

# Kein Boot mit aktiver SIP

Beitrag von „cobanramo“ vom 1. November 2019, 08:29



OpenCore

Reference Manual (0.5.2)

[2019.10.26]

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## 5.4 Quirks Properties

### 1. AvoidRuntimeDefrag

Type: plist boolean

Falshaf: false

Description: Protect from boot.efi runtime memory defragmentation.

This option fixes UEFI runtime services (date, time, NVRAM, power control, etc.) support on many firmwares using SMM backing for select services like variable storage. SMM may try to access physical addresses, but they get masked by boot.efi.

Note: Most but Apple and VMware firmwares need this quirk.

### 2. DevirtualizeMmio

Type: plist boolean

Falshaf: false

Description: Remove runtime attributes from select MMIO regions.

This option reduces stolen memory footprint from the memory map by removing runtime bit for known memory regions. This quirk may result in the increase of KASLR slides available, but is not necessarily compatible with the target board. In general this fixes from 64 to 256 megabytes of memory (present in the debug log), and on some platforms it is the only way to boot macOS, which otherwise fails with allocation error at bootloader stage.

This option is generally useful on all firmwares except some very old ones, like Sandy Bridge. On select firmwares it may require a list of exceptional addresses that still need to get their virtual addresses for proper NVRAM and liberation functioning. Use [MmioWhitelist](#) section to do this.

### 3. DisableSingleUser

Type: plist boolean

Falshaf: false

Description: Disable single user mode.

This is a security option allowing one to restrict single user mode usage by ignoring CMD+Q hotkey and -s boot argument. The behaviour with this quirk enabled is supposed to match T2-based model behaviour. Read [this article](#) to understand how to use single user mode with this quirk enabled.

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