

# MSI Z490 Tomahawk Hackintosh (wieder) zum laufen bringen

Beitrag von „cobanramo“ vom 8. Dezember 2023, 18:21

Es ist die "SetupVirtualMap" wie [kaneske](#) es schon erwähnt hat in kombination mit der "ProtectUefiServices".

Bei manchen Boards von MSI reicht die "SetupVirtualMap", bei manchen muss die "ProtectUefiServices" mit aktiviert werden **bei den neuesten Bios update`s**. Was genau MSI da verändert hat kann ich leider auch nicht genau sagen aber seit neuestem startet MacOS nur so.

Hab ein z590 Board, die relevantesten original SSDT`s sind eigentlich dasselben wie die vorgänger, irgendwas scheint aber doch nicht mehr zu passen.

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19. SetupVirtualMap
Type: plist boolean
Fallback: false
Description: Setup virtual memory at SetVirtualAddresses.

Some types of firmware access memory by virtual addresses after a SetVirtualAddresses call, resulting in early boot crashes. This quirk workarounds the problem by performing early boot identity mapping of assigned virtual addresses to physical memory.
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Note: The need for this quirk is determined by early boot failures.

```
20. ProtectUefiServices
Type: plist boolean
Fallback: false
Description: Protect UEFI services from being overridden by the firmware.

Some modern firmware, including on virtual machines such as VMWare, may update pointers to UEFI services during driver loading and related actions. Consequently, this directly obstructs other quirks that affect memory management, such as DevirtualiseMmio, ProtectMemoryRegions, or RebuildAppleMemoryMap, and may also obstruct other quirks depending on the scope of such.

GRUB Shim makes similar on-the-fly changes to various UEFI image services, which are also protected against by this quirk.

Note 1: On VMWare, the need for this quirk may be determined by the appearance of the "Your Mac OS guest might run unsafely with more than one virtual core." message.

Note 2: This quirk is needed for correct operation if OpenCore is chainloaded from GRUB with BIOS Secure Boot enabled.
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Gruss Coban