

**Requirement**: 10.8 (not required for older)

Description: Disables IOMapper support in XNU (VT-d), which may conflict with the firmware implementation.

Note 1: This option is a preferred alternative to deleting DMAR ACPI table and disabling VT-d in firmware preferences, which does not obstruct VT-d support in other systems in case they need this.

Note 2: Misconfigured IOMMU in the firmware may result in broken devices such as ethernet or Wi-Fi adapters. For instance, an ethernet adapter may cycle in link-up link-down state infinitely and a Wi-Fi adapter may fail to discover networks. Gigabyte is one of the most common OEMs with these issues.

### 8. DisableIoMapperMapping

Type: plist boolean

Failsafe: false

**Requirement**: 13.3 (not required for older)

**Description**: Disables mapping PCI bridge device memory in IOMMU (VT-d).

Note 1: This option resolves compatibility issues with Wi-Fi, Ethernet and Thunderbolt devices when AppleVTD is enabled on systems where the native DMAR table contains one or more Reserved Memory Regions.

Note 2: This option is not needed on AMD systems or any Intel system where the native DMAR table does not contain any Reserved Memory Regions.

#### 9. DisableLinkeditJettison

Type: plist boolean Failsafe: false Requirement: 11

**Description**: Disables \_\_LINKEDIT jettison code.

This option lets Lilu.kext, and possibly other kexts, function in macOS Big Sur at their best performance levels without requiring the keepsyms=1 boot argument.

## 10. DisableRtcChecksum

Type: plist boolean Failsafe: false Requirement: 10.4

**Description**: Disables primary checksum (0x58-0x59) writing in AppleRTC.

Note 1: This option will not protect other areas from being overwritten, see RTCMemoryFixup kernel extension if this is desired.

Note 2: This option will not protect areas from being overwritten at firmware stage (e.g. macOS bootloader), see AppleRtcRam protocol description if this is desired.

#### 11. ExtendBTFeatureFlags

Type: plist boolean

Failsafe: false