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[Guide] AIO Guides For Hackintosh

Started by pokenguyen, May 15 2014 02:33 AM

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pokenguyen

Posted 13 June 2014 - 04:58 PM

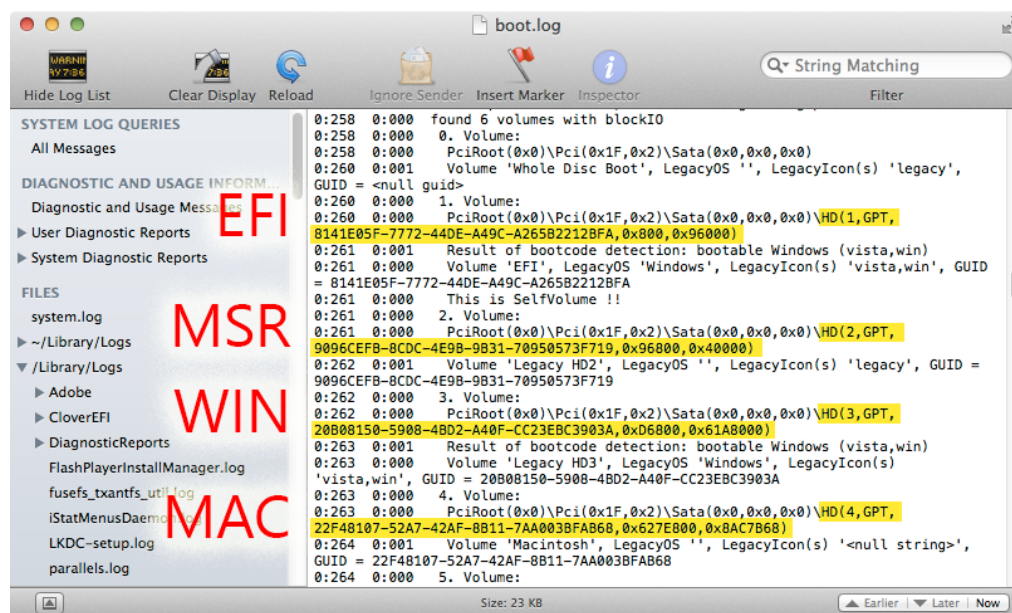
Clover Config: Tweaking Clover menu entries

OS entries on Clover menu screen can be hidden, renamed by editing config.plist.

Step 1: Get the entry partition's UUID by opening boot.log in /Library/Logs/CloverEFI/ (this file is created only if you selected Install RC Scripts to target partitions upon installing Clover). Locate Volume section. Compare existing partitions on your HDD/SSD with the log by typing this in Terminal:

```
diskutil list
```

Or simply remember the line "Boot Windows from Legacy HD3", "Boot OS X from Macintosh" on the Clover menu screen to find the entry partition's name. Get its UUID then save it on a text file



Step 2: Open Clover Configurator, import the current config.plist, switch to tab GUI.

If you want to hide all Legacy entries (Boot ... from Legacy HD...), select Custom in Scan, then uncheck Legacy.

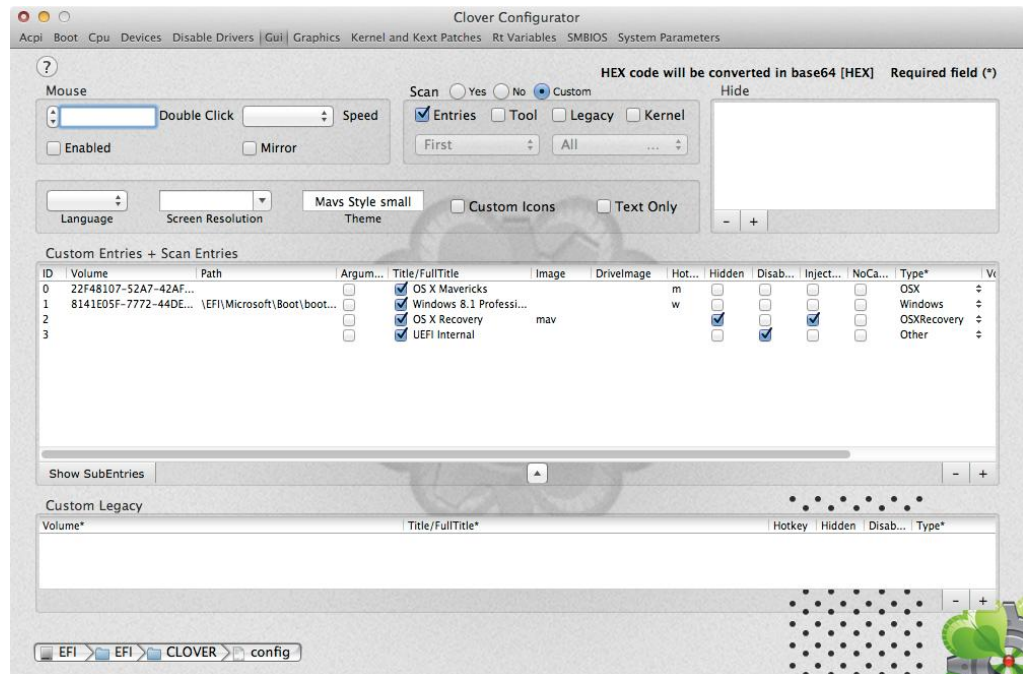
To edit entries manually, select the + button in Custom Entries (for UEFI entries like Windows UEFI, Linux UEFI, OS X) or Custom Legacy (for Legacy entries like Windows Legacy, Linux Legacy,...):

- Volume: enter the entry partition's UUID in step 1
- Path: if the partition contains multiple entries, type the correct path to it (separate by "\")
- Title/Full Title: check it to switch to Full Title, type the desired name which will shown on Clover menu screen.
- Hidden: Hide the entry from Clover menu screen. Select Always if you want to remove the entry from Clover boot screen.
- Disabled: Disable the custom entry.

- InjectKexts: Automatically inject kexts in /EFI/Clover/kexts/ to this entry
- NoCache: Don't use cache for this entry
- Type: Identify the type of OS

Note:

- Entry partition's UUID must be identified correctly. For example, Windows UEFI and Linux UEFI's boot entries is stored in EFI partition (because Windows's bootmgfw.efi is located in \EFI\Microsoft\Boot, not in Windows partition, the same applies to Linux). OS X boot entry is stored in \System\Library\CoreServices\boot.efi).
- If the Volume check mark is blank then Clover will identify the entry base on Type, and vice versa.



pokenguyen

Posted 13 June 2014 - 06:19 PM

Everything you need to know about NVRAM

What is NVRAM ?

NVRAM is not popular to PC users but it is very familiar to Mac users. NVRAM is a type of RAM that retains data after the host device's power is turned off. (in contrast to RAM). NVRAM is used to store values like: brightness, volume, computer name, Find My Mac's ID, etc... In Windows and Linux these values aren't stored in NVRAM but on the HDD, as most PCs don't have NVRAM. OS X utilizes NVRAM to run many services like iMessage, FaceTime, boot device, etc...

NVRAM on PC

NVRAM, like UEFI, is implemented many new PC models, and many OSes like Windows and Linux start using it. For example, Windows in UEFI mode uses NVRAM to check if Secure Boot is enabled or not.

But everything does not work smoothly in the world of PC. In the beginning of the migration from Legacy BIOS to UEFI, many PCs are badly damaged due to unstable NVRAM. Notably many Samsung PCs got bricked due to bad NVRAM writing, in which CMOS reset is the only option to revive it or worse, it can sometimes corrupt firmware. Other OEMs starts to take things carefully and in new BIOS update, they can turn off NVRAM if any possible dangers is exposed.

How to test NVRAM ?

Open Terminal in OS X, type:

```
sudo nvram MyVar=TestValue
```

Then type this to show the current NVRAM:

```
nvram -p
```

You will see:

```
MyVar TestValue
```

After rebooting, type `nvram -p` in Terminal and if you can still see the previous result then your NVRAM is working

NVRAM and Hackintosh

1/ Chameleon

Due to this bootloader's limited implementation, Chameleon won't keep all system's efi-runtime before booting OS X, which means NVRAM won't work even if you already have native NVRAM enabled.

To solve the matter, the module "FileNVRAM" is created to emulate NVRAM for Chameleon. By integrating a NVRAM emulating module into OS X's core, all features required working NVRAM will work normally. This module will load the nvram file from disk early into memory so FileNVRAM has it before OS X is up and running. It also injects a kext into OS X. The kext will handle the NVRAM API that OS X expects. This kext does legacy translation as well as writing the nvram to `/Extra/nvramxxxxxxx.plist` when nvram is changed.

2/ Clover UEFI

Unlike Chameleon, Clover UEFI is more transparent for UEFI system, so it will use the system's Native NVRAM (if exist).

To see if you have native NVRAM or not, go to `/EFI/Clover/Drivers64UEFI/` and delete `EmuVariableUEFI-64.efi`, then restart. Follow the NVRAM testing procedure above, if it's still working then you have native NVRAM support and you don't need to use `EmuVariableUEFI-64.efi`; if not then put back `EmuVariableUEFI-64.efi` to use NVRAM.

`EmuVariableUEFI-64.efi` works by loading the newest `nvram.plist` from HFS+/FAT32 partitions and emulate NVRAM for OS X. But this driver CAN NOT save NVRAM into the `nvram.plist`. Therefore, we need some solution to save `nvram.plist` at shutdown.

Install RC Script

You can install this by select "Install RC Script to target partition" in Clover <=2711

This is how Clover Installer saved NVRAM (up to Clover 2711). It utilizes OS X's feature of loading `/etc/rc.local` when booting up, and `/etc/rc.shutdown.local` when shutting down, Clover Installer added execute scripts to save log files into `rc.local` and save `nvram.plist` into `rc.shutdown.local`.

The truth is RC Script has been deprecated since the day of Leopard (10.5) but for some reasons it still survives till Mavericks (10.9). Unfortunately it is gone completely in Yosemite (10.10), so Clover users using RC Script in old installer now won't be able to keep NVRAM after restarting, due to `nvram.plist` saving scripts won't run at shutting down.

Use LoginHook/LogoutHook

To temporarily replace RC Scripts, some users use LoginHook/LogoutHook to replace `rc.local` / `rc.shutdown.local`. LoginHook command will be run when logging in, and LogoutHook will run when logging out. This method still has some problems. The scripts will run only when login/logout, not starting/shutting down. This method is also deprecated since Tiger (10.4), so it will be a matter of time until it's completely disappears.

Launchd

You can install this by select "Install RC Script to target partition" in Clover > 2711

This is the official method that Apple recommends to run scripts when starting/shutting down, and Clover revisions since 2712 has implemented it for better OS X support.

Issues while booting into OS X

Graphics related problem

This occurs when your verbose booting screen shows that things are stuck at Bluetooth or Network or loading partitions. To fix this temporarily:

Revise config/bootflag:

Wrong bootflag (for Chameleon) or bad config.plist (for Clover) can cause graphics issues, you should check it again

Boot in Safe Mode

For Chameleon: Add -x to your bootflag

For Clover: Hit Spacebar and choose Boot to safe mode

Remove graphics kexts:

You can temporarily remove graphics kexts in order to boot. If you have Windows or Linux, go to /System/Library/Extensions and move these kexts to another folder:

AMD (for AMD only or Intel HD + AMD systems): AMD*.kext

Nvidia (for Nvidia only or Intel HD + Nvidia systems): NVDA.kext, Geforce*.kext

Intel (if above methods don't work): AppleIntelHD*.kext

If you don't have other OS, boot into the installer or the Recovery partition, open Terminal and type:

```
cd /Volumes/  
ls ( list of available partitions on the system )  
cd "OS X partition name"  
mkdir /Backup  
cp -rf AMD* /Backup  
rm -rf AMD* ( if you want to delete AMD kexts )  
cp -rf NVDA* /Backup  
rm -rf NVDA* ( if you want to delete NVDA kexts )  
cp -rf Geforce* /Backup  
rm -rf Geforce* ( if you want to delete Geforce kexts )  
cp -rf AppleIntelHD* /Backup
```

After successfully booting into OS X, you should patch your DSDT to inject the correct information about your GPU, or disable the dedicated GPU by DSDT/SSDT for AMD Switchable Graphics/Nvidia Optimus to prevent this from happening again.

Installing the kexts back to see if you have working graphics.

Still waiting for root device:

This happens because:

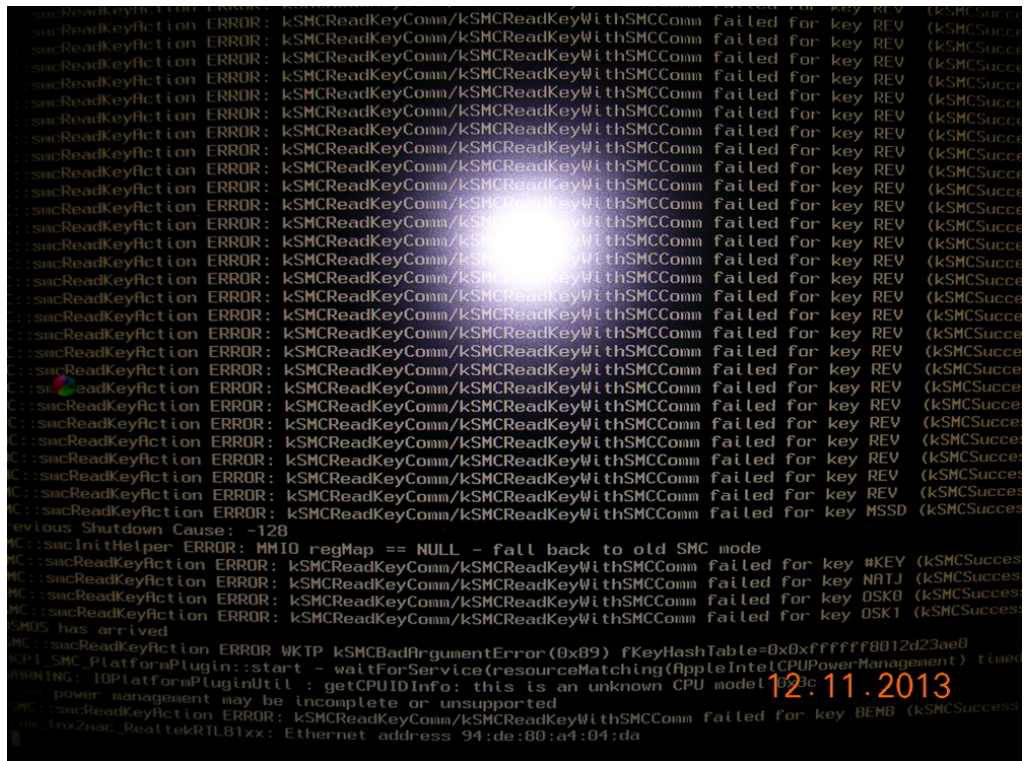
- Using a 3.0 USB port to boot into the installer without having GenericUSBXHCL.kext in /Extra/Extensions or /EFI/Clover/kexts of the USB
- SATA Mode isn't set to AHCI in BIOS or is in RAID Mode that Apple doesn't support

To fix this:

- Add GenericUSBXHCL.kext to /Extra Extensions or /EFI/Clover/kexts of the USB
- Add AHCIInjector.kext for systems using RAID Mode
- Set SATA Mode to AHCI
- If using Clover, you can try creating a config.plist with "still waiting for root device" patch and use it

SMCReadKeyActionError:

This happens because vt-d is enable in BIOS



To fix this, do one of following:

- Disable vt-d in BIOS
- Boot with dart=0 flag
- Set Drop DMAR table in Clover config.plist

PState Stepper Error on some Ivy Bridge CPUs:

If you follow the speedstep guide (link) and got this error, this happens because of bad ssdt for the cpu. To fix this:

- Delete the current ssdt.aml
- Create a Ivy or Haswell SMBios
- Install vanilla AppleACPIPlatforms.kest
- Generate SSDT with ssdtPrGen (or can be found in HVT, which is always the latest version)
- Copy vanilla mach_kernel to the root of the OS X partition, use HVT to patch it (for Chameleon) or set KernelPM in config.plist (for Clover)
- Add -xcpm to your bootflag when booting (org.chameleon.boot.plist for Chameleon/config.plist for Clover)

pokenguyen

Posted 14 June 2014 - 07:53 PM

Touchpad/Keyboard won't work after using Hackintosh for a while (Laptop-exclusive)

After some time, your touchpad and keyboard may malfunction: not working, laggy cursor when moving, a few keys don't work even though you have installed the right kext and using them just fine earlier. This often related to EC (Embedded Controller)

EC is a device which controls the touchpad/keyboard and some other devices on the mainboard. Sometimes EC may malfunctions due to many reasons (electric shock, bad dsdt, etc....). You have to force EC to reset itself:

- Turn off your computer
- Unplug your computer and remove the battery
- Press Power button for about 30 seconds
- Put the battery back and use it normally

Special method for users with Elan touchpad: hit Escape button when your keyboard isn't working

pokenguyen

Posted 14 June 2014 - 08:09 PM

DSDT/SSDT: Everything you need to know about SSDT

As mention in the [basic knowledge guide about DSDT/SSDT \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250), SSDT (Secondary System Description Table) are sub-tables which describe additional devices. By using SSDTs OEMs can manage DSDT better, and so SSDT can be shared between similar systems. SSDTs that comes with the system usually contain these information (red means scope/device can be found in SSDT):

- SATA management: `_SB.PCIo.SATA`
- Sensor management: `PTID`
- CPU management: `_PR.CPU`
- Intel HD Graphics management: `PCIo.GFXo` or `PCIo.VID`
- Dedicated GPU management: various names like `GFXo`, `PEGP` or `DGFX`, etc...
- Features like Optimus, Switchable Graphics,...

To edit these tables, make sure to [dump and decompile all DSDT/SSDT \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250), edit the dsl file then save it as aml. To load the edited one, rename it by order: SSDT.aml, SSDT-1.aml, SSDT-2.aml,... and put them in the bootloader's directory (the same as DSDT.aml)

Drop OEM SSDT

This feature was created due to the fact that system's original SSDTs that manage CPU are useless in OS X, which force users to create CPU management SSDTs which are optimized for OS X. By loading both OS X's optimized SSDTs and original SSDTs, they can conflict each other, cause unstable CPU loading.

Drop OEM SSDT is made to wipe (drop) original SSDTs in BIOS/UEFI to avoid conflicts. Even though other SSDTs are also dropped, but these tables aren't always important (most systems can run with DropSSDT=True)

CPU management SSDTs

Bootloaders like Chameleon, Clover can create a SSDT compatible with OS X to control the CPU by setting GeneratePState/GenerateCState=True. ssdtPrGen script made by Pike R. Alpha is better way to create CPU SSDTs for OS X, and will always be up-to-date. You can create your SSDT.aml using ssdtPrGen by selecting Tools > SSDT Generator in HVT

Note:

- ssdtPrGen script only supports 2nd/3rd/4th Core I and Xeon Processor. Other CPUs have to use the bootloader's Generate features.
- Do not use both SSDT.aml and bootloader's Generate features, it can cause unknown issues.
- It is recommended to use Drop OEM SSDT features to avoid conflicts between SSDTs

Intel HD Graphics management SSDT (laptop-exclusive)

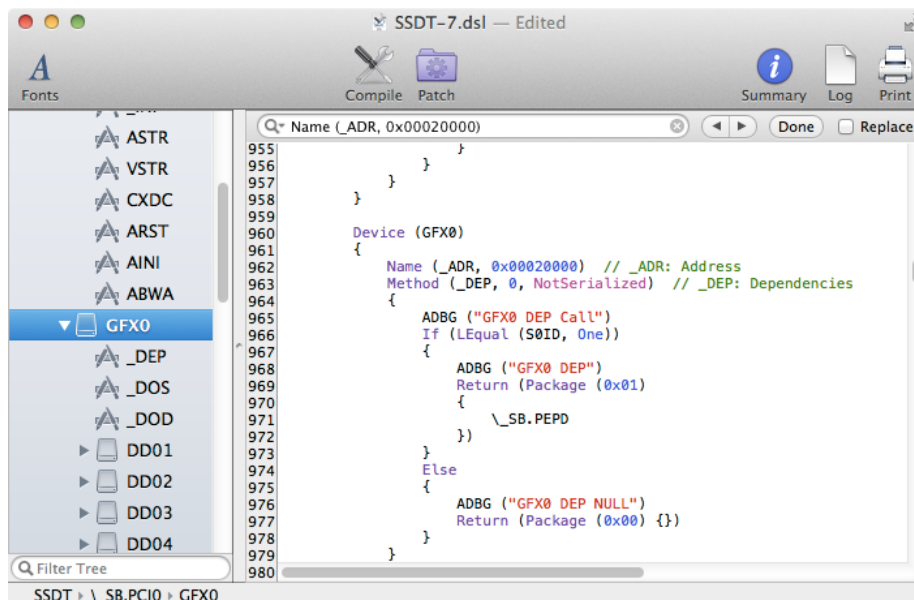
Most Intel iGPUs are defined in DSDT, but in some cases (especially Haswell laptops), the iGPU is managed in SSDT.

To check whether DSDT or SSDT is managing your iGPU, find these in the tables:

```
Device (GFXo)
Device (VID)
Name (_ADR, 0x00020000)
```

They are inside PCIo scope.

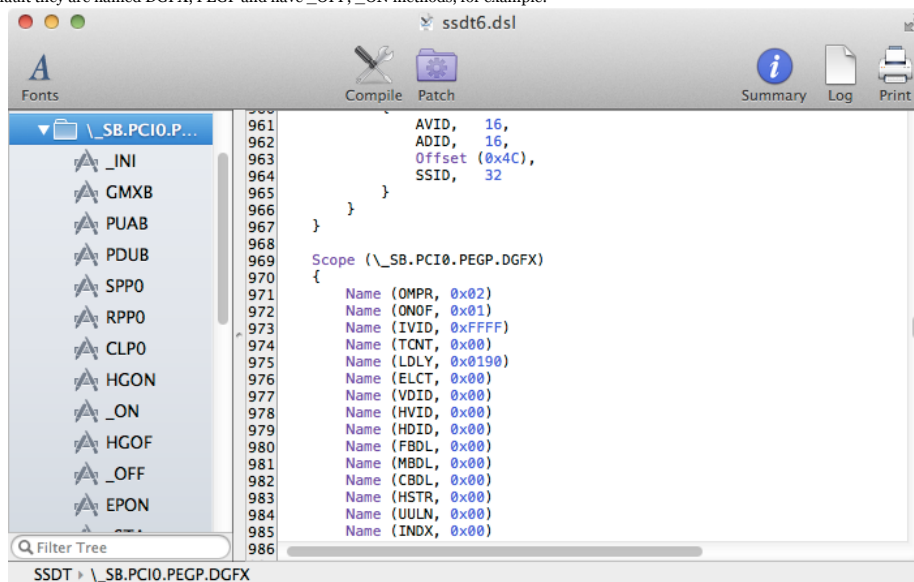
For example, this system's HD4400 is managed by ssdt7.dsl



In this case, for brightness fix you have to compile and load that ssdt. And if you apply a patch that rename GFX0 to IGPU, you have to do it in all related DSDT/SSDT.

Dedicated GPU management SSDT (laptop-exclusive)

By default they are named DGFX, PEGP and have _OFF, _ON methods, for example:



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Posted 14 June 2014 - 08:17 PM

DSDT/SSDT: Disable dedicated GPU to extend battery life (laptop-exclusive)

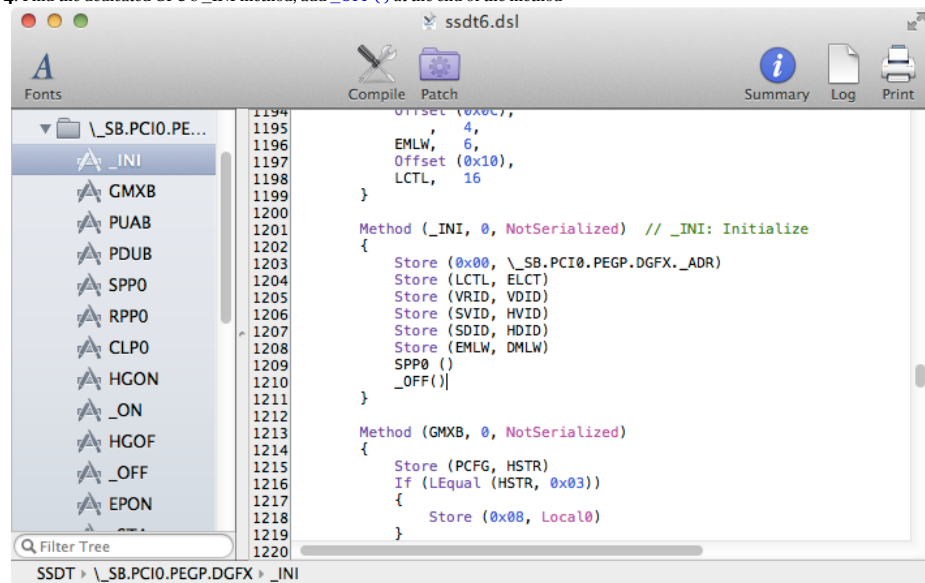
Only applied to laptops with both dedicated GPU (Nvidia/AMD) and Intel HD Graphics, has Nvidia Optimus Technology/AMD Switchable Graphics, and dedicated GPU can't be turned off in BIOS

Step 1: [Dump and decompile original DSDT/SSDT into dsl files \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250)

Step 2: [Identify the DSDT/SSDT contains Intel HD Graphics \(if exist\) and dedicated GPU \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2030030\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2030030)

Step 3: If you rename Intel HD GFXo to IGPU, do it on all related DSDT/SSDT!

Step 4: Find the dedicated GPU's _INI method, add _OFF () at the end of the method



Press Compile to check for error. If you have error "Object is not accessible from this scope (_OFF)", the _OFF method is not included in the same SSDT. You have to link it by adding this to SSDT:

```
External(\_SB.PCI0.RP05.PEGP._OFF, MethodObj)
```

Note that you have to change the path to your External graphics device _SB.PCI0.RP05.PEGP to suit your system.

Step 5: Save all SSDTs related to iGPU (if exist) and dedicated GPU as aml, put it in the bootloader's directory (name it as SSDT.aml, SSDT-1.aml, SSDT-2.aml, etc...)

Step 6: Reboot and go to System Information, select Graphics/Display. If only Intel HD Graphics shows up and no Display/Nvidia/AMD related names are there then you have successfully disable the dedicated GPU.

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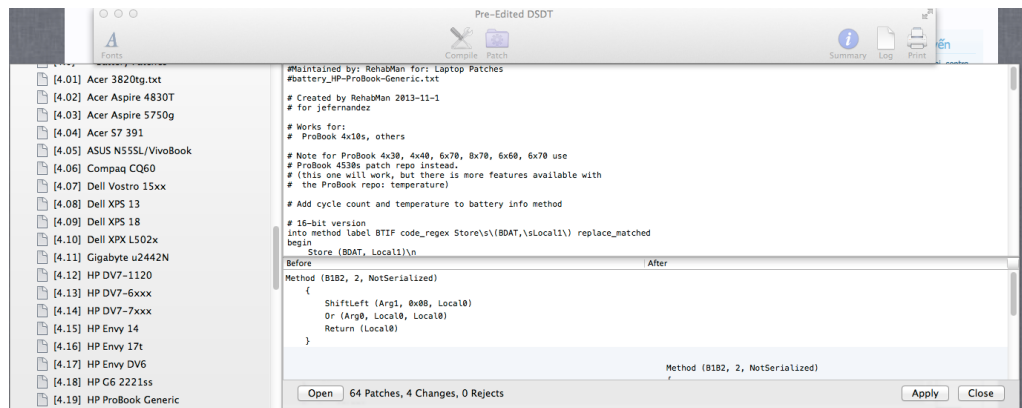
Posted 14 June 2014 - 08:26 PM

DSDT/SSDT: Brightness fix for Intel HD3000/4000/4400/4600 (Laptop exclusive)

Requirement:

- [Dump and decompile DSDT/SSDT \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250)
- [Edit with MacIASL and fix all errors \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027276\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027276)
- [Add Rehabman's laptop patches repo \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027276\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027276)
- [Rename GFXo to IGPU for Intel HD Graphics \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2028280\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2028280)

Open DSDT.dsl or SSDT*.aml which contains the Intel HD Graphics, select Patch > go to 2.10 Brightness Fix (HD3000/4000) or 2.11 Brightness Fix (Haswell) to your choice, hit Apply



Hit Compile to check if there are errors or not, the most common error is Scope not found, due to you haven't renamed all iGPU's GFXO device, try renaming all Intel HD's GFXO to IGPU (do not mistake for dedicated graphics GFXO)

Another cause for this problem is that the Intel HD GFXO device is not in DSDT, but in other SSDT* instead (most Haswell laptops). You need to [find the SSDT*.dsl which contains GFXO devices](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2030039) (<http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2030039>) and redo the steps above.

Compile it to DSDT.aml or SSDT-*.aml (* start with 1), put it in [the bootloader's directory](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250) (<http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2027250>)

Install Rehabman's ACPIBacklight: <https://bitbucket.org/RehabMan/os-x-acpi-backlight/downloads> or use HVT to install it

REMEMBER that you have to rename Intel HD GFXO, VID->IGPU in all DSDT/SSDT to make it work.

Note: ACPIBacklight use nvram to save brightness values when shutting down, so you need working nvram to save them after restarting:

- Chameleon: Use FileNVRAM module
- Clover UEFI: When installing the bootloader select EmuVariableUEFI-64.efi and Install RC Script on target volume

pokenguyen

Posted 14 June 2014 - 08:43 PM

Clover Config: Convert your patched AppleHDA to Clover patching-on-the-fly

Requirement:

- Get a working sound with patched AppleHDA

The guide is based on piker's discovery, and will help you turn from a patched AppleHDA to Clover patching-on-the-fly.

Step 1: Download becy's script modified by RehabMan [here](https://www.dropbox.com/s/l5pclf0l2zow9no/patch-hda.zip) (<https://www.dropbox.com/s/l5pclf0l2zow9no/patch-hda.zip>), decompress it to desktop.

Go to terminal, type these commands:

```
cd ~/Desktop/patch-hda
./patch-hda.pl -x 111d7605
```

REMEMBER to change **111d7605** to your audio codec id.

The patching entry will be output:

```

patch-hda — bash — 80x42
Last login: Sat Jun 21 14:09:47 on ttys000
Nguyens-MacBook-Pro:~ Nguyen$ cd ~/Desktop/patch-hda
Nguyens-MacBook-Pro:patch-hda Nguyen$ ./patch-hda.pl -x 111d7605
OSX version 10.10 detected
Default target codec: 111d7605
detected.
Patching AppleHDA codec 11d4198b with 111d7605
2 codec range comparison(s) to patch
Patching range comparison 11d41983
Patching range comparison 11d41984
<dict>
  <key>Name</key>
  <string>AppleHDA</string>
  <key>Comment</key>
  <string>Expect 4 matches</string>
  <key>Find</key>
  <data>gxnUEQ==</data>
  <key>Replace</key>
  <data>AAAAAA==</data>
</dict>
<dict>
  <key>Name</key>
  <string>AppleHDA</string>
  <key>Comment</key>
  <string>Expect 4 matches</string>
  <key>Find</key>
  <data>hBnUEQ==</data>
  <key>Replace</key>
  <data>AAAAAA==</data>
</dict>
<dict>
  <key>Name</key>
  <string>AppleHDA</string>
  <key>Comment</key>
  <string>Expect 4 matches</string>
  <key>Find</key>
  <data>ixnUEQ==</data>
  <key>Replace</key>
  <data>BXYdEQ==</data>
</dict>
Nguyens-MacBook-Pro:patch-hda Nguyen$

```

Open your config.plist by TextEdit, copy the generated scripts to KernelAndKextPatches > KextsToPatch section:

```

<key>KernelAndKextPatches</key>
<dict>
  <key>AppleRTC</key>
  <true/>
  <key>AsusAICPUPM</key>
  <true/>
  <key>KextsToPatch</key>
  <array>
    <dict>
      <key>Name</key>
      <string>AppleHDA</string>
      <key>Comment</key>
      <string>Expect 4 matches</string>
      <key>Find</key>
      <data>gxnUEQ==</data>
      <key>Replace</key>
      <data>AAAAAA==</data>
    </dict>
    <dict>
      <key>Name</key>
      <string>AppleHDA</string>
      <key>Comment</key>
      <string>Expect 4 matches</string>
      <key>Find</key>
      <data>hBnUEQ==</data>
      <key>Replace</key>
      <data>AAAAAA==</data>
    </dict>
    <dict>
      <key>Name</key>
      <string>AppleHDA</string>
      <key>Comment</key>
      <string>Expect 4 matches</string>
      <key>Find</key>
      <data>ixnUEQ==</data>
      <key>Replace</key>
      <data>BXYdEQ==</data>
    </dict>
  </array>
</dict>

```

Save the config.plist

Step 2: Download [DummyHDA here \(https://www.dropbox.com/s/lgzlopgoi9tnkji/DummyHDA.kext.zip\)](https://www.dropbox.com/s/lgzlopgoi9tnkji/DummyHDA.kext.zip). Copy LayoutX.xml.zlib và Platforms.xml.zlib from AppleHDA.kext/Contents/Resources/ (this is the working AppleHDA) to DummyHDA.kext/Contents/Resources/

Step 3: Open Info.plist in AppleHDA.kext/Contents/Plugins/AppleHDAHardwareConfigDriver.kext/Contents/ (this is the working AppleHDA). Copy all the value here:

```
IOKitPersonalities/HDA Hardware Config Resource/HDAConfigDefault
```

to Info.plist in DummyHDA.kext/Contents/:

IOKitPersonalities/HDA Hardware Config Resource/HDAConfigDefault

Key	Class	Value
▼ IOKitPersonalities	Dictionary	3 key/value pairs
▶ HDA Driver	Dictionary	8 key/value pairs
▶ HDA Generic Codec Driver	Dictionary	4 key/value pairs
▼ HDA Hardware Config Resource	Dictionary	6 key/value pairs
CFBundleIdentifier	String	com.apple.driver.AppleHDA
▼ HDAConfigDefault	Array	1 ordered objects
▼ 0	Dictionary	4 key/value pairs
CodecID	Number	283,902,569
ConfigData	Data	68 bytes: 01871C30 01...1 02171F00 01B70C02
FuncGroup	Number	1
LayoutID	Number	28
IOClass	String	AppleHDAHardwareConfigDriver
IOMatchCategory	String	AppleHDAHardwareConfigDriver
IOProbeScore	Number	2,000
IOProviderClass	String	AppleHDAHardwareConfigDriver

save the Info.plist

Step 4: Reinstall vanilla AppleHDA and DummyHDA to S/L/E by Kext Wizard, rebuild cache/repair permission then restart. You may need to restart once more to get the sound.

pokenguyen

Posted 15 June 2014 - 01:33 AM

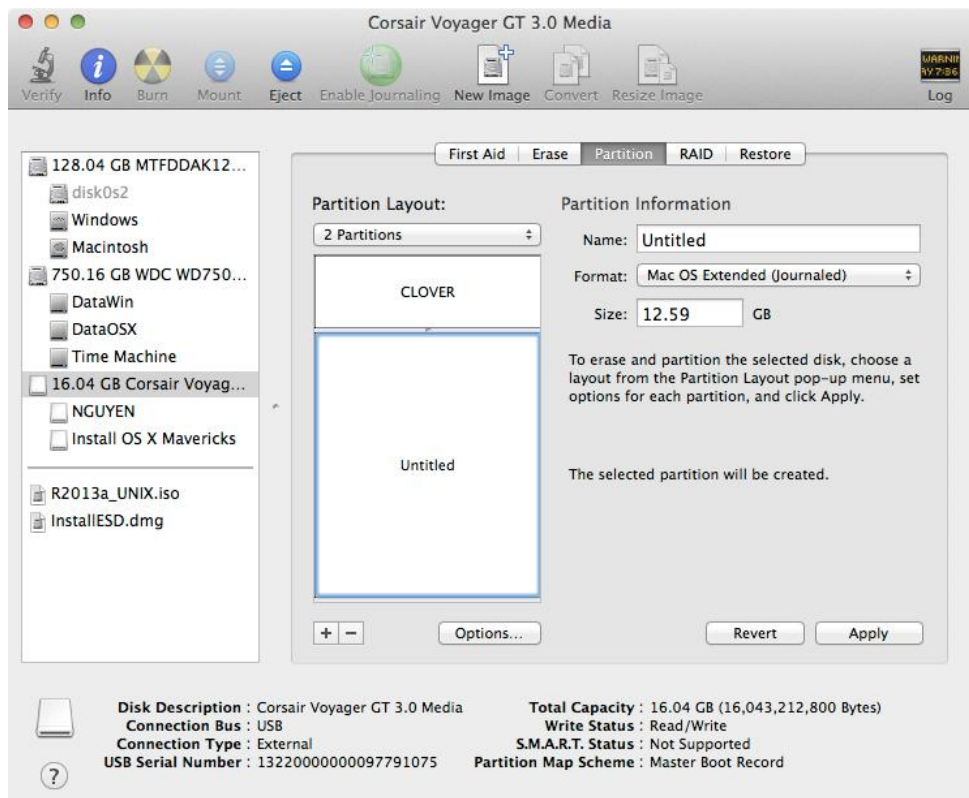
Installing Yosemite using Clover (UEFI)

You need a Yosemite installer for Mac, it can be downloaded from Appstore for free. Note that with Haswell CPUs you need a 10.9 installer or above. This guide is done under OS X, if you don't own a Mac then you can always create a virtual machine.

Create a Yosemite USB Installer

Step 1: You need a 8GB USB stick, format it with Disk Utility with the following options:

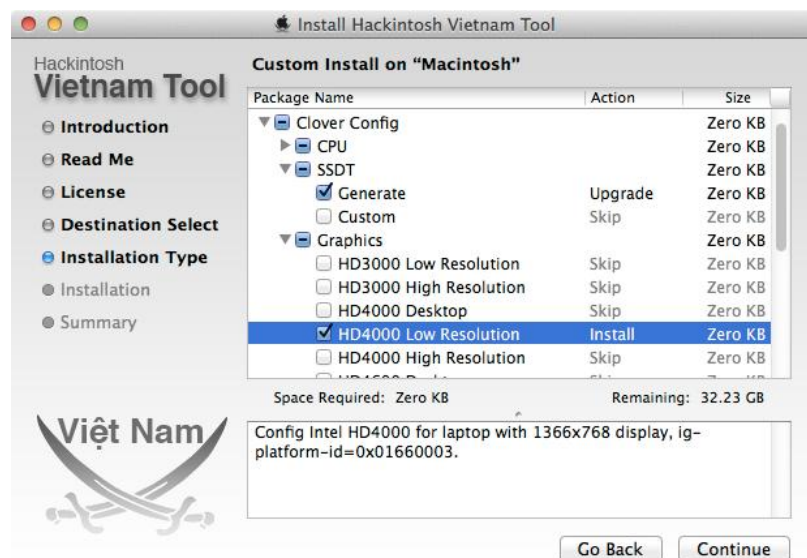
- Partition: 2 partitions
- Partition 1: name it Clover, Format MS-DOS (FAT), size larger than 300MB
- Partition 2: name it MacUSB, Format Mac OS Extended (Journaled), size larger than 6.5GB
- Options: Master Boot Record (MBR)
- Hit Apply



Step 2: Download this [Clover.zip](https://www.dropbox.com/s/k5gecc1qokimtao/Clover.zip) (<https://www.dropbox.com/s/k5gecc1qokimtao/Clover.zip>), unzip and copy the EFI folder to the root of the CLOVER partition. Use [Hackintosh Vietnam Tool](http://www.insanelymac.com/forum/topic/296669-hackintosh-vietnam-ultimate-aio-tool-for-hackintosh/) (<http://www.insanelymac.com/forum/topic/296669-hackintosh-vietnam-ultimate-aio-tool-for-hackintosh/>) to create the suitable config.plist for your PC:

- CPU: Select your CPU
- Graphics: Select your graphics
- SSDT: Generate
- Bootflag: kext-dev-mode=1

Install to current HDD, then copy the generated config.plist on the desktop **IN YOUR HDD** to the folder EFI\Clover of the CLOVER partition.



At this point you have 2 choices of creating the installer

Choice 1 (easy guide, but can result in blank screen after boot)

Step 3: Download OS X Yosemite from the Appstore, check if the "Install OS X Yosemite.app" is in the folder Application. Open Terminal and run this command (note that Untitled is a HFS+ partition)

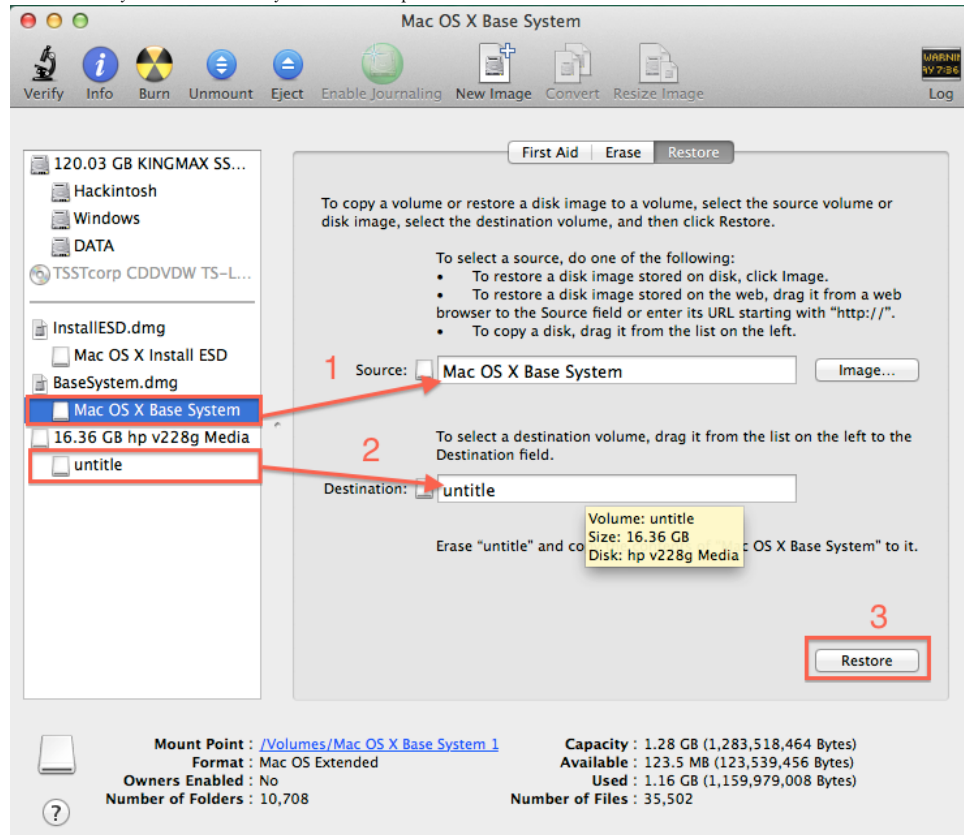
```
sudo /Applications/Install\ OS\ X\ Yosemite.app/Contents/Resources/createinstallmedia --volume /Volumes/MacUSB --applicationpath /Applications/Inst
```

Choice 2 (manual method)

Step 3: - Right click to Yosemite Install app > Show Package Contents > Contents > Shared Support, open InstallESD.dmg.

- Open OS X Install ESD partition, open BaseSystem.dmg (hidden file)

- Use Disk Utility to clone OS X Base System to MacUSB partition.



- Go to System/Installation of USB and delete the alias "Packages", then go to "OS X Install ESD" partition, copy the "Packages" to the folder System/Installation of your USB

- Copy BaseSystem.dmg and BaseSystem.chunklist (hidden files) from OS X Install ESD to OS X Base System (on your USB)

Installing Yosemite

Step 1: Boot from the USB installer, select "Boot OS X Install from Install OS X Yosemite"

Step 2: If the config.plist is correct, you should arrive at the installation windows. Hit Spacebar if any notifications about bluetooth keyboard/mouse appears. Select menu Utilities, select Disk Utility

Step 3: Select the partition you want to install OS X to, switch to Erase tab, do the following options:

- Format: Mac OS Extended (Journaled)
- Name: Pick anything you want
- Hit Erase

Step 4: After the formatting process is done, close Disk Utility, hit Continue, hit Agree. Select the formatted partition then hit Install

Note

- It will automatically restart and you will have to reboot into the installer again in order to begin the REAL installation process.

Step 5: After installation process is done, reboot into the USB Installer and boot into your newly created OS X partition.

midi ♪

Posted 15 June 2014 - 01:47 AM

Extra mini-Guides for Advanced Users



CloverEFI

the Clover Legacy, to boot UEFI/EFI systems on Legacy Bios systems

[#330 \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2097514\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2097514)

Windows Installing the manual way

Install Windows if it stucks

[#360 \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2098291\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2098291)

Converting MBR/hMBR to GPT

to avoid the reinstall of Windows 🙄

©fusion71au

[#359 \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2098111\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2098111)

Mount EFI Partition : The NooB way

aka: the easy way

©fusion71au

[#338 \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2097750\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2097750)

2GB on Intel HD4000 Graphics

[#421 \(http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2102367\)](http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/?p=2102367)

If there still a mini-Guide not shown here, write it on the guide or post the link in a comment (and if there is no respond PM me. NOT PREFERABLE NOR RECOMMENDED!) 😊

Ahmed_shiko

Posted 15 June 2014 - 09:31 PM

problem p- state stepper error 18 at step 35 in context 2 on cpu 0

mysdt-ssd <https://www.dropbox.com/s/2avc1dov8qlkuur/My%20sdt%20-ssdt.rar> (<https://www.dropbox.com/s/2avc1dov8qlkuur/My%20sdt%20-ssdt.rar>)

vusun123

Posted 15 June 2014 - 10:11 PM

Based on the CPU in your signature, I guess you are using both GeneratePState / GenerateCState with your SSDT and didn't DropSSDT ?

midi ♪

Posted 16 June 2014 - 08:10 AM

DSDT/SSDT: Basic knowledge

...

Note: If you have multiple SSDT that is needed to be loaded, rename them as: SSDT.aml, SSDT-1.aml, SSDT-2.aml, ... and so on.

I have 6 SSDTs, if I rename them like that, they will all load @ boot ?

pokenguyen

Posted 16 June 2014 - 01:30 PM

Yes, but if you want to load all OEM ssdt, just set DropOEM SSDT = false. Read here:

<http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2030039> (<http://www.insanelymac.com/forum/topic/298027-guide-aio-guides-for-hackintosh/page-2#entry2030039>)

AsusGuy

Posted 17 June 2014 - 01:31 AM

Hello,

Before I go on, here is my spec:

- Asus Touch Laptop
- Intel i5 4th gen
- Intel 4400 HD
- 6GB Ram
- 750GB HDD

I put config.plist in my EFI Clover (EFI/Clover)

When I boot up, and select Boot Mac OS X Base System, it just restarts (I even tried the bootflags as well, -v and -x).

Any help would be great.

Thanks.

pokenguyen

Posted 17 June 2014 - 04:19 AM

Hello,

Before I go on, here is my spec:

- Asus Touch Laptop
- Intel i5 4th gen
- Intel 4400 HD
- 6GB Ram
- 750GB HDD

I put config.plist in my EFI Clover (EFI/Clover)

When I boot up, and select Boot Mac OS X Base System, it just restarts (I even tried the bootflags as well, -v and -x).

Any help would be great.

Thanks.

Post your config.plist.

AsusGuy

Posted 17 June 2014 - 09:02 AM

Post your config.plist.

Config.plist:

Since I cannot attach it, I paste them in pastebin.

<http://pastebin.com/n6M1eGea> (<http://pastebin.com/n6M1eGea>)

Here is the fully laptop spec:

<http://www.newegg.com/N82E16834231549> (<http://www.newegg.com/Product/Product.aspx?Item=N82E16834231549>)

pokenguyen

Posted 17 June 2014 - 09:57 AM

You have Haswell Mobile CPU, not IvyBridge Mobile CPU. What did you select when you generate config.plist?

AsusGuy

Posted 17 June 2014 - 11:01 AM

You have Haswell Mobile CPU, not IvyBridge Mobile CPU. What did you select when you generate config.plist?

I selected

- CPU: IvyBridge Mobile
- SSDT: Generate
- Graphics: HD4400/4600 Mobile

Oh okay, gotta. So I change CPU (in hackintosh vietnam tool) to Haswell Mobile?

pokenguyen

Posted 17 June 2014 - 11:06 AM

You are using Haswell, not Ivybridge.

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