
Hackintool

The Swiss army knife of vanilla Hackintoshing

WARNING!

Hackintool is not an automated patching tool that does all the work for you. Knowledge is required on how to patch before using it. Please read the Intel Framebuffer patching using WhateverGreen guide before you download this tool! I also recommend reading @jaymonkey's An iDiot's Guide To Lilu and its Plug-ins and @CaseySJ's General Framebuffer Patching Guide using Hackintool.

Mojave, Lilu + WhateverGreen

You cannot use the Clover's KextsToPatch for framebuffer patching in Mojave for Skylake and above

Framebuffer Dumps

There are a few ways to dump your framebuffer data (the second two require WhateverGreen + Lilu debug versions) to read in Hackintool:

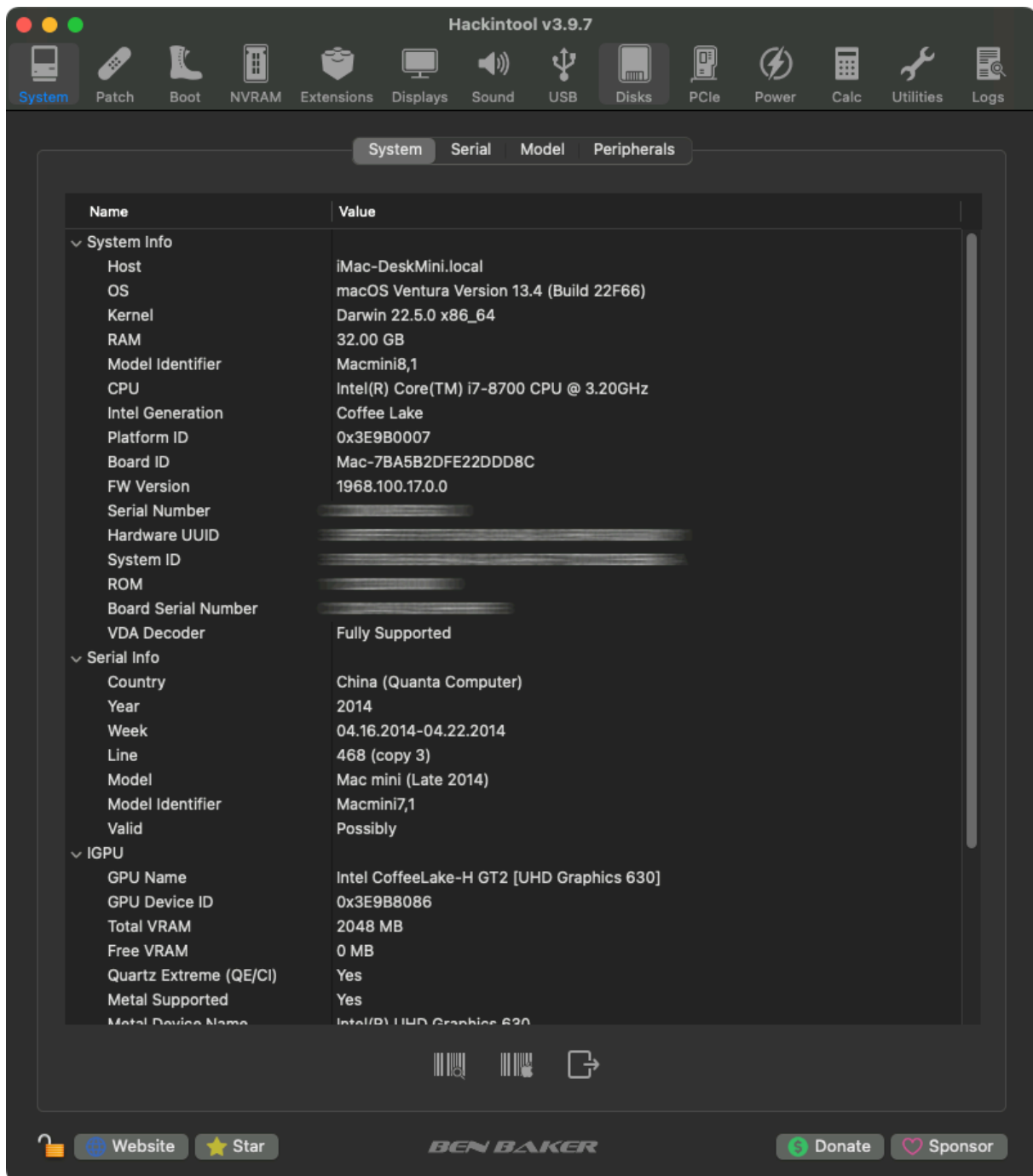
1. Use the Framebuffer->macOS 10.13.6 / Framebuffer->macOS 10.14 menu to create patches without a framebuffer dump
2. Use the **-igfxdump** boot flag to dump IGPU framebuffer kext to /AppleIntelFramebuffer_X_Y (root of your boot drive) and then File->Open menu
3. Use the **-igfxfbdump** boot flag to dump native and patched framebuffer table to ioreg and then File->Import->IOReg Dump menu

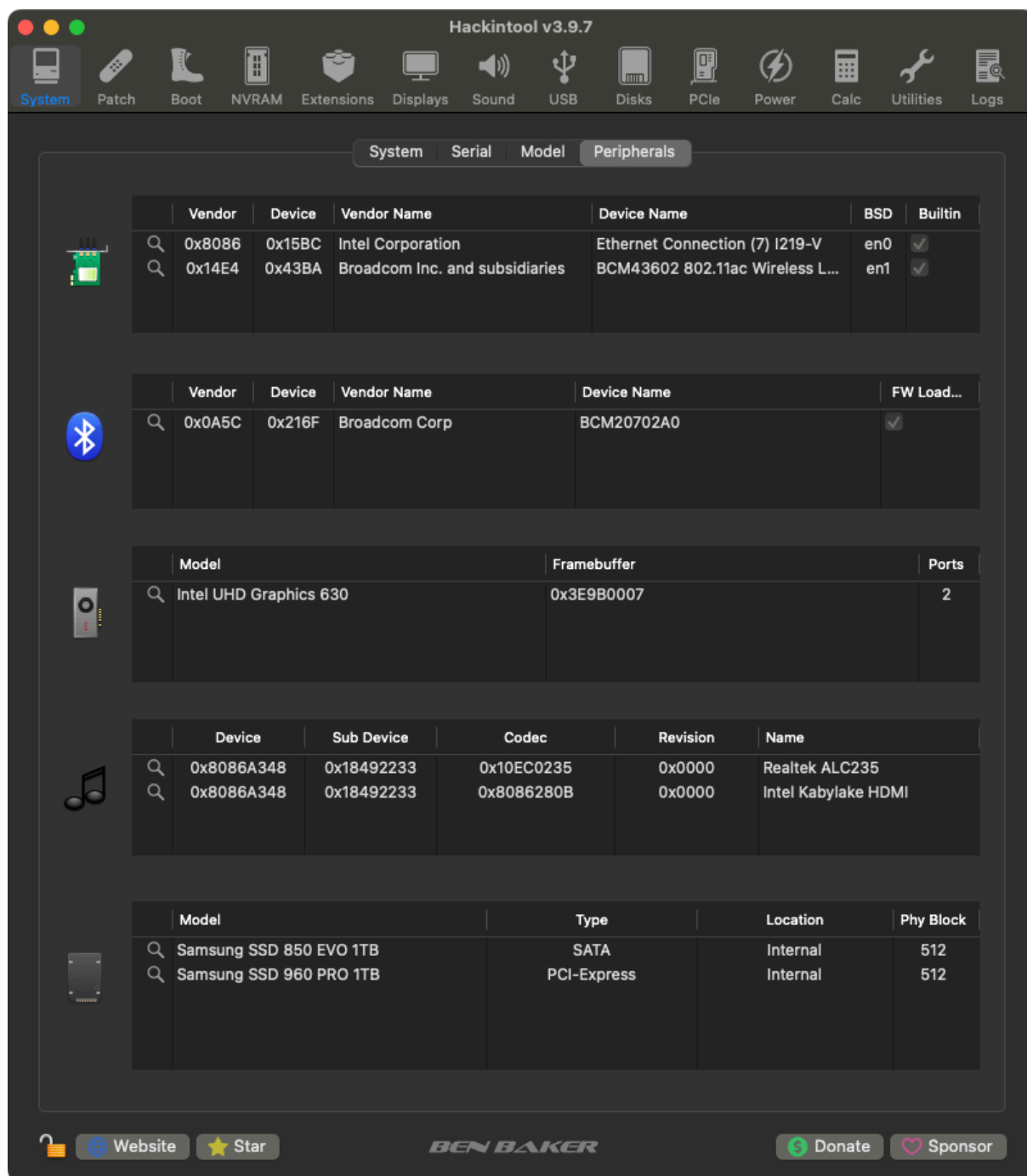
Features

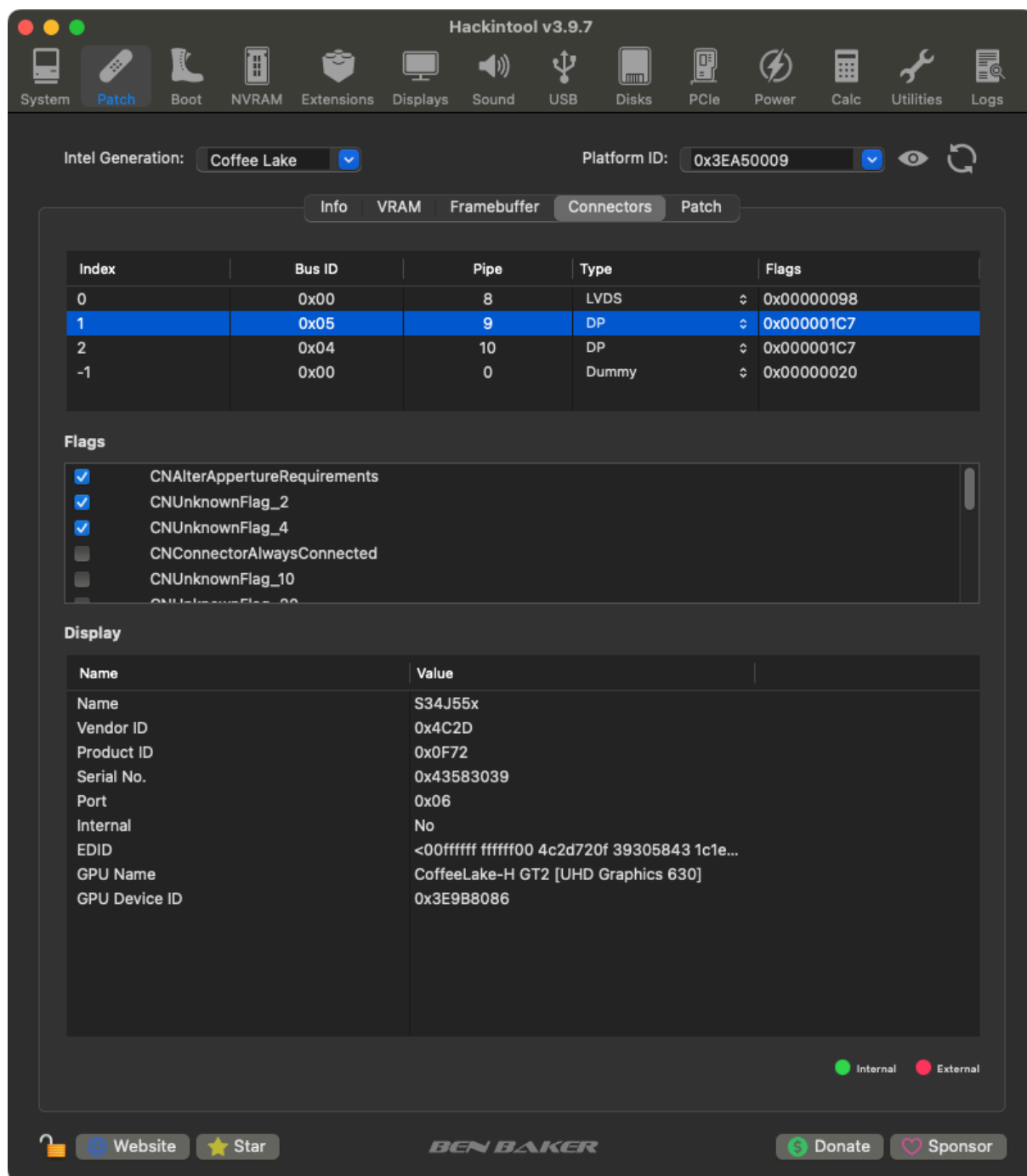
- Supports Sandy Bridge, Ivy Bridge, Haswell, Broadwell, Skylake, Kaby Lake, Coffee Lake, Cannon Lake and Ice Lake generations
- Create All, Connectors or VRAM patches
- Detect Changes for auto patch creation
- Create Clover patches in hex, base64 or Devices/Properties formats
- Displays native GPU and Model identifiers
- Display and edit Memory Info such as Stolen, Framebuffer, VRAM, Cursor etc.
- Roll over some items for additional info (Tooltips)

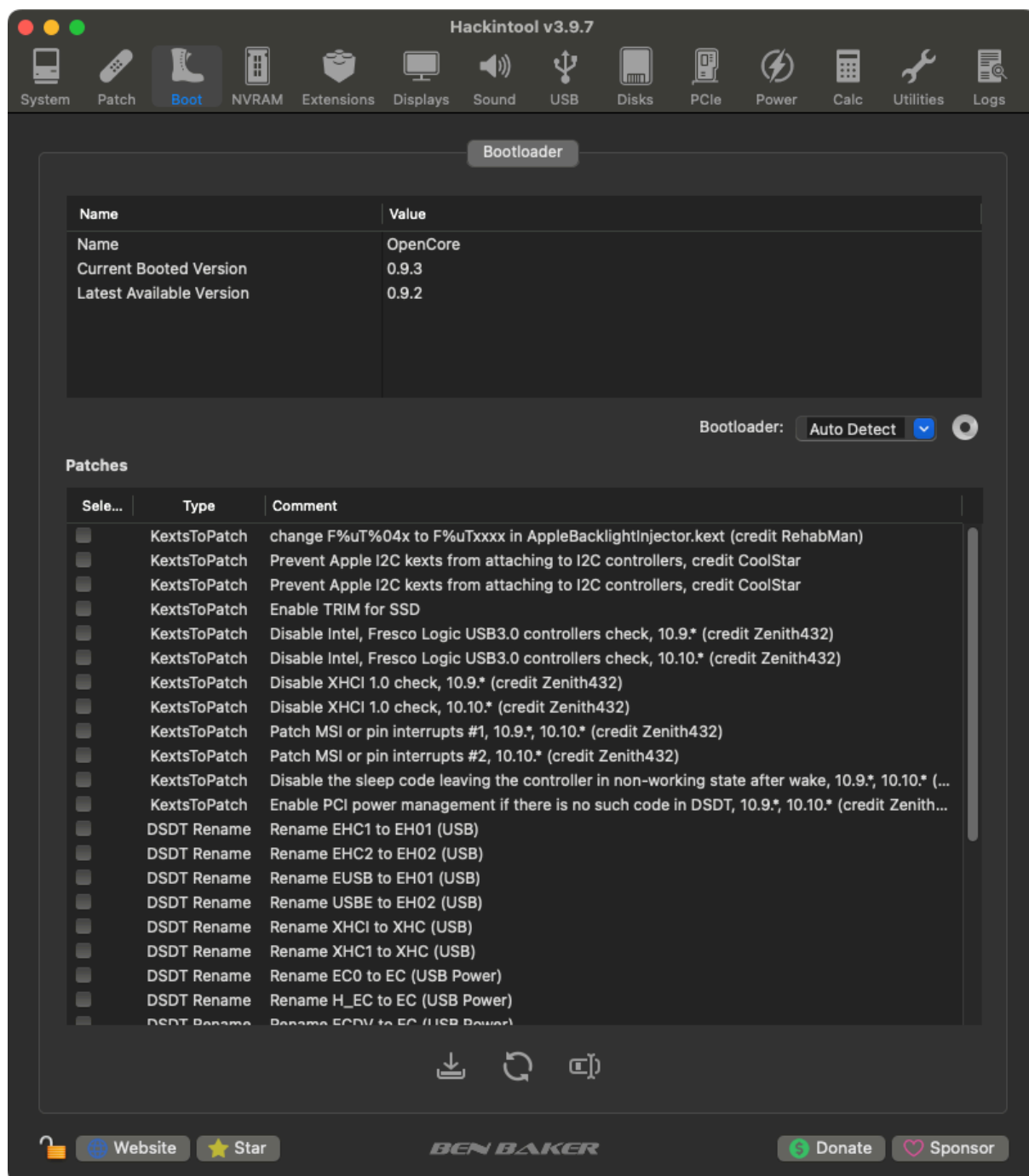
-
- Reads “live” data directly from Framebuffer kexts (if available; see Mojave note below)
 - File->Open framebuffer file generated by WhateverGreen’s -igfxdump boot flag
 - File->Export->Clover config.plist / File->Export->Framebuffer.txt file
 - Patch audio layout id
 - Add USB port limit patch
 - Plug and unplug USB2 / USB3 devices and set port connector types then generate a USB-Ports.kext
 - Advanced patching options (DVMT pre-alloc 32 MB, VRAM 2048 MB, Disable eGPU, Enable HDMI20 (4K), DP -> HDMI, GfxYTile Fix, Reboot Fix, USB port Limit, Spoof Audio Device Id, FB Port Limit, Spoof Gfx Device Id)

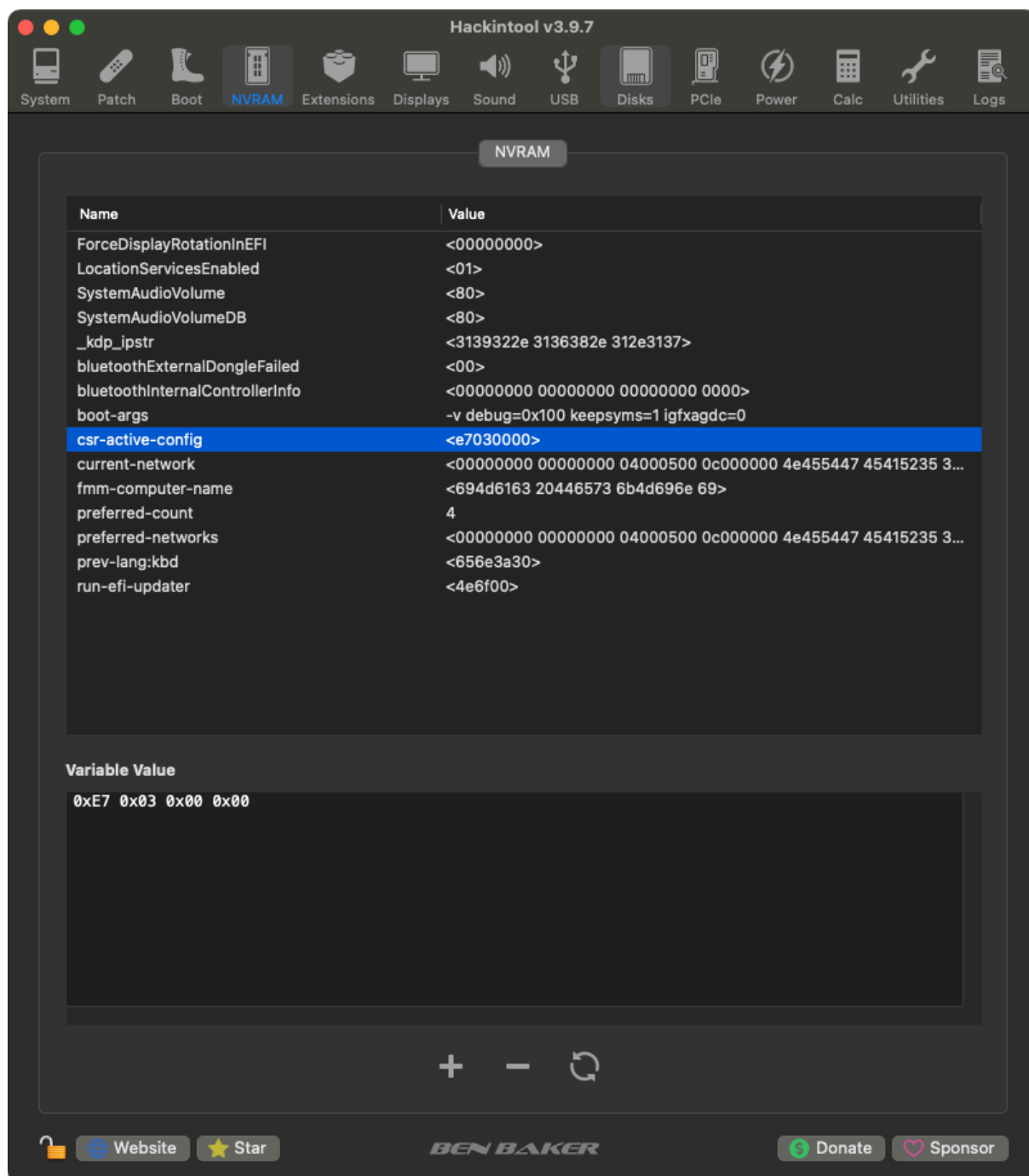
Screenshots

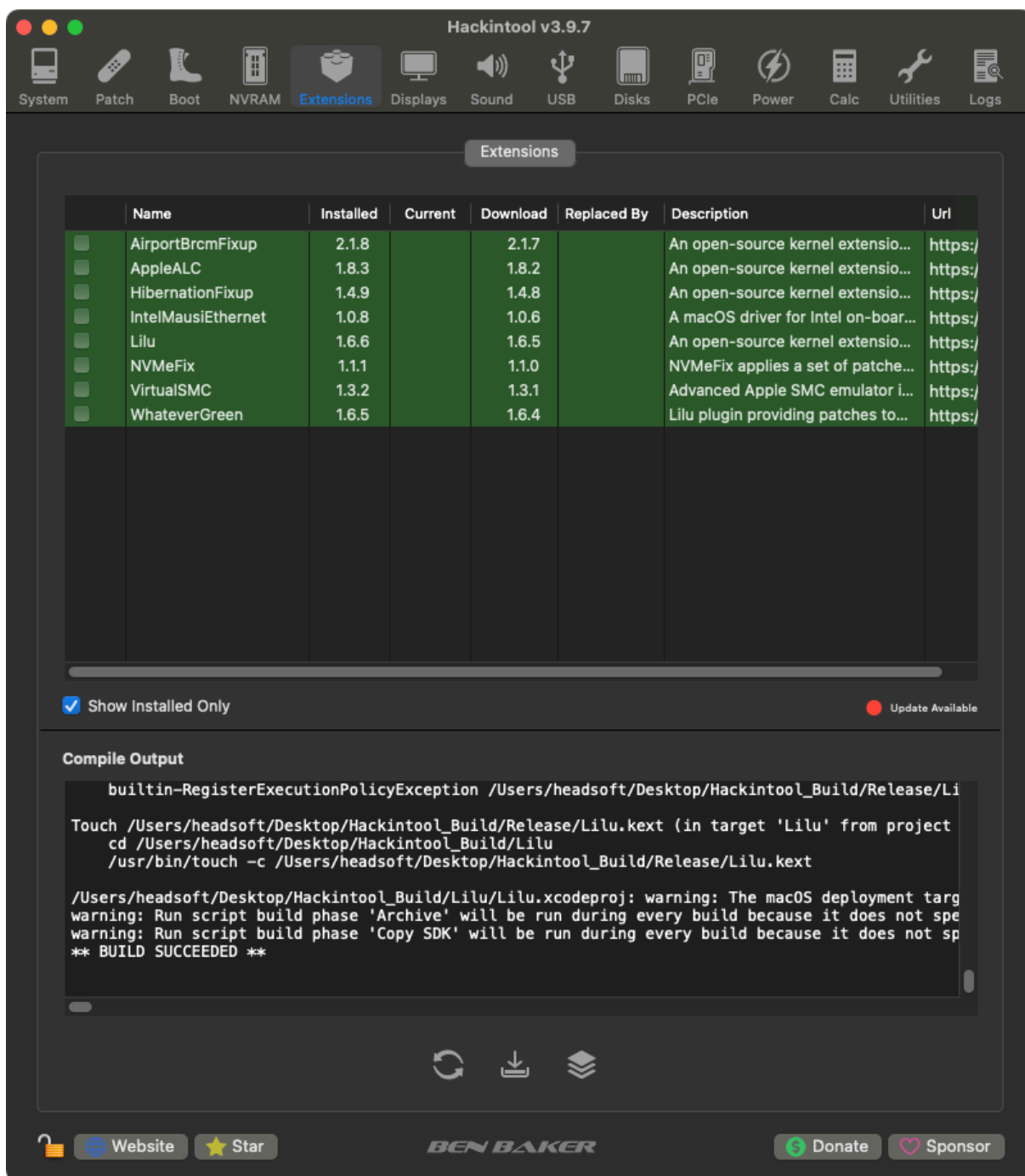


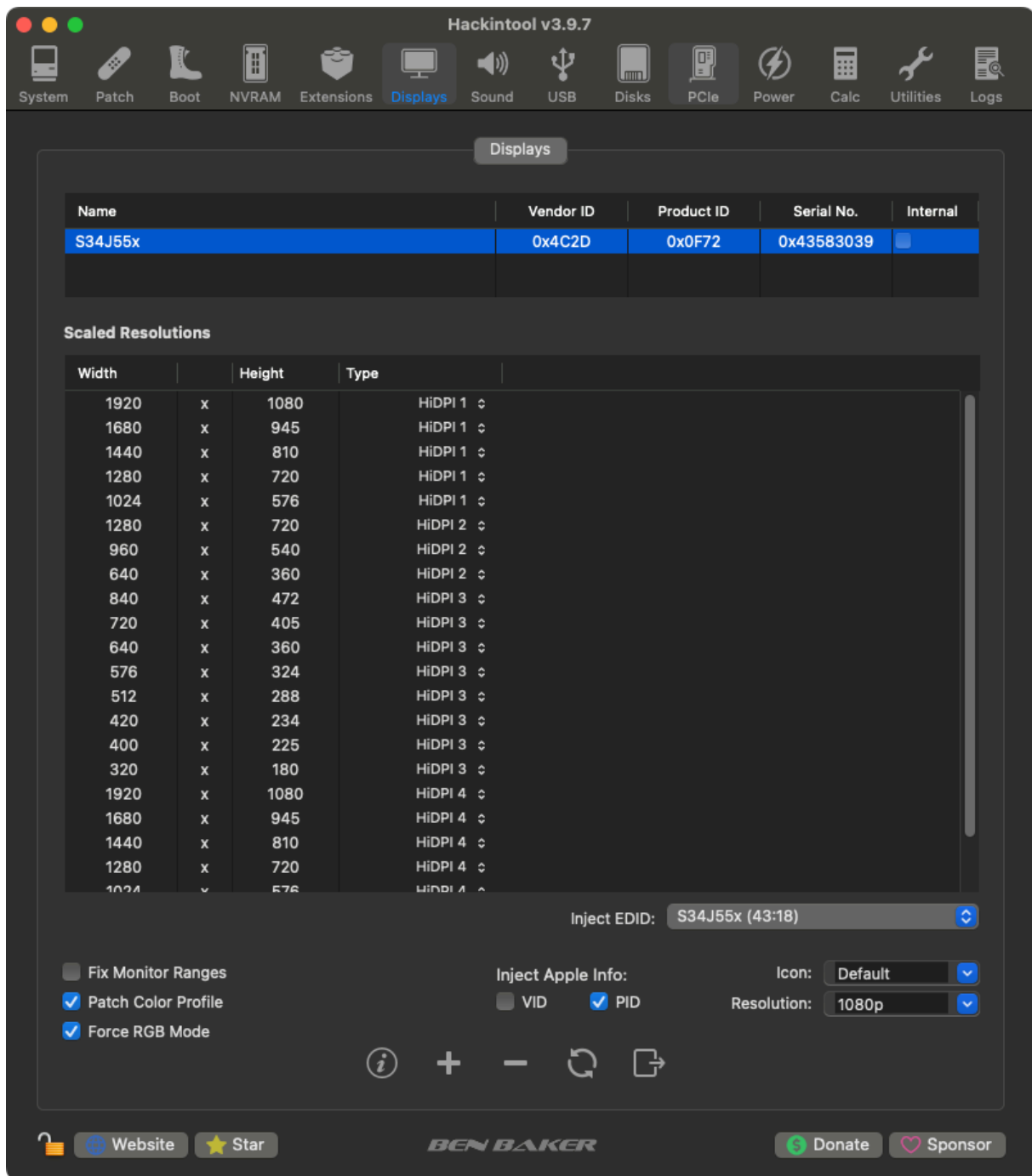


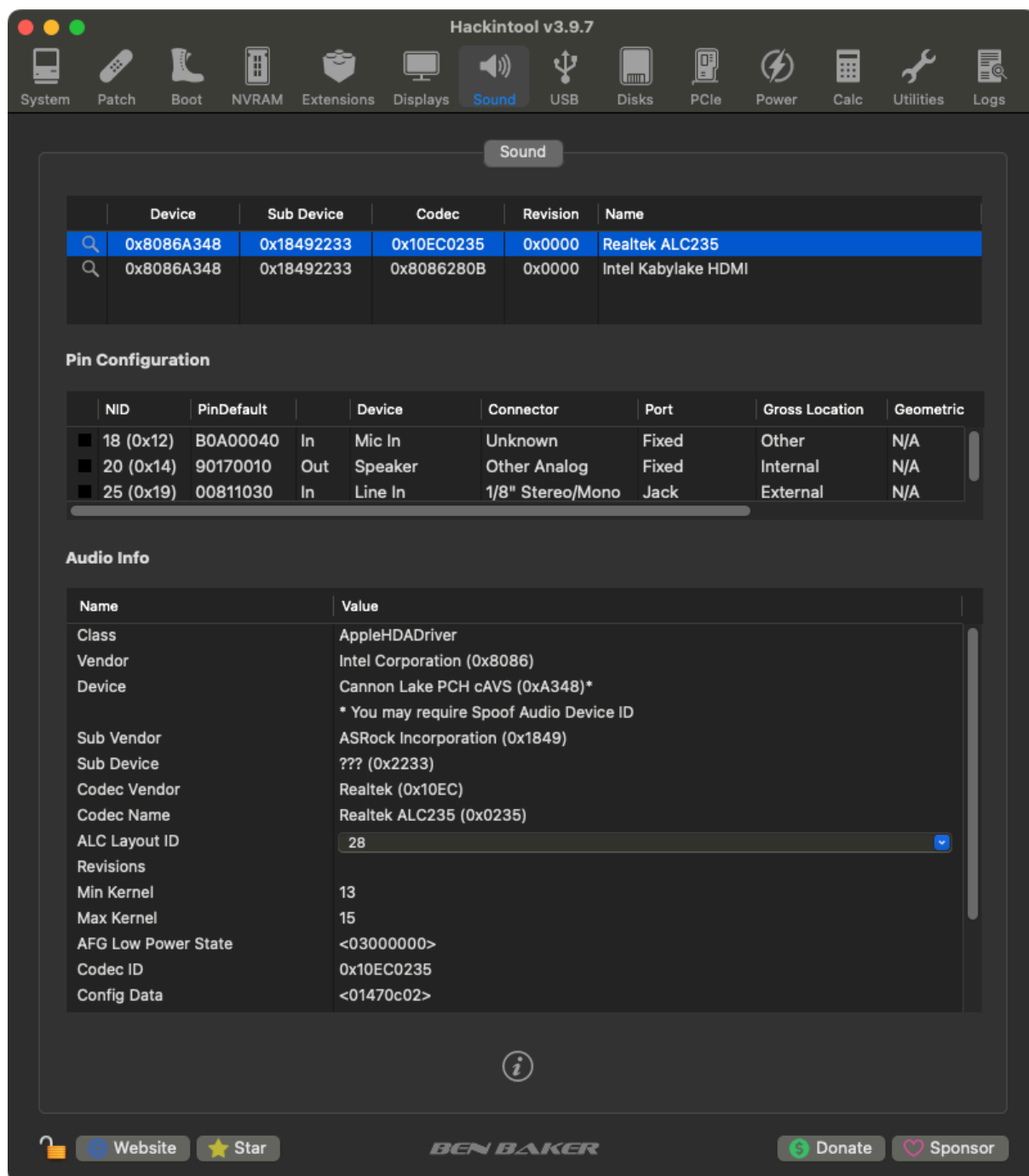


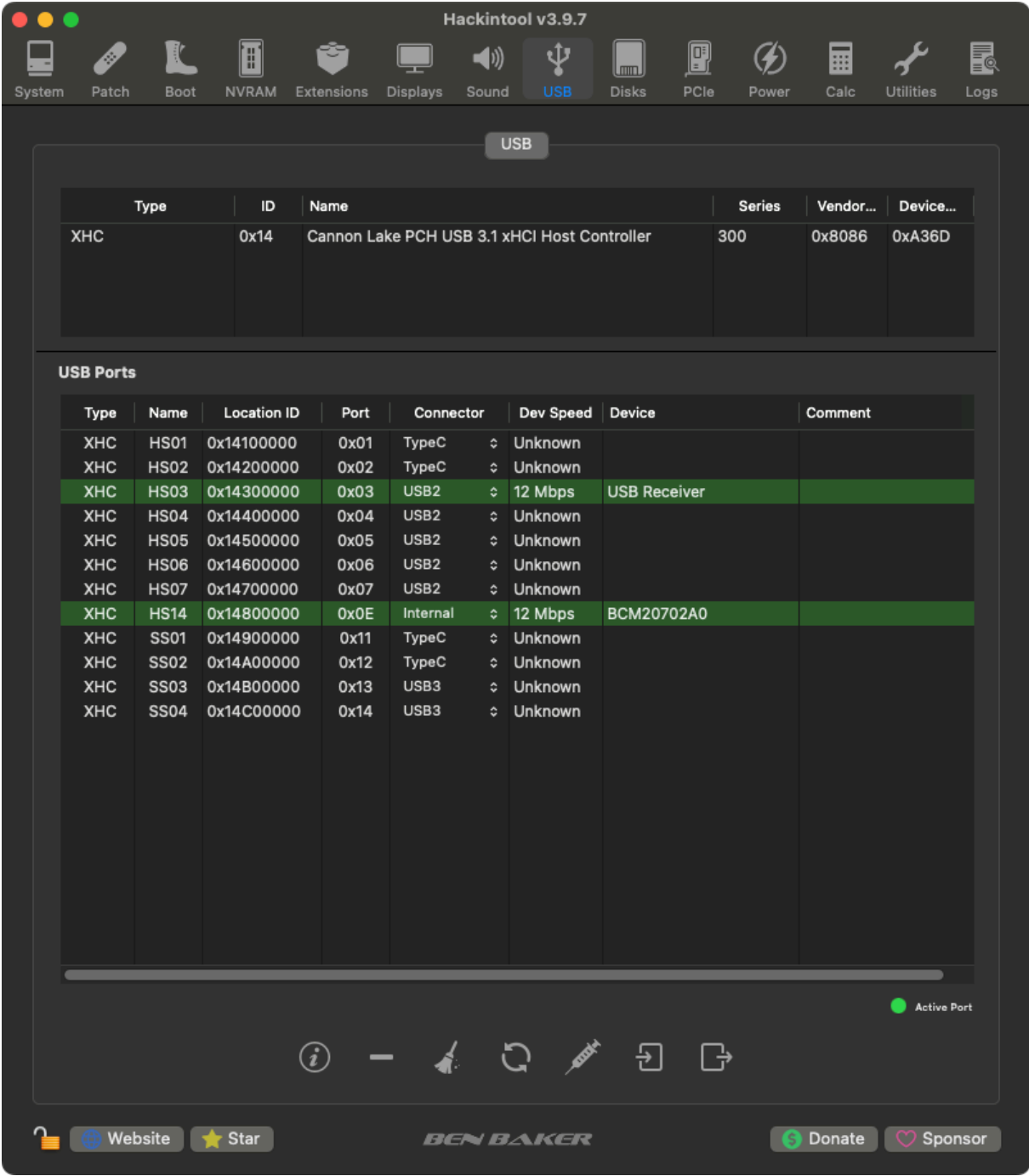


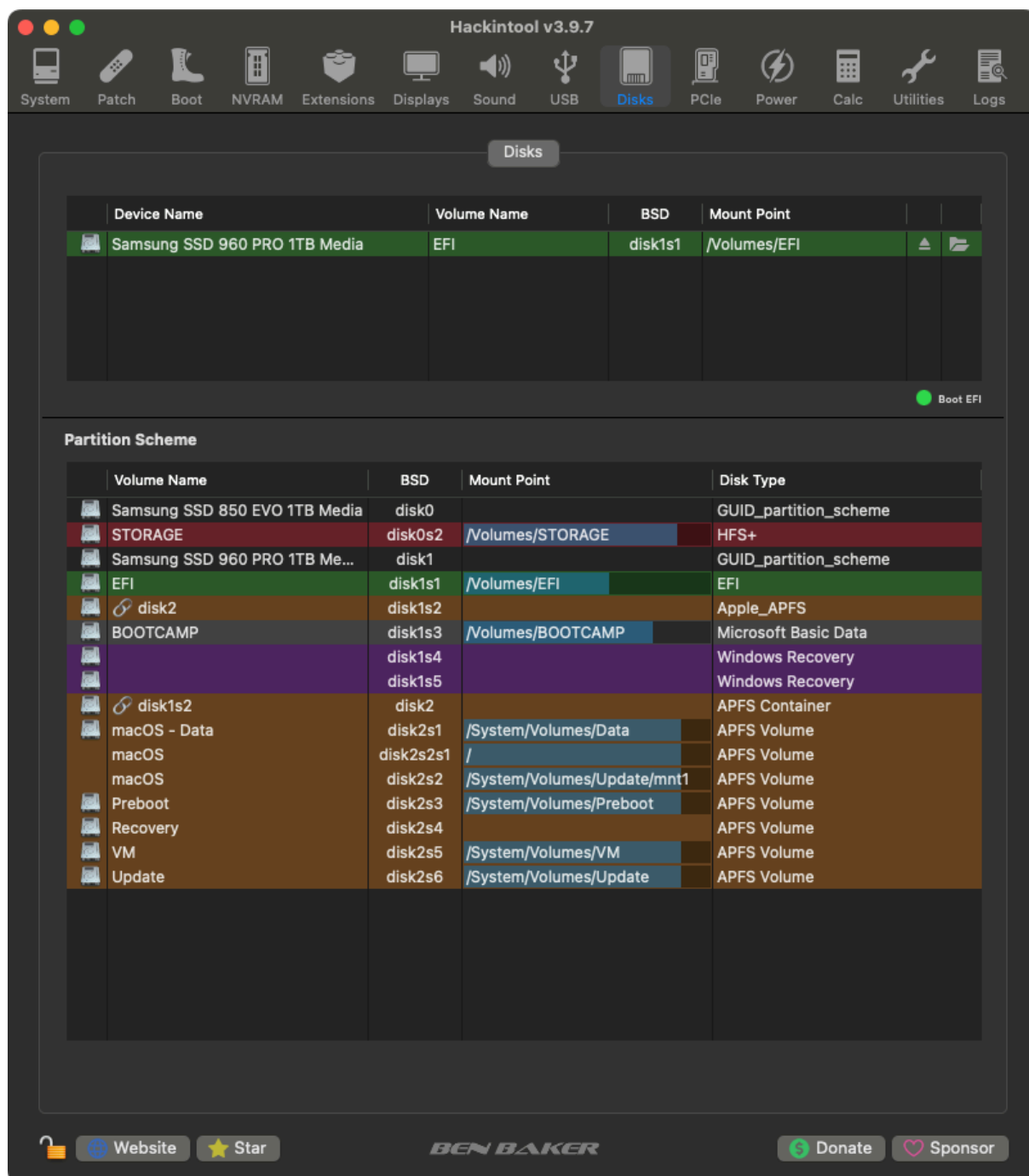












Hackintool v3.9.7

System

Patch

Boot

NVRAM

Extensions

Displays

Sound

USB

Disks

PCIe

Power

Calc

Utilities

Logs

PCIe

	Debug	Vendor	Device	Sub Ven...	Sub Devi...	ASPM	Vendor Name	Device Name	Class
🔍	00:00.0	0x8086	0x3EC2	0x1849	0x3EC2	Disabled	Intel Corporation	8th Gen Core...	Bridge
🔍	00:01.0	0x8086	0x1901	0x0000	0x0000	Disabled	Intel Corporation	6th-10th Gen...	Bridge
🔍	00:02.0	0x8086	0x3E9B	0x1849	0x3E92	Disabled	Intel Corporation	Intel CoffeeLak...	Display co...
🔍	00:12.0	0x8086	0xA379	0x1849	0xA379	Disabled	Intel Corporation	Cannon Lake P...	Signal pro...
🔍	00:14.0	0x8086	0xA36D	0x1849	0xA36D	Disabled	Intel Corporation	Cannon Lake P...	Serial bus...
🔍	00:14.2	0x8086	0xA36F	0x1849	0xA36F	Disabled	Intel Corporation	Cannon Lake P...	Memory c...
🔍	00:14.5	0x8086	0xA375	0x1849	0xA375	Disabled	Intel Corporation	???	Generic sy...
🔍	00:16.0	0x8086	0xA360	0x1849	0xA360	Disabled	Intel Corporation	Cannon Lake P...	Communic...
🔍	00:17.0	0x8086	0xA352	0x1849	0xA352	Disabled	Intel Corporation	Cannon Lake P...	Mass stor...
🔍	00:1C.0	0x8086	0xA33E	0x0000	0x0000	Disabled	Intel Corporation	Cannon Lake P...	Bridge
🔍	00:1F.0	0x8086	0xA303	0x1849	0xA303	Disabled	Intel Corporation	H310 Chipset...	Bridge
🔍	00:1F.3	0x8086	0xA348	0x1849	0x2233	Disabled	Intel Corporation	Cannon Lake P...	Multimedi...
🔍	00:1F.4	0x8086	0xA323	0x1849	0xA323	Disabled	Intel Corporation	Cannon Lake P...	Serial bus...
🔍	00:1F.5	0x8086	0xA324	0x1849	0xA324	Disabled	Intel Corporation	Cannon Lake P...	Serial bus...
🔍	00:1F.6	0x8086	0x15BC	0x1849	0x15BC	Disabled	Intel Corporation	Ethernet Conn...	Network c...
🔍	01:00.0	0x144D	0xA804	0x144D	0xA801	Disabled	Samsung Elect...	NVMe SSD Co...	Mass stor...
🔍	02:00.0	0x14E4	0x43BA	0x106B	0x0019	Disabled	Broadcom Inc....	BCM43602 80...	Network c...

📄

📁

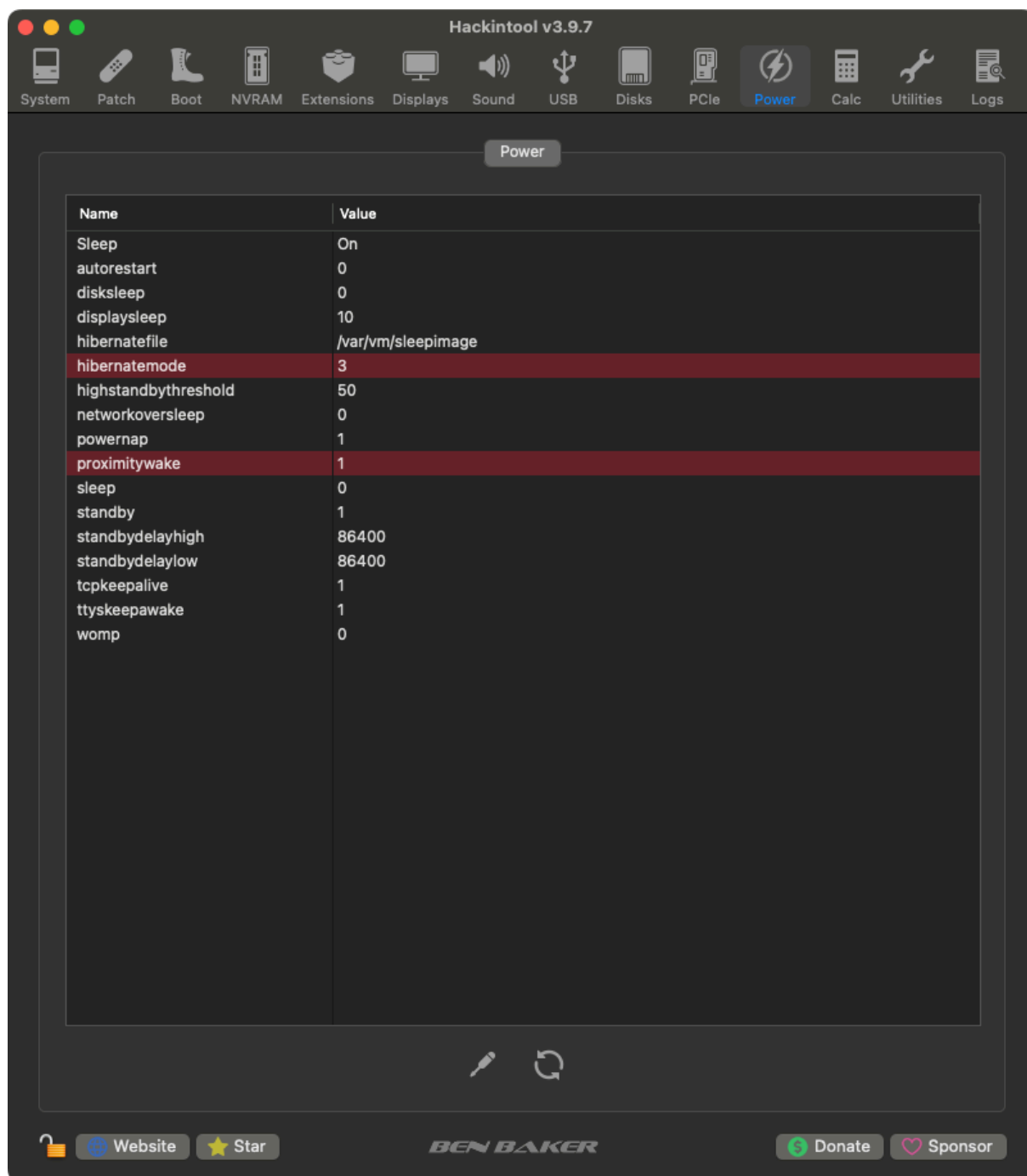
🔗 Website

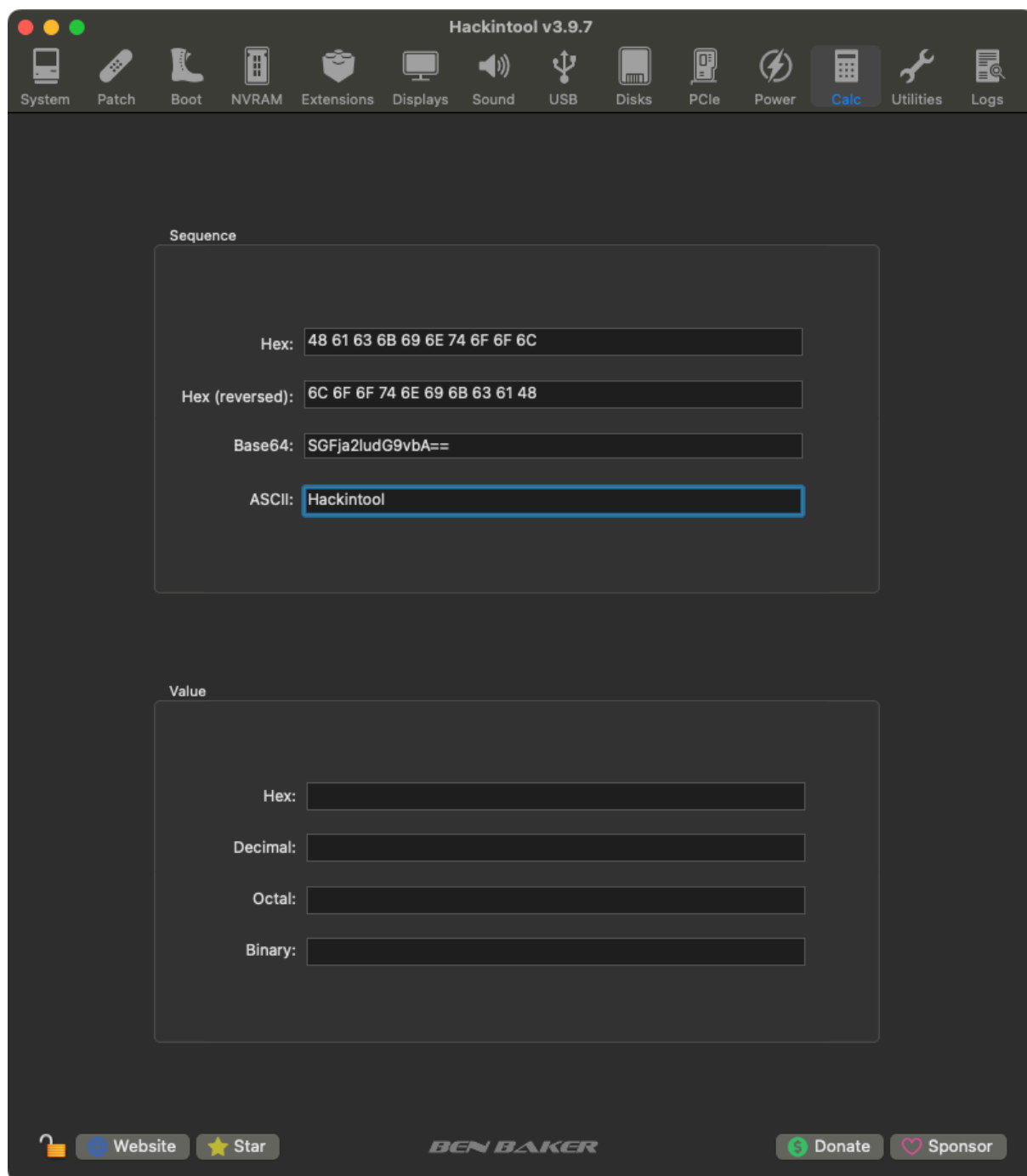
★ Star

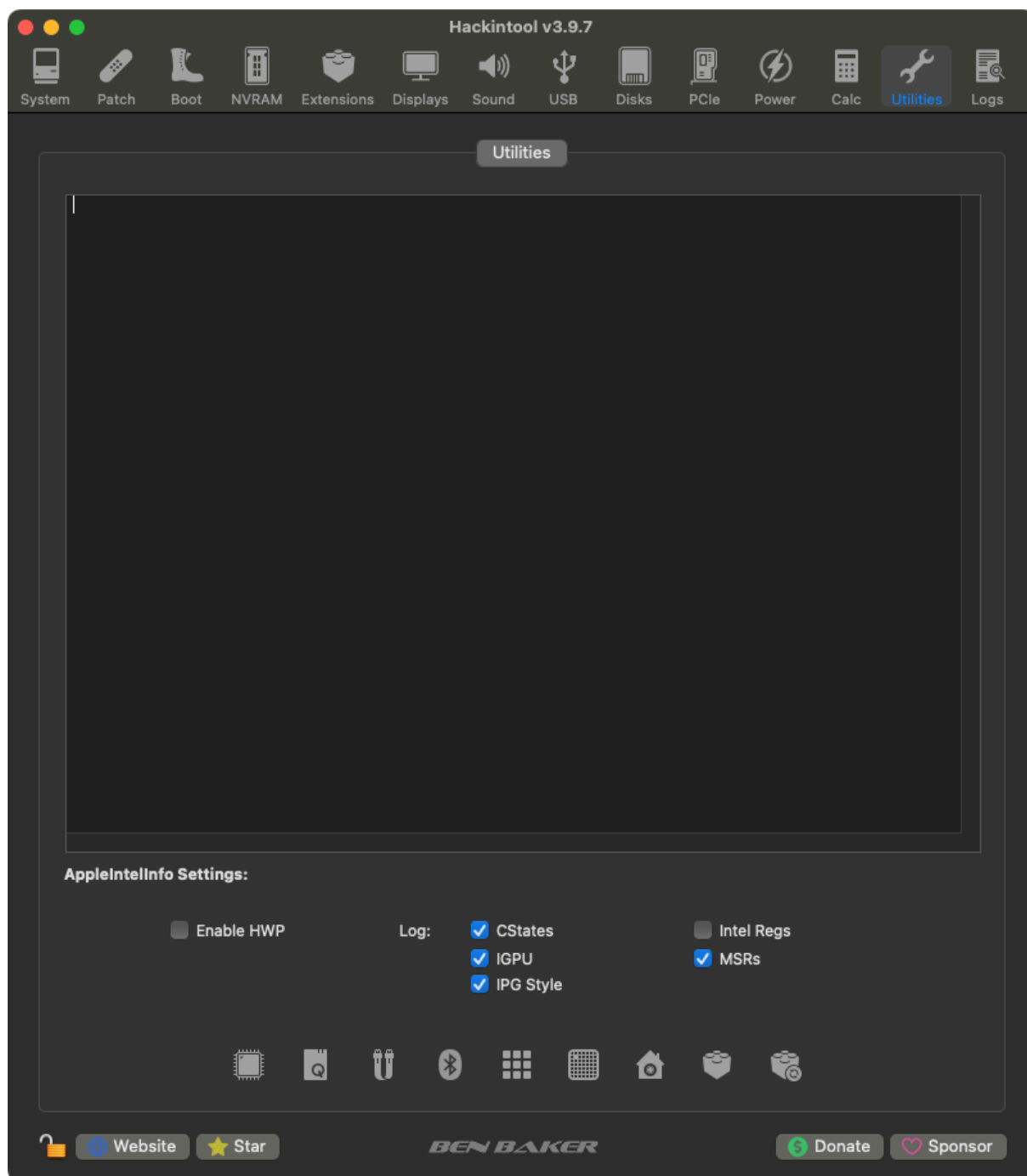
BEN BAKER

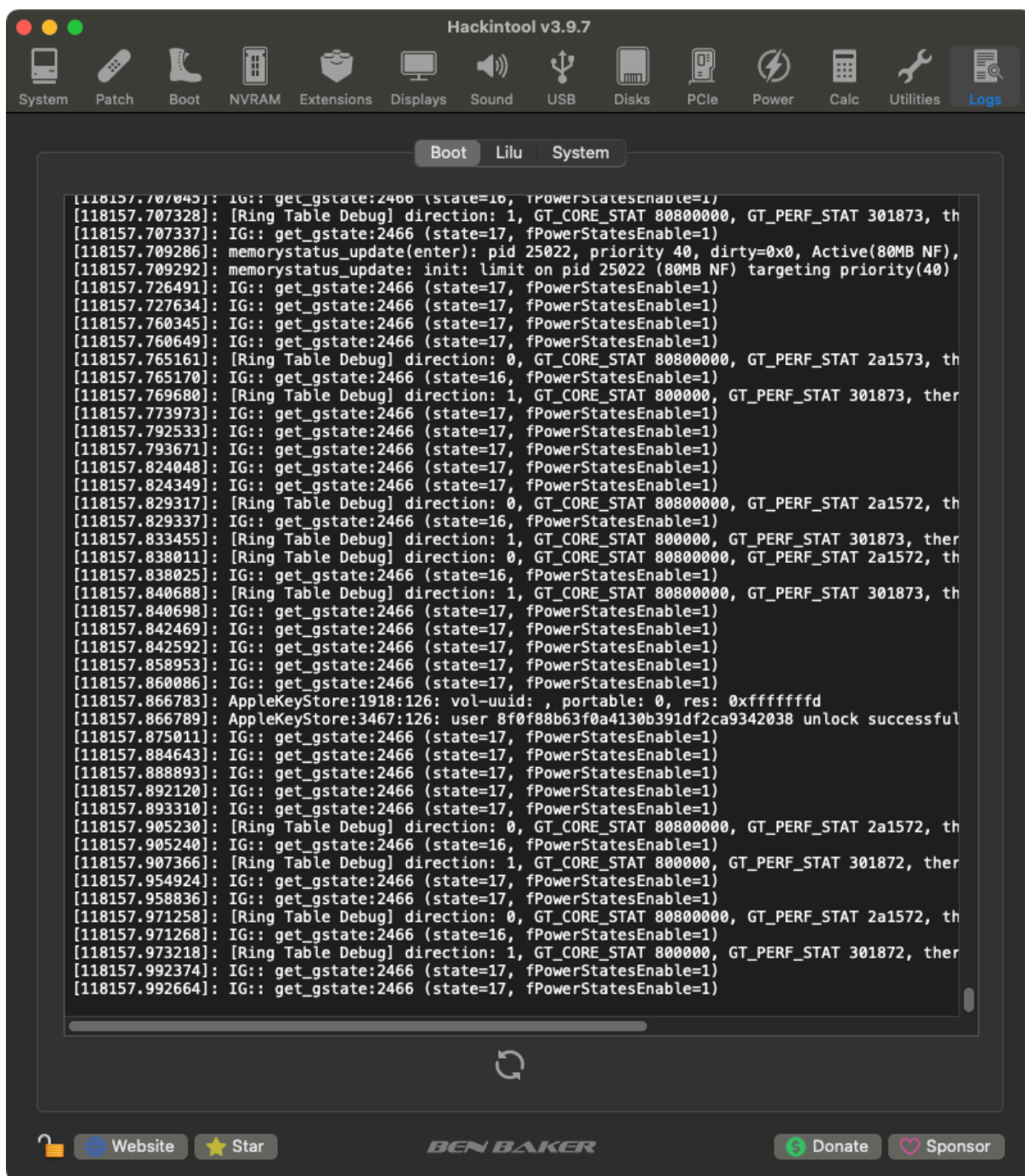
💰 Donate

❤️ Sponsor









Release Notes

- Updates are on Github
- 2.8.6 - Fix crash in getEDIDData, fix Import KextsToPatch

-
- 2.8.5 - Add “Show Installed Only” option for installed kexts
 - 2.8.4 - Improved framebuffer enumeration, updated codecs and pci.ids
 - 2.8.3 - Improved version checking routine, updated Turkish translation
 - 2.8.2 - Updated Clover download location / OpenCore download support, Chinese translation update
 - 2.8.1 - Data file updates
 - 2.8.0 - Fixed OpenCore KextsToPatch format. Removed DSDT Rename auto selection
 - 2.7.9 - Source is now on Github [here](#)
 - 2.7.8 - Fix pcidevices.dsl compile error
 - 2.7.7 - pcidevices.dsl export will now compile. Fix for Device Path
 - 2.7.6 - Custom Device Path generation code (big thanks to @jaymonkey for helping test). Updated Chinese translation
 - 2.7.5 - PCI DevicePath fix
 - 2.7.4 - Added EveryMac.com Serial Check
 - 2.7.3 - Added Serial Number Generator (thanks to vit9696 / MacInfoPkg team)
 - 2.7.2 - Added EDID injection to IGPU. Added DPCD Max Link Rate patching. Added tooltips for Advanced / LSPCON patch options. Updated pci.ids / AppleALC audio data
 - 2.7.1 - Bug fixes. Updated pci.ids / AppleALC audio data
 - 2.7.0 - Launch process output fix (big thanks to @jaymonkey for the help testing this). Prepends “Intel” for IGPU name for Intel Power Gadget (thanks again to @jaymonkey for discovering this). System Info now includes all graphics cards. iMessage Keys are now clearly labeled. Added new OpenCore logo. Updated pci.ids / AppleALC audio data
 - 2.6.9 - Disable Gatekeeper tool fix
 - 2.6.8 - Catalina fixes
 - 2.6.7 - Added “HDMI Infinite Loop Fix”. Added LSPCON patching. Fixes
 - 2.6.6 - Added “Disable Gatekeeper and mount the disk in read/write mode” tool. Change GFX0 to IGPU selection no longer shows for dGPU
 - 2.6.5 - Improved BT hardware detection (when installed) and will show if FW Loaded (if using BrcmPatchRAM)
 - 2.6.4 - Fixes
 - 2.6.3 - Added Atheros BT device detection
 - 2.6.2 - Added Bluetooth to Info->Misc
 - 2.6.1 - Fixed USB device speeds
 - 2.6.0 - USB fixes for macOS Catalina. USB now shows device speeds. Much improved Log viewer. Installing kexts on macOS Catalina will prompt to disable Gatekeeper and mount the disk in read/write mode. Fixed Atheros install for macOS Catalina. Added NativeDisplayBrightness to kext install list. Updated translations for Korean / Chinese
 - 2.5.9 - ACPI names must be 4 characters (thanks P1LGRIM)

-
- 2.5.8 - Now using pci.ids for Audio Controllers
 - 2.5.7 - Removed kextcache -u / call for rebuild cache. Added more command output for tools
 - 2.5.6 - Added column sorting to PCI table
 - 2.5.5 - Added ASRock DeskMini 310 system config
 - 2.5.4 - Will now output mounting errors
 - 2.5.3 - Fixed EveryMac.com Visit link
 - 2.5.2 - Added Host, OS, Kernel and RAM System Info
 - 2.5.1 - Add support for 0x3EA50005 0x3EA60005 0x3E980003 frame id for CFL refresh
 - 2.5.0 - Fixed stdout/stderr output capture for admin privilege shell commands (thanks jaymon-key)
 - 2.4.9 - Fixes
 - 2.4.8 - Fixes
 - 2.4.7 - Fixes
 - 2.4.6 - “Rebuild KextCache and Repair Permissions” moved to tools section now has progress bar
 - 2.4.5 - Output added for “Rebuild KextCache and Repair Permissions”
 - 2.4.4 - Chinese language updates. Compiler improvements
 - 2.4.3 - Chinese language updates. USB configurator fixes
 - 2.4.2 - Changed Framebuffer Info to Selected / Current Framebuffer Info for easier comparison
 - 2.4.1 - Chinese language update
 - 2.4.0 - Now includes iMessageDebug data (ElNono / mdmwii / flux84 / sugarface / pokenguyen). Export system info data. View model info (everymac.com). Check serial feature. Preliminary OpenCore support (thanks vit9696)
 - 2.3.9 - ComboBox fix (thanks telepati)
 - 2.3.8 - Bug fixes (thanks ReddestDream)
 - 2.3.7 - Improved Clover EFI Mounting. Clover PCI export now uses SubClass for device_type
 - 2.3.6 - Bug fixes. “Use Intel HDMI” option added (hda-gfx=onboard-x). Added “Non Scaled” resolution type
 - 2.3.5 - Fixed bug in Device Path generator (gfxutil). Added “Generate Windows UTC Registry Files” tool
 - 2.3.4 - Updated audio codecs, Export PCI list in Clover and dsl format, Now dumps all ACPI tables and decompiles to dsl
 - 2.3.3 - Extract DSDT (phpdev32), Auto update PCIIDs (MuntashirAkon), Export PCI list in JSON format
 - 2.3.2 - Monitor PCI hotplug
 - 2.3.1 - UI Updates
 - 2.3.1 - Right-click on a PCI device and select “Copy IOReg Path”. Launch IORegistryExplorer and select Go->Go to Path... menu, paste in the path and click the “Go to Path” button.

-
- 2.2.8 - Added warning for HWP state logging (previous state can only be restored after a reboot)
 - 2.2.7 - Added VDA Decoder status. Added DevicePath for PCI devices. Export PCI Devices list to desktop
 - 2.2.6 - Improved Boot EFI detection. Set Boot EFI manually. AppleIntelInfo shows 30 second timer to log CStates. Restores HWP state after logging. Added Intel Regs warning. Calculator now shows reverse bytes
 - 2.2.4 - Added AppleIntelInfo options (Enable HWP, Log: CStates, IGPU, IPG Style, Intel Regs, MSRs). Added AppleIntelInfo 20 second delay for CState capture.
 - 2.2.2 - Added Info tab (Network Interfaces, Graphic Devices, Audio Devices and Storage Devices). Will highlight power settings green or red to indicate issues
 - 2.2.1 - Fixes
 - 2.2.0 - New PCI Devices, Network, Power and Tools tab
 - 2.1.9 - Added Github kext downloading. The download version may be older than the source version. Also due to Github API rate limits it will store the latest download urls. Added Install kext(s) function. Added Rebuild KextCache and Repair Permissions function
 - 2.1.8 - Uses kextstat to get the versions
 - 2.1.7 - Now detects more kexts
 - 2.1.6 - Can now download the current version numbers of Lilu + Plugins
 - 2.0.8 - Patch->System Configs menu with various configurations you can try if your Coffee Lake system is being troublesome (CaseySJ)
 - 2.0.4 - Apply Clover patches (KernelToPatch, KextToPatch, DSDT Renames). View, create and edit NVRAM variables (be careful!). View installed Lilu + Plugins, download and automatically compile the latest versions
 - 1.9.6 - Disk display enhancements (icons / mount / unmount buttons)
 - 1.9.2 - Fixes
 - 1.9.1 - Added SSDT-UIAC.aml / SSDT-USBX.aml export support
 - 1.9.0 - Fixed launch bug (thanks @Pavo)
 - 1.8.7 - Added USB Power DSDT Renames
 - 1.8.6 - Added DSDT Renames
 - 1.8.5 - Fixes
 - 1.8.4 - Auto update capability using Sparkle framework
 - 1.8.3 - Improved Audio Device detection / selection, window can now be resized
 - 1.8.2 - Added translations; French (Matgen84), German (al6042), Korean (zisqo), Russian / Ukrainian (ctich)
 - 1.8.1 - Clover downloader (Kozlek / JrCs / slice), NVRAM boot-args edit, improved authorization, UI update
 - 1.8.0 - Improved USB power export (corpnewt), other fixes, new icon
 - 1.7.9 - Added USB power export, EFI partition mounting, calculator and log viewer

-
- 1.7.8 - Added resolution injection from one-key-hidpi script (xzhih)
 - 1.7.7 - Added EDID patching support for AMD & nVidia
 - 1.7.6 - EDID overrides can now export custom icons
 - 1.7.5 - Improved USB guide, added print button
 - 1.7.4 - Fixed defaults
 - 1.7.3 - Updates
 - 1.7.2 - Renamed app to Hackintool, added EDID injection support (Andy Vandijck)
 - 1.7.1 - Dark mode fixes
 - 1.7.0 - USB & Audio info added, shows possible spoof / kext requirements
 - 1.6.9 - Updates
 - 1.6.8 - Added framebuffer-camellia and framebuffer-flags patching support
 - 1.6.7 - Added Macmini8,1 and MacBookAir8,1 definitions
 - 1.6.6 - Data file updates
 - 1.6.5 - Fixed USBInjectAll detection
 - 1.6.4 - Audio layout id detection improvement
 - 1.6.3 - Now shows Audio Controller
 - 1.6.2 - USB fixes
 - 1.6.1 - Improved Spoof Audio Device Id option
 - 1.6.0 - Fixes
 - 1.5.9 - Now shows USB Controllers
 - 1.5.8 - Will store and restore USB ports between app sessions for use with new USBInjectAll.kext (0.7.0) to include boot flags for excluding groups of ports
 - 1.5.7 - Now detects EHC and hub ports (thanks to RehabMan & SavageAUS). Multi-select USB Ports. Now detects if USBInjectAll is installed
 - 1.5.4 - Fixed audio codec detection when user has multiple audio devices. Added "Reboot Fix" advanced patch (sets connector pipe values to 18)
 - 1.5.3 - Improved Export->Clover config.plist and now makes a backup (config-backup.plist)
 - 1.5.2 - Added Patch->AzulPatcher4600
 - 1.5.1 - USBPorts port-count fix
 - 1.5.0 - Fixes
 - 1.4.9 - Added tab to show if Lilu, WhateverGreen and AppleALC are installed and version info
 - 1.4.8 - Fixed framebuffer-cursormem output for iASL DSL Source patching
 - 1.4.7 - Added support for new WEG -igfxfbdump boot flag using File->Import->IOReg Dump menu
 - 1.4.6 - Fixes. Added Framebuffer->macOS 10.14 menu item. Added QE/CI and Metal support detection
 - 1.4.5 - Added support for framebuffer-cursormem (Haswell)
 - 1.4.4 - Added ability to inject valid device-id's

-
- 1.4.3 - Fixes
 - 1.4.2 - Added Patch->Import KextsToPatch / Apply Current Patches menu. Renamed USBPower.kext -> USBPorts.kext
 - 1.4.1 - Added TypeC USB ports
 - 1.4.0 - Improved Intel Generation detection
 - 1.3.9 - Now using AppleIntelFramebuffer@X index for connector association
 - 1.3.8 - Fixed bug AppleIntelFramebuffer port-number should be connector index + 4 or 0 for internal (RehabMan)
 - 1.3.7 - Shows Display Info for connected displays on connector ports (with display hot plug support), fixed iASL DSL Source hex output, connector drag-drop to change order
 - 1.3.6 - Fixes
 - 1.3.5 - Will try HDAS if HDEF is not found
 - 1.3.4 - Added AllData connector patch method (RehabMan). Will try GFX0 if IGPU is not found
 - 1.3.3 - Fixes. Added more audio layout-id's (vandroiy2013)
 - 1.3.2 - Fixes
 - 1.3.1 - Fixes. Added new menu Framebuffer->Current Version / macOS 10.13.6
 - 1.3.0 - Added audio patching, Clover config.plist exporting, USB patching, advanced auto patching
 - 1.2.8 - Added iASL DSL Source patch output, display detected Intel gen and platform-id
 - 1.2.7 - File->Export framebuffer text file
 - 1.2.6 - Fix preallocated memory calculation formula (vit9696)
 - 1.2.5 - Still outputs a config.plist/Devices/Properties patch when "Auto Detect Changes" is selected
 - 1.2.4 - Fixes
 - 1.2.3 - config.plist/Devices/Properties patch now outputs data format
 - 1.2.2 - Fixes
 - 1.2.1 - Updates and fixes
 - 1.2.0 - Added support for Cannon Lake and Ice Lake
 - 1.1.0 - Added MacBookPro15,1 and MacBookPro15,2 models
 - 1.0.9 - Support for Mojave, Coffee Lake, WhateverGreen's -igfxdump boot flag and Clover's config.plist/Devices/Properties patch output
 - 1.0.8 - Updates
 - 1.0.7 - Fixed support for dark mode
 - 1.0.6 - Better backwards compatibility
 - 1.0.5 - Detects Chipset / Address on Startup, Edit Memory Values Easier
 - 1.0.4 - Added GPU / Model Info
 - 1.0.3 - Added Tooltips
 - 1.0.2 - Added Memory tab

-
- 1.0.1 - Minor Fixes
 - 1.0.0 - Initial Release

Credits & Contributions

- vit9696 for WhateverGreen (full credits), Lilu (full credits), AppleALC (full credits), USBPorts.kext and additional help
- vit9696 for IntelFramebuffer.bt with additional work by bcc9, Piker-Alpha and joevt
- daliansky for Intel Core Platform ID and SMBIOS Quick Reference
- Clover Development Team for various technical info
- vandroiy2013 for audio id data from AppleALC
- RehabMan for all data patching method, ioreg framebuffer dump and other contributions
- EDID injection (Andy Vandijck / Marchrius)
- USB power injection (corpnewt)
- HDA controllers / codec lists by the VoodooHDA project
- System Configs compilation (CaseySJ)
- Clover downloader (Kozlek / JrCs / slice)
- Kext compiler & installer (Sascha Lamprecht / Gengik84 / LAbyOne)
- Atheros & SATA kexts (Sascha Lamprecht)
- DPCIManager (phpdev32 / MuntashirAkon)
- AppleIntelInfo (Pike R. Alpha)
- gfxutil (mcmatrix)
- VDADecoderChecker (Andy Breuhan)
- iMessageDebug (ElNono / mdmwii / flux84 / sugarface / pokenguyen)
- macserial (vit9696 / MacInfoPkg team)
- Model data (everymac.com)
- Translations: French (Matgen84), German (al6042), Korean (zisqo), Russian / Ukrainian (ctich), Chinese (daliansky, Bat.bat, penghubingzhou)
- Sparkle framework by Andy Matuschak
- Icon & UI updates by ultratnem