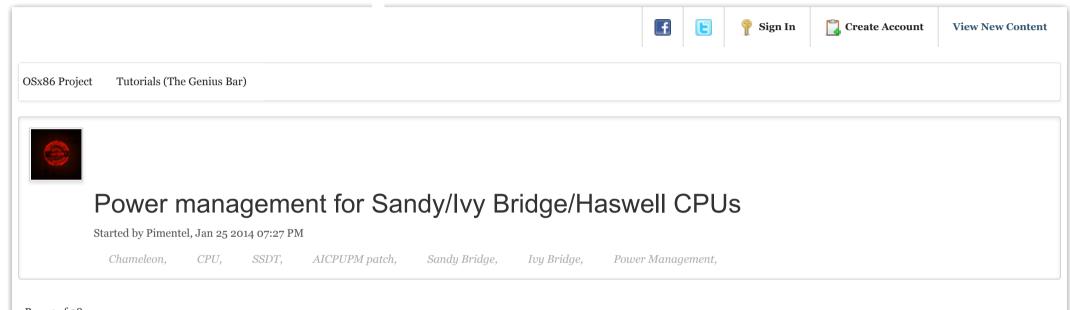


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News Forum Downloads OSx86 Wiki



Page 1 of 28

Pimentel

Posted 25 January 2014 - 07:27 PM

Hello folks!



GUIDE UPDATED - Added support for 10.10 XCPM kernel

First of all it is very good that we have an updated version of Chameleon, so please take this most updated version right here in the official thread: http://www.insanelym...ameleon-22-svn/ (http://translate.googleusercontent.com/translate c?depth=1&hl=pt-BR&tl=en&u=http://www.insanelymac.com/forum/files/download/59-chameleon-22-svn/&usg=ALkJrhjTIkLjeoBI49QLyhbJdh8kXKoAXA)

Since 10.7.4 for CPUs and SandyBridger IvyBridger P and C States - **that are responsible for the proper functioning of energy** - are no longer provided by Chameleon, in others words, only activate GeneratePStates and GenerateCStates doesn't work any more.

A quick exit is to use the kext NullCPUPowermanagement, but I don't recommend continued use of this kext because it disables

AppleIntelCPUPowermanagement kext which is responsible for power management

The most viable and recommended solution that will give to you a good power management is the creation of a SSDT which will contain all P-States and C-States.

Step-by-Step

Creating the SSDT

Create your SSDT based on the script Pike R. Alpha Run these commands in terminal

 $\label{lem:curl-o-piker-Alpha} $$ \cmp{Piker-Alpha}/ssdtPRGen.sh/master/ssdtPRGen.sh$

After you run it you need to put the **Maximum Frequency** and **Maximum TDP** of your CPU ... see these information about your CPU in here:

<a href="http://ark.intel.com/(http://translate.googleusercontent.com/translate_c?depth=1&hl=pt-BR&ie=UTF8&prev=_t&rurl=translate.google.com.br&sl=pt-BR&tl=en&u=http://ark.intel.com/&usg=ALkJrhizC3chrWPHK2Nvcq8-RZnBHRVSTO)

This is an example of one i7 2600 that has 3800MHz(3.8 Ghz) of maximum frequency and 95 of TDP

sudo ./ssdtPRGen.sh 3800 95

Place the SSDT in **Extra** folder and rename ssdt_pr for SSDT

Note: Some CPUs are auto-detected by the script, the script just now detects the maximum frequency and TDP, so if simply after running the first command you are prompted to save the SSDT in Extra folder(not asking to enter your max frequenc. and TDP as the guide teach),don't worry about it, just to confirm, because the script already detected everything and created the SSDT and the time is already asking to save the file.

Patch AppleIntelCPUPowermanagement

In older mobos is necessary to patch the kext AICPUPM to enable recording in Bios, otherwise you will get a kernel panic because it can't write to the Bios ...

Download the patch: <u>AICPUPMpatch (http://olarila.com/apps/AICPMPatch.zip)</u>

Run in terminal

cd ~/Downloads/AICPMPatch

Just find and list ...

sudo perl AICPMPatch.pl /System/Library/Extensions/AppleIntelCPUPowerManagement.kext/Contents/MacOS/AppleIntelCPUPowerManagement

Then give patch in wrmsr to enable recording in Bios

sudo perl AICPMPatch.pl /System/Library/Extensions/AppleIntelCPUPowerManagement.kext/Contents/MacOS/AppleIntelCPUPowerManagement

After that you need to update the cache

sudo touch /System/Library/Extensions

Kernel Patch for Haswell CPU(Kernel XCPM)

Since version 10.8.5 a new kernel was implemented on OSX, he called XNU kernel (XNU CPU Power Management (xcpm)).

This kernel has the power management moved down into it, in past we used AppleIntelCPUPowermanagement kext to control power management and some Bios were lockeds, in others words, were not allowed to write information on it, so the patch was created for kext AICPUPM to solve this problem (see above how to patch the kext AICPUPM).

But with the power management moved down into the kernel(XNU kernel) AICPUPM the kext isn't loaded and so the same mistake that we were having in the past with AICPUPM kext(Kernel Panic) are having now with the XNU kernel in some models CPU haswell(mainly in portable models, some Desktop models doesn't need patch)

To solve this problem it is necessary to patch the kernel.

For **10.10** you need Open the terminal and type:

cd /Volumes/Name of your HDD/System/Library/Kernels/

Note that in 10.10 kernel directory was changed. Copy this perl code is for 10.10 version, put line by line

For **10.9.x** and **10.8.5** you need run this command in terminal: