

# OpenCore Bootloader aktuelle und ältere Versionen

Beitrag von „Noir0SX“ vom 2. März 2020, 18:20

## v0.5.6

- Various improvements to builtin text renderer
- Fixed locating DMG recovery in APTIO IV firmwares on FAT32
- Fixed loading DMG recovery in APTIO IV firmwares on FAT32
- Removed `AvoidHighAlloc` quirk due to removed I/O over 4GB
- Moved `ConsoleMode`, `Resolution` options to `Output` section
- Moved console-related UEFI quirks to `Output` section
- Replaced `ConsoleControl` and `BuiltinTextRenderer` with `TextRenderer`
- Removed `ConsoleBehaviourOs` and `ConsoleBehaviourUi`
- Fixed providing `ConsoleOutHandle` GOP when running from Shell
- Added `PickerAttributes` option to colour picker
- Added `ProtectSecureBoot` option through `FwRuntimeServices`
- Replaced `RequireVault` and `RequireSignature` with `Vault`
- Added `BootKicker` tool to support launching Apple `BootPicker`
- Added `BootPicker` support as an external UI in OC through `PickerMode`
- Added `DirectGopRendering` option to use direct GOP output
- Multiple memory corruption and performance fixes for PNG support
- Fixed `DefaultBackgroundColor` variable handling
- Added `HideAuxiliary` and `Auxiliary` options
- Fixed picker timeout and log timestamps for VMware
- Fixed NULL parent `DeviceHandle` for launched tools
- Added bundled `HiiDatabase` driver for very old firmwares
- Added SSE2 support in memory intrinsics for better performance
- Improved ACPI PM timer CPU frequency calculation performance
- Improved `LapicKernelPanic` compatibility with newer macOS versions
- Fixed drivers starting with # not being skipped
- Added audio support through `AudioDxe` with optional boot chime
- Added `VoiceOver` accessibility support in `boot.efi` for 10.13+
- Added `PickerAudioAssist` option for audio assistance in picker
- Added `HdaCodecDump.efi` tool in default package
- Added legacy `AudioDxe` and Microsoft namespaces to `Reset NVRAM`
- Merged `OcSupportPkg` with `OpenCorePkg` for easier bisection
- Disabled warnings in release versions of NVMe and XHCI drivers