

# OpenCore Bootloader aktuelle und ältere Versionen

Beitrag von „Raptortosh“ vom 7. Juni 2021, 18:02

## v0.7.0

- Fixed NVRAM reset on firmware with write-protected `BootOptionSupport`
- Improved direct GOP renderer performance for certain cases
- Added support for display rotation in direct GOP renderer
- Fixed handling multinode device paths in `LoadedImage` and elsewhere
- Changed OpenCanopy image directory to support directory prefixes
- Changed OpenCanopy preferred image set to `Acidanthera\GoldenGate`
- Removed `<BOOTPATH>.icns` and `<TOOLPATH>.icns` support
- Added content flavour system allowing custom boot entry icons compatible across icon packs
- Added automatic flavour detection for macOS boot entries
- Added `ProvideCurrentCpuInfo` quirk to provide correct TSC/FSB for Hyper-V virtual machines
- Added Hyper-V device path expansion to allow setting default boot volume
- Added `Apple` variant of `GopPassThrough` to handle only `AppleFramebufferInfo` handles
- Fixed further kernel patches not being processed if a patch was skipped due to arch mismatch
- Added optional Toggle [SIP](#) system boot menu option
- Added `CsrUtil.efi` tool, similar to `Apple csrutil`
- Removed support for `<TOOLPATH>.l1b1/.l2x` pre-drawn entry labels
- Fixed previous text not cleared before console mode tools and entries in OpenCanopy
- Fixed DEBUG build crashes with `GopPassThrough` and `UgaPassThrough`
- Added flavour for memory testing utilities
- Updated recommended `memtest86` config in sample `.plist` files
- Defined bootloader flavours
- Applied own flavour to OC build
- Added CPU topology fixes to `ProvideCurrentCpuInfo` quirk
- Updated OC default [SIP](#) disabled value
- Documented [SIP](#) values which affect macOS updates
- Added `csr-data` Apple NVRAM var to docs
- Fixed file alignment causing codesign issues with CLANGPDB images
- Replaced `AdviseWindows` with `AdviseFeatures` to support APFS