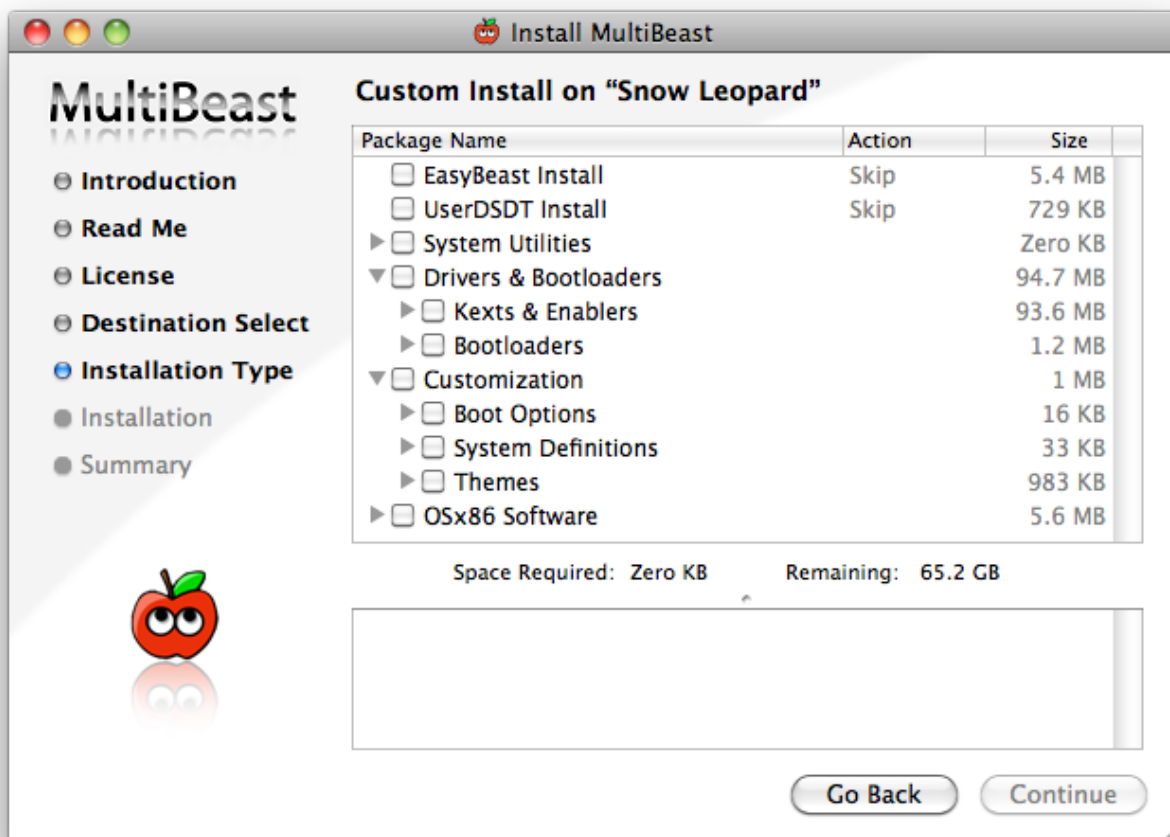




# MultiBeast



**MultiBeast** is an all-in-one post-installation tool designed to enable boot from hard drive, and install support for Audio, Network, and Graphics. It contains two different complete post-installation solutions: EasyBeast and UserDSDT. In addition it includes System Utilities to rebuild caches and repair permissions and a collection of drivers, bootloaders, boot time config files and handy software.

This document will reference all of the features of MultiBeast, as described inside the installer itself. The iBoot + MultiBeast guide is available at the [tonymacx86 Blog](http://tonymacx86.com).

Please read all of the descriptions carefully. You may run MultiBeast as often as you like, but keep in mind that it will not uninstall items, just overwrite them.

**tonymacx86 & MacMan**  
[www.tonymacx86.com](http://www.tonymacx86.com)



# iBoot

Plus MultiBeast

1. Follow all [Tips & Recommendations](#)
2. Install using iBoot + Retail DVD
3. Boot with iBoot
4. Set up Computer
5. Run Combo Update - DON'T REBOOT
6. Run MultiBeast
7. Reboot

Thanks to the [Chameleon](#) team, [netkas](#), [Project OS X](#), [Cheetha.net](#), hnak and [cVaD](#) for their contributions that makes this tool possible.

Additional thanks to the tonymacx86 community for their testing and contributions to this work. Special thanks to [Lnx2Mac](#), adamsmasher and thelostswede.



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# EasyBeast Install

EasyBeast is a DSDT-free solution for Core, Core 2 or Core i systems. It installs all of the essentials to allow your system to boot from the hard drive. Does not include any Network or Sound drivers or Graphics support besides GraphicsEnabler. Includes the latest version of Chimera, FakeSMC, EvOreboot, JMicron36xATA, JMicron36xSATA, LegacyAppleRTC, NullCPUPowerManagement, USB Rollback, IOPCIFamily Fix, tonymacx86 Remixed theme. 32-Bit com.apple.boot.plist, and MacPro3,1 sbios.plist. Install with System Utilities tasks.



# UserDSDT Install

UserDSDT is a solution for those who have their own pre-edited DSDT.aml on the desktop. Installs your DSDT.aml, the latest version of Chimera, FakeSMC, IOPCIFamily Fix, 32-Bit com.apple.boot.plist and MacPro3,1 sbios.plist. The system will be bootable from the hard drive and ready for sleep with all hardware recognized in System Profiler. Does not include any Network or Sound drivers or Graphics support besides GraphicsEnabler. Install with System Utilities tasks.

# System Utilities

Repairs Disk Permissions and/or Rebuilds Kext Caches. Run after installing any choices above, installing any kexts in Advanced Options or manually deleting kexts.

## Rebuild Caches

Rebuild Caches on /Extra/Extensions & /System/Library/Extensions. Use after installing or deleting kexts.

## Repair Permissions

Repair Permissions on boot volume. Please be patient- this can take a good 4 minutes or more.

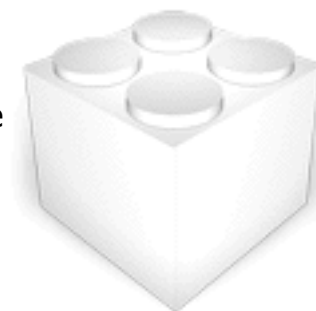


# Drivers & Bootloaders

Collection of drivers, bootloaders, patched kernels, boot time config files and handy software. If you're unsure, don't install anything in here. Advanced users may skip EasyBeast and UserDSDT to do an à la carte install using this collection.

# Kexts & Enablers

Kexts or kernel extensions provide additional functionality to the operating system. The kexts contained here provide either enhanced hardware support or are mandatory for non-DSDT based systems. Be sure to read the descriptions carefully before installation.





## Audio

Collection of kexts to enable the on-board Audio on your system. Make sure to read the descriptions carefully and only install the correct files for your audio codec.

### Realtek ALC8xx

Enables audio for motherboards featuring the Realtek ALC888, ALC887/888b, ALC889, ALC885/889a and ALC892 high-definition audio codecs.

#### ALC8xxHDA

MacMan's Unified Audio Injector for Realtek ALC888, ALC887/888b, ALC889, ALC885/889a and ALC892 high-definition audio codecs. If you are not using a modified DSDT, you must also use a HDAEnabler for your specific codec. Installed in /Extra/Extensions. Install with System Utilities tasks.

#### AppleHDA Rollback

Replaces the current AppleHDA.kext with an unmodified 10.6.2 AppleHDA.kext to restore full functionality for Realtek ALC888, ALC887/888b, ALC889, and ALC892 high-definition audio codecs. on systems running 10.6.3 or later. Installed in /System/Library/Extensions. Install with System Utilities tasks.

#### Non-DSDT HDAEnabler

Required for ALC8xxHDA.kext to work WITHOUT a DSDT and enable audio on motherboards featuring the Realtek ALC888, ALC887/888b, ALC889, ALC885/889a and ALC892 high-definition audio codecs. Make sure you only choose ONE HDAEnabler option. Installed in /System/Library/Extensions. Install with System Utilities tasks.

### Universal

Enables audio for most codecs. Uses VoodooHDA which is an open source audio driver for devices compliant with the Intel High Definition Audio (HDA) specification, based primarily on code from the FreeBSD hdac driver. It is intended as an Intel-only replacement for AppleHDA. Enables sound without DSDT patching on 32/64-bit systems. Installed in /System/Library/Extensions. Install with System Utilities tasks.

#### VoodooHDA 0.2.1 / 0.2.2

Original VoodooLabs branch.

#### VoodooHDA 0.2.56 / 0.2.61 / 0.2.72

Project OS X branch version 0.2.61. 32/64bit. Installed in /System/Library/Extensions. Includes VoodooHDA.prefPane installed in /System/Library/PreferencePanels. Install with System Utilities tasks.





## Disk

Collection of kexts that provide enhanced hardware support for optical and disk drives.

### **IOAHCIBlockStorageInjector**

Makes drives appear as internal. Installed in /Extra/Extensions.

Install with System Utilities tasks.

### **JMicron 36x (aka GSATA)**

MacMan's JMicron 36x Suite of Kexts. Choose only the kexts you need.

#### **Jmicron36x ATA**

Enables the IDE port on the JMicron 36x (aka GSATA) chips.

Supports optical and hard drives. Installed in /Extra/Extensions.

Install with System Utilities tasks.

#### **Jmicron36x eSATA**

Provides support for the SATA ports on JMicron 36x (aka GSATA) chips. Drives connected to these ports show on the desktop as External and can be hot swapped. Installed in /Extra/Extensions. Install with System Utilities tasks.

#### **Jmicron36x SATA**

Provides support for the SATA ports on JMicron 36x (aka GSATA) chips. Drives connected to these ports show on the desktop as Internal and can NOT be hot swapped. Installed in /Extra/Extensions. Install with System Utilities tasks.



## Graphics

Install to enable QE/CI full Graphics acceleration. Only install if the default GraphicsEnabler=Yes is not working correctly. Install with System Utilities tasks.

### **ATI 48xx Device Injector**

Device ID injector that provides all device IDs for ATI 48xx cards. Installed in /Extra/Extensions.

### **ATI 48xx Patch**

Netkas.org packages to get QE/CI on Radeon HD 48xx cards for 10.6.3-10.6.8. Installs patched ATI4800Controller and ATIRadeonX2000 to /System/Library/Extensions.



## Miscellaneous

Collection of miscellaneous kexts that provide enhanced hardware support or mandatory for systems not using a DSDT. Be sure to read the descriptions carefully before installation. Install with System Utilities tasks.

### **ElliottForceLegacyRTC.kext**

Prevents a CMOS reset on reboot without a DSDT.

### **EvOreboot**

If you don't have a DSDT, shutdown and reboot do not work without this kext. Installed in /Extra/Extensions.

### **FakeSMC**

FakeSMC.kext is the only absolutely mandatory kext, and is required for booting the system. Original by netkas, new branch by Project OS X. Installed in /Extra/Extensions.

### **FakeSMC Plugins**

Installs the following FakeSMC plugins to allow software access to hardware monitors: ACPIMonitor.kext, IntelCPUMonitor.kext, SuperIOFamily.kext, RadeonMonitor.kext, and NVClockX.kext. Credit to Project OS X. Installed in /Extra/Extensions.

### **IOPCIFamily Fix**

Replaces the current IOPCIFamily.kext with an updated 10.6.8 version to resolve the PCI Configuration Begin hang on systems running 10.6.8. Installed in /System/Library/Extensions.

### **IOUSBFamily Rollback**

Replaces the current IOUSBFamily.kext and IOUSBMassStorageClass.kext with the unmodified 10.6.2 and 10.6.4 versions to restore full functionality to non-DSDT systems running 10.6.3 or later. Installed in /System/Library/Extensions.

### **NullCPUPowerManagement**

Disables AppleIntelCPUPowerManagement.kext to prevent kernel panic without proper HPET DSDT edits. Installed in /Extra/Extensions.

### **USB 3.0 - NEC/Renesas**

Enables USB 3.0 ports for systems using the NEC/Renesas D720200 controller. LaCie driver patched by modbin. Installed in /System/Library/Extensions.

### **Voodoo PS/2 Controller**

Enables non-USB keyboard/mouse. Installed in /Extra/Extensions.

### **Voodoo Trackpad**

Enables PS/2 based touchpads. 32-bit only. Installs VoodooPS2Trackpad.kext in /System/Library/Extensions/VoodooPS2Controller.kext/Contents/PlugIns/.





## Network

Collection of kexts to enable on-board Ethernet. Install only ONE.

### **Ln2Mac's RealtekRTL81xx Ethernet**

Enables Realtek 81xx Ethernet controllers by launching Ln2Mac's Installer. Installed in /System/Library/Extensions.

### **Hnak's AppleIntelE1000e Ethernet**

Enables Intel 825xx ethernet controllers. hnak's port of the e1000.sourceforge.net Intel Wired Ethernet for Linux driver. 32/64 bit. Installed in /System/Library/Extensions.

### **Realtek Gigabit Ethernet 2.0.6**

Official Realtek 2.0.6 driver for 81xx Ethernet controllers. Installed in /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns



## Bootloaders

Install ONE of the following options to make your drive bootable. Not necessary for a EasyBeast or UserDSDT install.

### **Chimera v1.4.1 r877**

MacMan's branch of Chameleon 2.0 RC5. This version includes support for the latest CPUs and updated GraphicsEnabler code for ATI and NVIDIA GPUs. Does not include any themes. Further information on features and source can be found [here](#).





# Customization

Click the triangle to expand and view the collection of boot time config files and system customization options.

## Boot Options

Contains pre-edited or scripts to edit /Extra/com.apple.boot.plist files to enable/disable special bootloader features at startup.

### 32-bit Apple Boot Screen

Pre-edited standard 32-bit com.apple.boot.plist. Contains GraphicsEnabler=Yes, enabling most NVIDIA and ATI Graphics cards, standard Apple Boot Screen and enables 32-bit kernel.

### 32-bit GraphicsEnabler=No

Pre-edited standard 32-bit com.apple.boot.plist. Contains GraphicsEnabler=No, standard Apple Boot Screen and enables 32-bit kernel.

### 64-bit Apple Boot Screen

Pre-edited standard 64-bit com.apple.boot.plist. Install ONLY if using a patched DSDT. Contains GraphicsEnabler=Yes, enabling most NVIDIA and ATI Graphics cards, standard Apple Boot Screen and enables 64-bit kernel.

### 64-bit GraphicsEnabler=No

Pre-edited standard 64-bit com.apple.boot.plist. Contains GraphicsEnabler=No, standard Apple Boot Screen and enables 64-bit kernel.

### PCI Root ID Fix

Adds PCIRootUID=1 to Kernel Flags in /Extra/com.apple.boot.plist

### Instant Menu

Adds Instant Menu=Yes or replaces Timeout=n in /Extra/com.apple.boot.plist

### Generate CPU States

Adds GenerateCStates=Yes and GeneratePStates=Yes to /Extra/com.apple.boot.plist







## System Definitions

Contains pre-edited smbios.plist files that will identify your system as a specific Mac model. Installed by default by EasyBeast, and UserDSDT installations.

### iMac

These pre-edited smbios.plist files will identify your system as an iMac.

### Mac Pro

These pre-edited smbios.plist files will identify your system as a Mac Pro.

### MacBook Pro

These pre-edited smbios.plist files will identify your system as a MacBook Pro.

## Themes

Themes for bootloader GUI customization.

### Chameleon RC5 Default

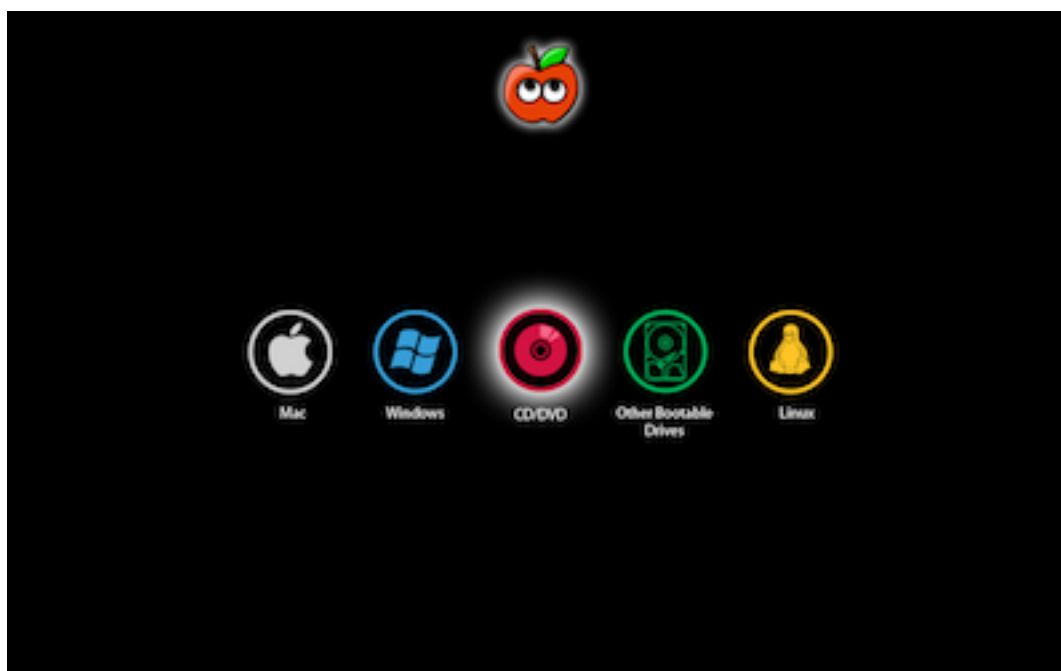
Default Chameleon RC5 theme. Optimized for standard screens. Installed in /Extra.

### tonymacx86 Classic

tonymacx86 theme. Optimized for standard and/or widescreen displays. Installed in /Extra.

### tonymacx86 Remixed

tonymacx86 theme remixed by complx. Optimized for standard and/or widescreen displays. Installed in /Extra.





# OSx86 Software

Helpful OSx86 Utilities and Tools. Installed in Applications folder.

## Kext Helper b7

The drag n' drop kext installer Kext Helper b7 lets you install multiple kexts at once, and also repairs kext permissions and creates a script to tag cache rebuild. Installed in Applications folder.

## Kext Utility

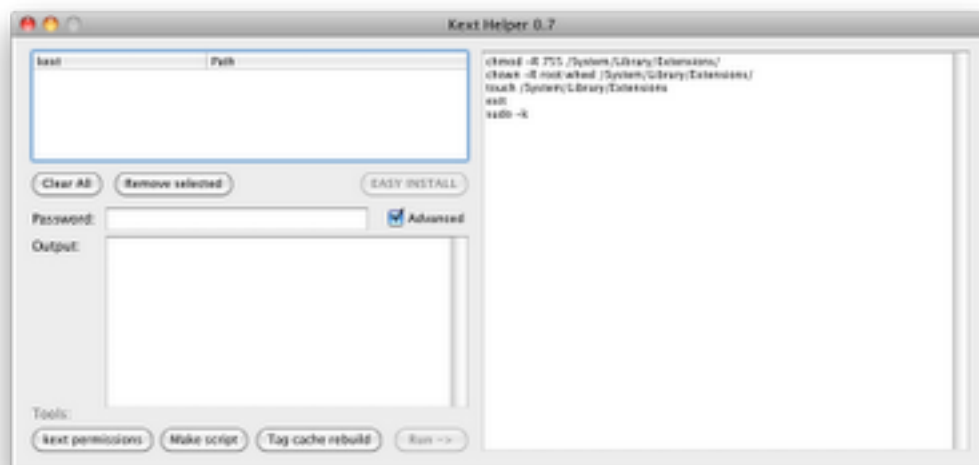
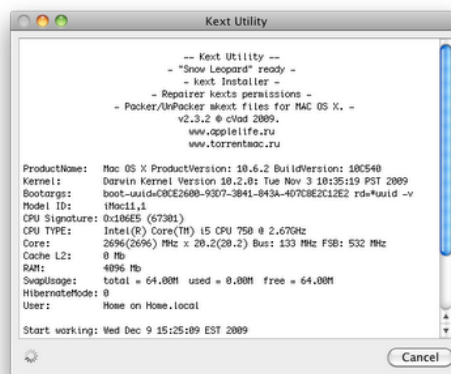
Installs kexts one at a time, and does 'full service' Extensions.mkext creation. The best feature of Kext Utility is its interface to create caches- you simply drag the Extensions folder directly on top of the icon in Applications folder or Dock. Installed in Applications folder.

## MSR Tools

MSR Tools is a thermal sensor program that shows CPU info. In addition to live stepping, it also shows temperature readings, CPU MHZ values and mVolt values. NOTE: 32-bit only. Installed in Applications folder.

## ShowAllFiles

ShowAllFiles enables display of all hidden files in Finder. Very useful for locating hidden boot files, mach\_kernel, etc... Installed in Applications folder.





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Contribute

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