

OpenCore Bootloader aktuelle und ältere Versionen

Beitrag von „Noir0SX“ vom 24. Mai 2019, 17:16

OpenCorePkg

<https://github.com/acidanthera/OpenCorePkg>

Im Forum

- [Anleitungen und Builds](#)
- [Apps und Tools](#)
- [Hilfe und Diskussionen](#)

Credits

- The HermitCrabs Lab
- All projects providing third-party code (refer to file headers)
- [Download-Fritz](#)
- [Goldfish64](#)
- [savvamirofanov](#)
- [vit9696](#)

Beitrag von „Noir0SX“ vom 24. Mai 2019, 17:17

v0.0.1

- Initial developer preview release

WARNING: This release is a developer preview, i.e. it targets experienced engineers and developers. Configuration and feature set are under works, i.e. refinements are expected to happen with 1.0.0 release.

Beitrag von „Noir0SX“ vom 24. Mai 2019, 17:18

v0.0.2

- Documentation improvements (see Differences.pdf)
- Platform information database updates
- Fixed misbehaving Debug -> Target enable bit
- Added `ResetLogoStatus` ACPI quirk
- Added `SpoofVendor PlatformInfo` feature
- Replaced `ExposeBootPath` with `ExposeSensitiveData`
- Added builtin implementation of Data Hub protocol
- Dropped `UpdateSMBIOSMode Auto` mode in favour of `Create`
- Fixed SMBIOS CPU detection for Xeon and Core models
- Moved `ConsoleControl` configuration to `Protocols`
- Added `Security` -> [ScanPolicy](#) preference
- Fixed invalid `board-rev` exposure in Data Hub
- Fixed SMBIOS Type 133 table exposure
- Added support for SMBIOS Type 134 table exposure

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Beitrag von „Noir0SX“ vom 3. Juli 2019, 15:39

v0.0.3

- Added complete modern platform database (2012+)
- Added `DisableIoMapper` kernel quirk
- Fixed ACPI modification failures with nested multiboot
- Dropped `IgnoreForWindows` quirk legacy
- Added basic AMD Zen CPU support
- Added `Misc` -> `Tools` section to add third-party tools
- Added `Kernel` -> `Emulate` section for CPUID patches
- Added `CustomSMBIOSGuid` quirk for Custom SMBIOS update mode
- Added `PanicNoKextDump` quirk to avoid kext dump in panics
- Switched to EDK II stable and reduced image size

- Added `LapicKernelPanic` kernel quirk
- Added `AppleXcpmExtraMsrs` quirk and improved XCPM patches
- Added `(external)` suffix for external drives in boot menu
- Added `UsePicker` option, do enable for OC boot management
- Added `nvr.plist` loading for legacy and incompatible platforms
- Improved instructions for legacy and Windows installation
- Added Windows Boot Camp switching support
- Added basic hibernation detection & support
- Added `ResetHwSig` ACPI quirk to workaround hibernation
- Removed `Custom` subfolder requirement from ACPI tables
- Fixed kext injection in 10.7.x and 10.8.x
- Added ESP partition type detection to [ScanPolicy](#)
- Added support for third-party user interfaces

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Beitrag von „Noir0SX“ vom 11. August 2019, 12:40

v0.0.4

- Fixed kext injection issues with dummy dependencies
- Fixed kext injection issues with reused vtables
- Fixed Custom SMBIOS table update patches
- Added timestamp to the log file and changed extension to txt
- Enhanced `LogoutHook` script used for emulated NVRAM saving
- Fixed multiple operating system support in APFS containers
- Added `AvoidHighAlloc` UEFI quirk to avoid high memory allocs
- Updated builtin firmware versions for 10.15 beta support
- Added `Booter` section for Apple bootloader preferences
- Dropped `AptioMemoryFix.efi` support for `Booter` and `FwRuntimeServices.efi`
- Fixed hibernation issues in Windows with `RequestBootVarRouting`
- Significantly improved boot stability on APTIO
- Added support for Windows & OpenCore on the same drive through `BlessOverride`
- Added advanced user-specified boot entries through `Misc -> Entries`
- Added `DisableVariableWrite` quirk to disable hardware NVRAM write in macOS

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Beitrag von „Noir0SX“ vom 7. September 2019, 15:49

v0.5.0

- Added builtin firmware versions for new models 2019
- Fixed LogoutHook leaving random directories in \$HOME
- Fixed FSBFrequency calculation on Xeon Scalable CPUs (thx [@mrmiller](#))
- Fixed ARTFrequency specifying on Intel server and atom models
- Increased log size to 256 KB by default
- Added ReplaceTabWithSpace quirk to improve Shell experience
- Added ClearScreenOnModeSwitch quirk to avoid visual glitches
- Added MISC_PWR_MGMT patch to AppleXcpmExtraMsrs quirk (thx [@mrmiller](#))
- Added DevirtualiseMmio quirk to Booter section
- Added FileVault 2 user interface protocols formerly in AppleUISupport
- Improved kernel patch logging to include configuration comments
- Added MSFT basic data and Linux root fs recognition to [ScanPolicy](#)
- Fixed RT region protection restoration regression (thx Sniki)
- Added OPT, CMD+R, CMD+OPT+P+R boot action hotkey support
- Added PollAppleHotKeys to register boot.efi hotkeys in the picker
- Added DisableSingleUser quirk to prohibit single user mode
- Upgraded EDK II base package to edk2-stable201908
- Prohibited argument changing by BootNext

Beitrag von „Noir0SX“ vom 8. Oktober 2019, 16:35

v0.5.1

- Added support of kernel resource kext injection
- Added support for 0.25% clock slowdown on Xeon Scalable CPUs (thx [@mrmiller](#))
- Replaced MatchKernel with MinKernel and MaxKernel
- Added Arguments to Tools and Entries sections
- Fixed broken timer for 300 series Intel chipsets

- Added `Input` section for mouse and keyboard aggregation
-

Beitrag von „Noir0SX“ vom 31. Oktober 2019, 09:01

v0.5.2

- Fixed `MinKernel` and `MaxKernel` logic (thx [@dhinakg](#), [@reitermarkus](#))
- Fixed ASSERT when booting non-Apple OSES without arguments from the DEBUG version
- Added `MmioWhitelist` configuration option
- Added `PowerTimeoutKernelPanic` kernel quirk
- Fixed erratic cursor appearing in release builds
- Moved `ReconnectOnResChange` to a user-configurable quirk to avoid freezes
- Added OpenCore version to picker ui, configured by `ExposeSensitiveData`
- Added hypervisor CPUID support to work with virtualization (thx [@Leoyzen](#))

Please note that newly found issues may be fixed in the [development version](#).

Beitrag von „Noir0SX“ vom 2. Dezember 2019, 17:32

v0.5.3

- Update builtin firmware versions
- Fixed interpreting letters in boot menu
- Fixed timeout abortion with `PollAppleHotKeys` quirk
- Fixed rare kext injection failure due to plist-only kext in prelinkedkernel
- Fixed error reporting for dmg loading
- Added various debugging improvements
- Added new crypto stack resulting in vault key format changes
- Added `UnblockFsConnect` UEFI quirk to fix missing filesystems on some laptops
- Added `RequestBootVarFallback` UEFI quirk to circumvent firmware boot option issues
- Added `ThirdPartyDrives` kernel quirk fixing SSD trim and 10.15 SATA hibernation (thx [@lvs1974](#))
- Removed `ThirdPartyTrim` kernel quirk in favour of `ThirdPartyDrives`
- Added Intel Xeon E5 (Broadwell-EP) support (thx [@crazyi](#))
- Switched to edk2-stable201911, which is now the minimum supported EDK II version

Please note that newly found issues may be fixed in the [development version](#).

Beitrag von „Noir0SX“ vom 13. Januar 2020, 17:09

v0.5.4

- Added Enter key handling in boot menu for quick proceed
- Update builtin firmware versions
- Bundled FwRuntimeServices driver with OpenCore
- Allowed writing to non-volatile variables with disabled write
- Fixed microcode reading on Intel CPUs
- Fixed SMBIOS Type4 External Clock values
- Improved Windows compatibility on some setups ([acidanthera/bugtracker#614](#))
- Added SupportsCsm and option in PlatformInfo/Generic
- Added OSInfo protocol support
- Added SignalAppleOS Booter quirk to enable IGPU on Macs in other OS
- Added AppleSmcIoprotocol support (replaces VirtualSmc UEFI driver)
- Added AuthRestart security property for VirtualSMC authenticated restart
- Fixed input protocol initialisation on VMware fusion
- Added arrow key handling in boot menu
- FileVault 2-like key input is now the only supported input in boot menu
- Fixed 5 second delay when exiting Shell to OpenCore Picker
- Added default boot option update and AllowSetDefault Security option
- Fixed CPU package detection on configurations with multiple CPUs
- Bundled CleanNvram and VerifyMsrE2 tools for debugging
- Added screen clearing after choosing boot entry in picker
- Added WriteFlash NVRAM option to enable writing variables in Add
- Added LegacyOverwrite NVRAM option to allow overwriting variables by nvram.plist
- Added AppleXcpmForceBoost kernel quirk to maximise select Xeon performance
- Bundled NvmExpressDxe and XhciDxe drivers for platforms that need them
- Added IncreasePciBarSize kernel quirk for select platforms with PCI space issues

Please note that newly found issues may be fixed in the [development version](#).

Beitrag von „Noir0SX“ vom 3. Februar 2020, 15:29

v0.5.5

- Fixed CPU bus ratio calculation for Nehalem and Westmere
- Fixed CPU package calculation on MacPro5,1 and similar
- Improved OpenCore rerun detection for new versions
- Fixed loading picker on boot failure when it is hidden
- Added PMC ACPI sample for 300-series chipsets
- Improved driver connection performance on APTIO IV
- Fixed boot option saving in LogoutHook.command
- Added support for OEM information in ExposeSensitiveData
- Improved SanitiseClearScreen to avoid mode switching
- Replaced SupportsCsm with AdviseWindows enabling UEFI mode
- Fixed issues with default boot path selection on some boards
- Update builtin firmware versions
- Fixed AdviseWindows not setting FirmwareFeatures in NVRAM
- Added TakeoffDelay option for improved action hotkey support
- Added Mac GOP support to ProvideConsoleGop quirk
- Added experimental BuiltinTextRenderer boot option
- Added DummyPowerManagement kernel quirk to disable CPU PM

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

Beitrag von „Noir0SX“ vom 6. April 2020, 15:19

v0.5.7

- Added `TimeMachine` detection to picker
- Added early preview version of `OpenCanopy`
- Fixed FS discovery on NVMe with legacy drivers
- Added `DirectGopCacheMode` option for FB cache policy
- Added `KeyFiltering` option to workaround buggy KB drivers
- Added tool and custom entry separation in audio assistant
- Added `OpenControl` tool to configure full NVRAM access from Shell
- Added `boot.efi` debug protocol support for 10.15.4+
- Added `boot.efi` performance logging for 10.15.4+
- Added `ProtectUefiServices` quirk to fix `DevirtualiseMmio` on Z390
- Replaced `BOOTCAMP` `Windows` with `Windows` to match the original
- Added bundled `OpenShell` originally available as `OpenCoreShell`
- Rework `readlabel` utility into `disklabel` with encoding support
- Renamed `FwRuntimeServices` driver to `OpenRuntime`
- Renamed `AppleUsbKbDxe` driver to `OpenUsbKbDxe`
- Update builtin firmware
- Fixed `PowerTimeoutKernelPanic` on 10.15.4
- Fixed 4K section alignment in `OpenRuntime` to fix Linux booting on SKL
- Introduced `SyncRuntimePermissions` to fix multiple memory permission flaws

- Introduced `RebuildAppleMemoryMap` to fix macOS booting on Dell 5490
 - Removed `ShrinkMemoryMap` in favour of more advanced `RebuildAppleMemoryMap`
 - Marked `EnableWriteUnprotector` as deprecated on modern systems
 - Introduced `ProtectMemoryRegions` to fix memory region handling
 - Removed `ProtectCsmRegion` in favour of `ProtectMemoryRegions`
 - Renamed `PickerAttributes` to `ConsoleAttributes`
 - Introduced `PickerAttributes` as a matter of UI configuration
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Beitrag von „Noir0SX“ vom 4. Mai 2020, 15:40

v0.5.8

- Fixed invalid CPU object reference in SSDT-PLUG
 - Fixed incorrect utilities and resources packaging
 - Fixed `Custom UpdateSMBIOSMode` modifying SMBIOSv3 table
 - Updated docs to cover separating SMBIOS via `UpdateSMBIOSMode`
 - Fixed rendering macOS installer icons in OpenCanopy
 - Added APFS support with Fusion Drive and enhanced security
 - Added AppleEvent mouse support in OpenCanopy
 - Fixed AppleEvent and OpenCanopy compatibility with OVMF TPL restrictions
 - Added mouse drivers to the package as OVMF needs one
 - Added memory region reservation support
 - Added `RtcRw` tool to manipulate RTC memory
 - Added `PatchAppleRtcChecksum` kernel quirk
 - Added `AppleRtcRam` protocol implementation
 - Renamed `Protocols` to `ProtocolOverrides` for clarity
 - Added `ResetSystem` tool to allow shutdown/reset actions in the menu
 - Added experimental `BootProtect Security` option
 - Fixed kext injection in 10.8 installer
 - Added timeout support to OpenCanopy user interface
 - Fixed handling 24-bit screen resolutions
 - Added `Ps2KeyboardDxe` driver for DuetPkg
 - Updated `BootInstall DuetPkg` version (now opensource)
 - Added partial HiDPI support in OpenCanopy
 - Update builtin firmware
 - Fixed invalid checksum checks when creating vault (thx [@dakanji](#))
-

Beitrag von „NoirOSX“ vom 1. Juni 2020, 16:38

v0.5.9

- Added full HiDPI support in OpenCanopy
- Improved OpenCanopy font rendering by using CoreText
- Fixed light and custom background font rendering
- Added `Boot####` options support in boot entry listing
- Removed `HideSelf` by pattern recognising `BOOTx64.efi`
- Added `BlacklistAppleUpdate` to avoid Apple FW updates
- Fixed accidental tool and NVRAM reset booting by default
- Fixed unrecognised select `com.apple.recovery.boot` entries
- Changed NVRAM reset not to erase `BootProtect` boot options
- Improved boot performance when picker UI is disabled
- Enforced the use of builtin picker when external fails
- Fixed warnings for empty NVRAM variables (e.g. `rtc-blacklist`)
- Added `ApplePanic` to store panic logs on ESP root
- Fixed `ReconnectOnResChange` reconnecting even without res change
- Fixed OpenCanopy showing internal icons for external drives
- Fixed OpenCanopy launching Shell with text over it
- Added partial hotkey support to OpenCanopy (e.g. `Ctrl+Enter`)
- Added builtin text renderer compatibility with Shell page mode
- Fixed `FadtEnableReset` with too small FACP tables and some laptops
- Fixed CPU detection crash with QEMU 5.0 and KVM accelerator
- Removed `RequestBootVarFallback` due to numerous bugs
- Added `DeduplicateBootOrder` UEFI quirk
- Removed `DirectGopCacheMode` due to being ineffective
- Fixed assertions on log exhaustion causing boot failures
- Fixed builtin text renderer failing to provide `ConsoleControl`
- Fixed compatibility with blit-only GOP (e.g. OVMF Bochs)
- Fixed ignoring `#` in `DeviceProperty` and NVRAM `Delete`
- Renamed `Block` to `Delete` in `ACPI,DeviceProperties`, and NVRAM
- Added `MacBookPro16,2` and `MacBookPro16,3` model codes
- Added PCI device scanning policy support (e.g. `VIRTIO`)
- Improved playback performance in `AudioDxe`
- Updated builtin firmware versions for SMBIOS and the rest
- Added improved CPU type detection for newer CPU types
- Added `ConfigValidity` utility and improved config validation
- Added serial port initialisation for serial debug logging
- Disabled empty debug log file creation to avoid ESP cluttering
- Added `TscSyncTimeout` quirk to workaround debug kernel assertions
- Added first-class Windows support to bless model

- Fixed `LapicKernelPanic` kernel quirk on 10.9
- Added prebuilt version of `CrScreenshotDxe` driver
- Fixed Hyper-V frequency detection compatibility
- Added `SysReport` option for DEBUG builds to dump system info
- Fixed crashes on some AMD firmwares when performing keyboard input

Beitrag von „Noir0SX“ vom 3. August 2020, 20:36

v0.6.0

- Fixed sound corruption with `AudioDxe`
- Fixed icon choice for Apple FW update in `OpenCanopy`
- Fixed APFS driver loading on Fusion Drive
- Added Comet Lake HDA device code
- Fixed audio stream position reporting on non-Intel platforms
- Added `Firmware` mode to `ResetSystem` to reboot into preferences
- Replaced `BlacklistAppleUpdate` with `run-efi-updater` NVRAM variable
- Fixed reset value and detection in `FadtEnableReset` ACPI quirk
- Fixed freezes during boot option expansion with PXE boot entries
- Updated underlying EDK II package to `edk2-stable202005`
- Added `ProvideMaxSlide` quirk to improve laptop stability, thx [@zhen-zen](#)
- Fixed slide choice on platforms when 0 slide is unavailable, thx [@zhen-zen](#)
- Fixed assertions caused by unaligned file path access in DEBUG builds
- Renamed `ConfigValidity` utility to `ocvalidate` for consistency
- Added `GlobalConnect` for APFS loading to workaround older firmware issues
- Added 11.0 support for `AvoidRuntimeDefrag` Booter quirk
- Fixed 11.0 lapic kernel quirk as of DP1
- Improved boot selection scripts for macOS without NVRAM
- Added UGA protocol compatibility in `ProvideConsoleGop` quirk
- Added `UgaPassThrough` option to support UGA protocol over GOP
- Added `AppleFramebufferInfo` protocol implementation and override
- Fixed serial initialisation when file logging is disabled
- Fixed FSBFrequency reporting on Meron and similar CPUs
- Fixed incorrect volume icon dimension requirements in `OpenCanopy`
- Added preview version of `KernelCollection` injection code
- Fixed ACPI reset register detection in `DxeIpl`
- Added `MacBookPro16,4` model code
- Updated builtin firmware versions for SMBIOS and the rest
- Fixed OSXSAVE reporting when emulating CPUID on newer CPUs
- Added `SerialInit` option to perform serial initialisation separately

- Fixed OpenDuetPkg booting on Intel G33 with SATA controller in RAID mode
- PlatformInfo Automatic for all models
- Fixed 32-bit OpenDuetPkg booting on machines with over 4 GBs of RAM
- Fixed delays with OpenDuetPkg booting with certain SATA controllers in IDE mode
- Fixed display name for some high core count i9 CPUs like 7920X
- Fixed SSDT-EC-USBX

Beitrag von „Raptortosh“ vom 9. April 2021, 10:00

v0.6.8

- Switched to VS2019 toolchain for Windows builds
- Reduced legacy boot install interaction effort
- Increased OpenCanopy rendering performance
- Added OpenCanopy Shut Down and Restart buttons
- Reduced OpenCanopy mouse pointer input lag
- Fixed that cursor bounds could be different from OpenCanopy's
- Improved builtin picker rendering performance
- Added Memory Type decoding for SMBIOS in Automatic mode
- Properly support setting custom entries as default boot options
- Fixed creating log file when root file system is not writable
- Fixed DisableSingleUser not being enabled in certain cases
- Added ForceBooterSignature quirk for Mac EFI firmware
- Fixed OpenCanopy sometimes cutting off shown boot entries
- Further improved CPU frequency calculation on legacy CPUs
- Fixed SMBIOS SMC version encoding sequence
- Added TSC frequency reading from Apple Platform Info
- Added TSC frequency reading for Apple devices with nForce chipsets
- Added Base and BaseSkip lookup for ACPI patches
- Fixed ACPI table magic corruption during patching
- Fixed unnatural OpenCanopy and FileVault 2 cursor movement
- Fixed OpenCanopy interrupt handling causing missed events and lag
- Improved OpenCanopy double-click detection
- Reduced OpenCanopy touch input lag and improved usability
- Improved keypress responsiveness in OpenCanopy and builtin pickers
- Improved non-repeating key detection in OpenCanopy and builtin pickers
- Fixed Escape preventing OpenCanopy fade up until released, on some systems
- Fixed fast repeat then stall issue with key handling on some PS/2 systems
- Added accurate Shift+Enter/Shift+Index detection when using PollAppleHotKeys
- Added 'set default' indicator to builtin picker

- Replaced VerifyMsrE2 with ControlMsrE2 also allowing unlock on some firmwares
- Fixed OpenCanopy flicker when refreshing the entry view
- Added OpenCanopy TAB navigation support
- Added OpenCanopy graphical password interface
- Added OpenCanopy pulsing animation to signal timeout
- Added OpenCanopy 'set default' indicator
- Fixed OpenCanopy not aborting timeout on pointer click
- Fixed OpenCanopy intro animation not scaling with UIScale
- Add OpenCanopy boot entry label scrolling (fixes missing long labels)
- Added tabbable Shutdown and Restart buttons to builtin picker
- Fixed in-firmware shutdown for some systems running OpenDuet
- Added Zero as alias hotkey for Escape, to force show picker if hidden
- Added =/+ key as alias for CTRL to set default OS
- Added additional support for configuring correct key repeat behaviour with KeySupport mode
- Fixed CPU multiplier detection on pre-Nehalem Intel CPUs
- Fixed incorrect handling of multiple processors and processor cache in SMBIOS
- Matched default Apple boot picker cursor start position
- Updated OpenShell `devices` command to support misaligned device names returned by some Apple firmware
- Added `(.dmg)` suffix to DMG boot options in OpenCanopy
- Added identifiers for Rocket Lake and Tiger Lake CPUs
- Added PickerAudioAssist 'disk image' indication
- Fixed PickerAudioAssist indications played twice in rare cases
- Improved OpenCanopy pointer acceleration
- Added more precise control on `AppleEvent` protocol properties and features
- Added dynamic keyboard protocol installation on CrScreenshotDxe
- Support starting UEFI tools with argument support (e.g. `ControlMsrE2`) without arguments from picker
- Fixed OpenCanopy font height calculation, may reject previously working fonts and mitigate memory corruption
- Fixed incorrect identification of Xeon E5XXX/E5-XXXX and Xeon WXXXX/W-XXXX CPUs
- Added RSDP, RSDT, and XSDT handling to `NormalizeHeaders` ACPI quirk

Beitrag von „Raptortosh“ vom 3. Mai 2021, 19:08

v0.6.9

- Fixed out-of-sync cursor movement rectangle when loading e.g. CrScreenshotDxe
- Updated underlying EDK II package to edk2-stable202102

- Applied consistent enforcement of required minimum Apple OEM Apple Event protocol version
- Changed CustomDelays to less surprising boolean setting with failsafe of false
- Changed key repeat failsafes and sample values to Apple OEM values
- Changed PointerSpeedMul failsafe to Apple OEM value
- Updated docs to include configuration of key repeat settings with and without KeySupport
- Prevented 'set default' UI when action not permitted by security config
- Added `ForgeUefiSupport` quirk to workaround legacy EFI 1.x firmwares compatibility
- Added `ReloadOptionRoms` quirk to force-load Option ROMs on PCI devices
- Added `OC_ATTR_USE_MINIMAL_UI` to allow running pickers with no Shutdown and Restart buttons
- Added display of OpenCore version number to OpenCanopy as well as builtin picker, depending on existing ExposeSensitiveData bit
- Added support for case-insensitive argument handling in the UEFI tools
- Added vector acceleration of SHA-512 and SHA-384 hashing algorithms, thx [@MikhailKrichanov](#)
- Fixed wraparound when using arrow keys in OpenCanopy
- Updated builtin firmware versions for SMBIOS and the rest
- Added bundled Linux versions for userspace utilities
- Fixed fallback SMBIOS `Manufacturer` value to `NO_DIMM` for empty slots
- Fixed assertions when running OpenCanopy with low resolution, will fallbacks to builtin now

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

Beitrag von „Raptortosh“ vom 6. Juli 2021, 09:41

v0.7.1

- Added `SyncTableIds` quirk to sync modified table OEM identifiers
- Added CPU Info (MSRs) dumping to `SysReport`
- Updated builtin firmware versions for SMBIOS and the rest
- Fixed `PowerTimeoutKernelPanic` on macOS 12
- Fixed transparency click detection on `OpenCanopy` boot entries
- Added PCI device info dumping to `SysReport`
- Fixed `SetApfsTrimTimeout` on macOS 12
- Documented requirement for `SetDefault.icns` width to match `Selector.icns` width
- Added explicit warn and safe fallback to builtin picker on failure to match the above
- Added VSCode source level IDE debug config example to debug docs
- Added other minor debug docs updates
- Fixed incorrect timeout of built-in picker on IA32
- Added support for custom kernels on ESP partition
- Fixed `DEBUG ASSERT` on pressing change entry keys with single boot entry in `OpenCanopy`
- Added recommended `Apple12` and `Windows11` flavours
- Added `TpmInfo` tool to `DEBUG` TPM status

- Fixed incorrect OpenCanopy initial display when default entry beyond right of screen
 - Fixed `ProvideCurrentCpuInfo` MSR patch on macOS 12
 - Fixed `AppleXcpmForceBoost` patch on macOS 12
-

Beitrag von „Raptortosh“ vom 8. September 2021, 23:46

v0.7.3

- Improved SSDT-PNLF compatibility with CFL+ graphics
 - Fixed OpenCanopy performance loss due to redrawing introduced in 0.6.9
 - Added pattern-based automatic variable initialisation for better security
 - Updated underlying EDK II package to `edk2-stable202108`
 - Updated Apple Secure Boot variables for `x86legacy`
 - Updated Linux variants in `Flavours.md`
 - Implemented Boot Entry Protocol, allowing plug-in boot entry drivers
 - Added `StringBuffer` and `FlexArray` libraries
 - Updated Drivers to support arguments (requires `config.plist` update, see samples)
 - Added OpenLinuxBoot driver: OC-native Linux autodetect and boot without chaining via GRUB
 - Fixed overlong boot entry names breaking text flow in builtin menu
 - Added `ForceOcWriteFlash` UEFI quirk to enable writing OC system variables
-

Beitrag von „Raptortosh“ vom 2. November 2021, 21:43

v0.7.4

- Fixed Linux kernel sort order
- Added Linux detection optional log detail
- Fixed CPU core count detection for more legacy CPUs
- Added ability to fully override autodetect Linux boot options
- Added large BaseSystem support in `AdviseFeatures`
- Updated builtin firmware versions for SMBIOS and the rest
- Added tool to extract vendor secure boot certificate from GRUB shim file
- Added `BridgeOSHardwareModel` NVRAM variable to fix T2 SB AP models on macOS 12
- Changed `Default` Apple Secure Boot model to match SMBIOS for macOS 12
- Fixed `opencore-version` not being added to NVRAM variables

Beitrag von „Raptortosh“ vom 2. November 2021, 21:44

v0.7.5

- Revised OpenLinuxBoot documentation
- Supported Linux ostree boot layout
- Fixed external drive icons for Boot Entry Protocol
- Added GPU Resize BAR quirks to reduce BARs on per-OS basis
- Fixed OpenLinuxBoot hang bug after correct detection of some [distros](#)
- Added DMG signature check during download, thx [@jspraul](#) and [@zhangyoufu](#)
- Updated builtin firmware versions for SMBIOS and the rest
- Updated recovery downloading commands to include macOS 11 and 12

Beitrag von „Raptortosh“ vom 22. August 2022, 20:03

- v0.8.3
- Added ext4 file system driver
- Added support for macOS 13 DP3 Kernel Collection
- Added --force-device option to AudioDxe, allowing UEFI audio on HDA controllers which misreport themselves as non-HDA audio devices
- Provided optional unsafe fast file logging (suitable only for firmware with a fully compliant FAT32 driver)
- Fixed incorrect OSBundleLibraries_x86_64 handling during cacheless injection
- Changed RsaTool not to link against system ssl on macOS
- Fixed crash during cacheless injection when kext blocking is enabled
- Removed default codec connection delay from AudioDxe
- Added optional --codec-setup-delay argument to AudioDxe
- Changed units of Audio -> SetupDelay from microseconds to milliseconds (divide previous value by 1000 if using this setting)
- Fixed incorrect FAT binary slice being selected under macOS 10.4.11 when performing a cacheless boot
- Fixed rare assertion caused by label animation initialisation in OpenCanopy
- Added --show-csr option for Toggle [SIP](#) boot menu entry
- Added macOS 10.4 and 10.5 support to AllowRelocationBlock Booter quirk
- Added CPU cache info injection for macOS 10.4 to ProvideCurrentCpuInfo quirk
- Added emulated NVRAM driver for use separately from OpenDuet

- Added support for NVRAM reset and set default boot entry when using emulated NVRAM
- Upgraded emulated NVRAM logout script to allow unsupervised installation of recent macOS OTA updates
- Added Driver -> LoadEarly for drivers which need to be loaded before NVRAM init