

Mountain Lion HDMI Audio Sandy Bridge HD3000 Graphics/6 Series Motherboards w/AMI EFI or BIOS or Award BIOS/DSDT

A simple HDMI Audio dsdt editing tool for OS X HDMI audio on 6 Series motherboards with HD4000 graphics. Based on the MaciASL built by SJ_UnderWater, the Apply button automatically makes the HDMI audio dsdt edits.

Verify BIOS supplier:

1. Verify first line of an AMI dsdt is similar to:

DefinitionBlock ("./dsdt.aml", "DSDT", 2, "ALASKA", "A M I", 0x000000..)

2. Verify first line of an Award dsdt is similar to:

DefinitionBlock ("./dsdt.aml", "DSDT", 1, "GBT ", "GBTUACPI", 0x00001000)

Benefits

- 1. Automated HDMI audio dsdt editing
- 2. Installs HD4000 integrated graphics HDMI audio dsdt edits
- 3. Installs AMD/Nvidia discrete graphics card HDMI audio dsdt edits
- 4. No copy, no paste, no finding the right place to paste....

Before You Start:

- 1. OS X does not provide HDMI audio controls (No volume, no mute, no balance, etc.)
- 2. The connected HDMI device (TV, receiver, etc.) provides any and all audio controls
- 3. Delete any audio enablers (S/L/E/HDAEnabler1.kext)
- 4. Remove any property-type injection (Extra/org.chameleon.Boot.plist)

Requirements

- 1. Intel
- 1a. Sandy Bridge 6 Series motherboards H61, H67, P67, Z68
- 2. OS X
- 2a. Mountain Lion 10.8.2 and newer

- 3. dsdt no compile errors
- 3a. No dsdt, extract dsdt, see I. Preparation
- 4. Motherboard onboard audio codec
- 4a. Realtek supported audio codecs (8xy): 885, 887, 888, 889, 892, 898
- 4b. Unsupported audio codecs: ML HDMI audio works with any unsupported audio codec/no onboard audio
- 5. AppleHDA.kext (one of the following)
- 5a. ML: MultiBeast 5.2.1 or newer/Audio/Realtek ALC8xx/With DSDT/ALC...
- 5b. ML: Native AppleHDA.kext (unsupported audio codecs)

More Information Special HDMI Audio Considerations Detailed Instructions

See Mountain Lion HDMI Audio - AMI DSDT

Or Mountain Lion HDMI Audio - Award DSDT

Tools

- 1. MaciASL MaciASL | Free Development software downloads at SourceForge.net
- 2. IORegistryExplorer see [Guide] How to Make a Copy of IOReg
- 3. CarbonCopyCloner or SuperDuper
- 4. Download/ZIP: https://github.com/toleda/audio hdmi hd3000

Mountain Lion Audio IDs (10.8.2 AppleHDA.kext_v2.3.1 or newer)

- 1. Audio ID 1/A1: AMD/Nvidia HDMI audio with 3/5/6 port onboard audio
- 2. Audio ID 3/A3: HD3000 HDMI audio with 3/5/6 port onboard audio

Note: For Audio ID: 3 (HD3000 HDMI audio), the appropriate Patch must be edited.

Patches - github.com/toleda/audio_hdmi_hd3000/tree/master/Patches

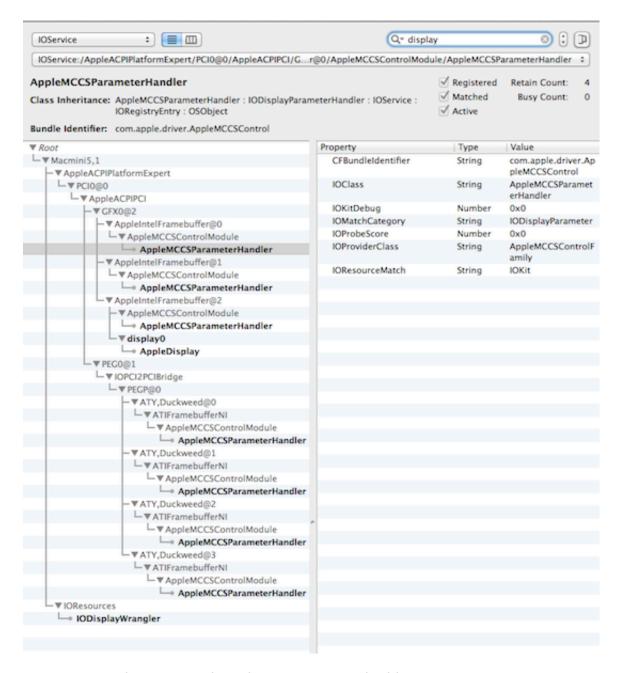
- IB1. AMI-EFI/Clean Compile fix native EFI dsdt compiler errors for successful dsdt edits
- SB2. AMI-EFI-HD3000-AMD-Nvidia-6_Series-A1 AMD/Nvidia/HD3000 HDMI audio dsdt edits
- SB3. AMI-BIOS-HD3000-AMD-Nvidia-6_Series-A1 AMD/Nvidia/HD3000 HDMI audio dsdt edits
- SB4. Award-BIOS-HD3000-AMD-Nvidia-6_Series-A1 AMD/Nvidia/HD3000 HDMI audio dsdt edits
- SB5. HD3000-on-7_Series_MB HD3000 MEI dsdt edit

Attachments

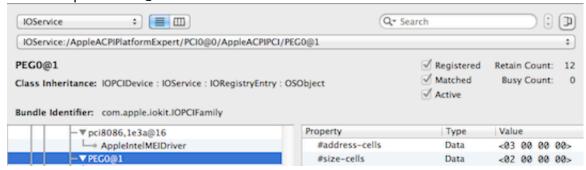
N/A ML HDMI audio dsdt edits are available in MaciASL/Patch

Key Information

- 1. Determine graphics device names and address
- 1a. IOReg/Search display
- 1a. Example: Discrete Graphics PEG0@1, P0P1@1, P0P3@3, NVE3@3, etc.
- 1a. Example: Integrated Graphics GFX0@2



- 2. Determine discrete graphics device names and address
- 2a. IOReg/Search PEG0
- 2a. Example: PEG0@1



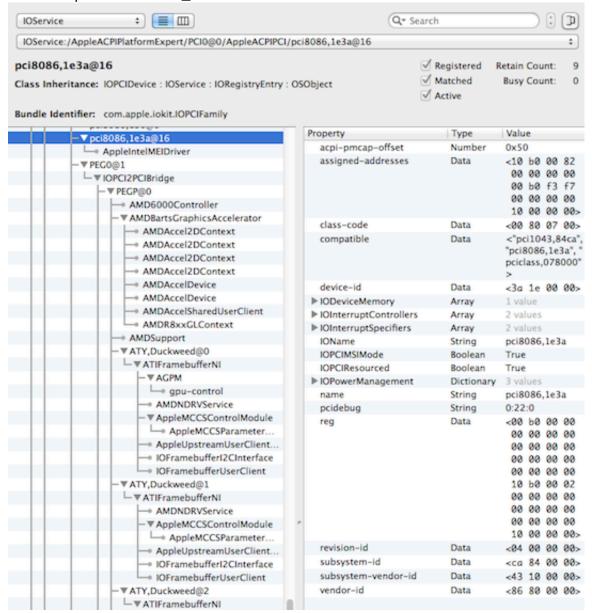
			acpi-device	String	IOACPIPlatformDe- ice is not
	→ AMD6000Controller				serializable
	- ▼ AMDBartsGraphicsAccelerator		acpi-path	String	IOACPIPlane:/_SB/
	AMDAccel2DContext				PCI0@0/
	→ AMDAccel2DContext				PEG0@10000
	AMDACCEI2DContext		acpi-pmcap-offset	Number	0x80
			built-in	Data	<00>
	→ AMDAccel2DContext		class-code	Data	<00 04 06 00>
	→ AMDAccelDevice		compatible	Data	<"pcif,0", "pci808
-	→ AMDAccelDevice		Companie	Data	,151", "pciclass,06
	→ AMDAccelSharedUserClient				0400">
	→ AMDR8xxGLContext		device-id	Data	<51 01 00 00>
	→ AMDSupport		IODTPersist	Data	0
	-▼ATY,Duckweed@0		▶ IOInterruptControllers	Array	1 value
	L ▼ ATIFramebufferNI		▶ IOInterruptSpecifiers	Array	1 value
-	- ▼ AGPM		IOName	String	pci-bridge
	□ gpu-control		IOPCIConfigured	Boolean	True
	- AMDNDRVService		IOPCIExpressASPMDefault	Number	0x0
	- ▼ AppleMCCSControlModule		IOPCIExpressLinkCapabilities		0x261ad03
	AppleMCCSParameterH		IOPCIExpressLinkStatus	Number	0x5101
	AppleUpstreamUserClient		IOPCIResourced	Boolean	True
	→ IOFramebufferI2CInterface		▶ IOPowerManagement	Dictionary	3 values
	☐ IOFramebufferUserClient		name	String	pci-bridge
	-▼ATY,Duckweed@1		pcidebug	String	0:1:0(1:1)
	— ▼ ATIFramebufferNI		ranges	Data	<00 00 00 82
	→ AMDNDRVService		ranges	Data	00 00 00 02
	- ▼ AppleMCCSControlModule				00 00 e0 f7
	→ AppleMCCSParameterH				00 00 00 82
	→ AppleUpstreamUserClient				00 00 00 00
	→ IOFramebufferI2CInterface				00 00 e0 f7
	→ IOFramebufferUserClient				00 00 00 00
	- ▼ ATY,Duckweed@2				00 00 10 00
	— ▼ ATIFramebufferNI				00 00 00 c2
	→ AMDNDRVService				0f 00 00 00
	— ▼ AppleMCCSControlModule				00 00 00 10
	AppleMCCSParameterH				00 00 00 c2
	AppleUpstreamUserClient				0f 00 00 00
	→ IOFramebufferI2CInterface				00 00 00 10
	→ IOFramebufferUserClient				00 00 00 00
	L. ▼ ATY, Duckweed@3				00 00 00 10
	■ ▼ ATIFramebufferNI				00 00 00 81
	→ AMDNDRVService				00 00 00 00 00 e0 00 00
	—▼AppleMCCSControlModule				00 00 00 00
					00 00 00 81
	- AppleUpstreamUserClient				00 e0 00 00
	- IOFramebufferI2CInterface				00 00 00 00
	→ IOFramebufferUserClient				00 10 00 00>
	→ PEGP@0,1		reg	Data	<00 08 00 00
	- ▼ RP01@1C		9	Duta	88 88 88 88
	└─ IOPCI2PCIBridge				88 88 88 88
	-₩RP07@1C,6				88 88 88 88
	L-▼IOPCI2PCIBridge				99 99 99 99>
	L→ PXSX@0		revision-id	Data	<89 88 88 88>
	- ▼ RP08@1C,7		subsystem-id	Data	<88 88 88 88>
	L ▼ IOPCI2PCIBridge		subsystem-vendor-id	Data	<0f 00 00 00>
	→ PXSX®0		vendor-id		
	-▼SAT0@1F,2		vendor-id	Data	<86 80 00 00>

- 3. Determine integrated graphics device names and address (N/A HD3000 is not enabled)
- 3a. IOReg/Search GFX0, Select GFX0, Cancel Search (X), Scroll up
- 3a. Example: GFX0@2

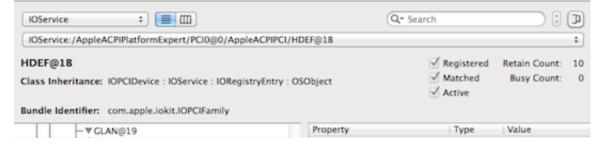


GFX0@2 Class Inheritance: IOPCIDevice : IOService : IORegistryEntry : OSObject Bundle Identifier: com.apple.iokit.IOPCIFamily			✓ Registered✓ Matched✓ Active	Retain Count: 24 Busy Count: 0	
	-▼GFX0@2	Property	Type	Value	
$\overline{}$	- ▼ AppleIntelCapriController	AAPL,gray-page	Data	<01 00 00 00>	
	☐ AppleMEClientController	AAPL,gray-value	Data	<c3 00="" 64="" 8c=""></c3>	
	- ▼ AppleIntelFramebuffer@0	AAPL,ig-platform-id	Data	<0a 00 66 01>	
	-▼AGPM	AAPL jokit-ndry	Data	<20 bd db 80	
	L-▼ qpu-control	rou chouse mare	Data	7f ff ff ff>	
	☐ IOHWControl	acpi-device	String	IOACPIPlatformD	
	─▼AppleMCCSControlModule			evice is not	
	☐ AppleMCCSParameterHandler			serializable	
	- AppleUpstreamUserClientDriver	acpi-path	String	IOACPIPlane:/	
	- IOFramebufferI2CInterface			_SB/PCI0@0/	
	→ IOFramebufferUserClient	and and addresses	D	GFX0@20000	
	- ▼ AppleIntelFramebuffer@1	assigned-addresses	Data	<10 10 00 82 00 00 00 00	
	—▼AppleMCCSControlModule			00 00 00 00 00 00 80 f7	
	☐ AppleMCCSParameterHandler			88 88 88 88	
	AppleUpstreamUserClientDriver			00 00 40 00	
	IOFramebufferI2CInterface			18 10 00 c2	
	☐ IOFramebufferUserClient			0f 00 00 00	
	- ▼ AppleIntelFramebuffer@2			00 00 00 20	
	- ▼ AppleMCCSControlModule			00 00 00 00	
	☐ AppleMCCSParameterHandler			00 00 00 10	
\perp	→ AppleUpstreamUserClientDriver			20 10 00 81	
	- ▼ display0			99 99 99 99	
	☐ AppleDisplay			00 f0 00 00 00 00 00 00	
	→ IOFramebufferI2CInterface			48 88 88 88>	
	IOFramebufferSharedUserClient	attached-gpu-control-	nath String	IOService:/	
	☐ IOFramebufferUserClient	attached-gpu-control-patri	pater String	AppleACPIPlatfor	
-				mExpert/	
	Gen/2DContext Gen/2DContext			PCI0@0/	
	Gen72DContext	^		AppleACPIPCI/	
	Gen725Context Gen7Device			GFX0@2/ AppleIntelFrameb	
	→ Gen7GLContext			uffer@0/AGPM	
	Gen7Surface	built-in	Data	<88>	
	→ Gen7Surface	class-code	Data	<00 00 03 00>	
	→ Gen7Surface	compatible	Data	<"pci1043,84ca",	
	Gen7Surface	Companion	Date	"pci8086,166", "p	
	- ▼GLAN@19			ciclass,030000">	
	L-▼AppleIntelE1000e	device-id	Data	<66 01 00 00>	
	∟▼en0	hda-gfx	Data	<"onboard-1">	
	L ₩ IONetworkStack	▶ IODeviceMemory	Array	3 values	
	☐ IONetworkStackUserClient	IOHibernateState	Data	<00 00 00 00>	
	- ▼ HDEF@1B	▶ IOInterruptControllers	Array	2 values	
	L-▼AppleHDAController@1B	▶ IOInterruptSpecifiers	Array	2 values	
	- ▼ IOHDACodecDevice@18,0	IOName	String	display	
	L-▼ IOHDACodecDriver	IOPCIMSIMode	Boolean	True	
	□▼IOHDACodecFunction@18,0,1	IOPCIResourced	Boolean	True	
	L-▼ AppleHDACodecGeneric	▶ IOPowerManagement	Dictionary	3 values	
		model	Data	<"Intel HD Graph	
	□▼IOHDACodecDevice@1B,3		Carter	ics 4000">	
	L-▼IOHDACodecDriver	name	String	display	
	☐ IOHDACodecFunction@1B,3,1	pcidebug	String	0:2:0	
	-₩LPCB@1F	reg	Data	<00 10 00 00	
	☐ AppleLPC			99 99 99 99	
	pci8086,150@0			88 88 88 88	
	- ♥ pci8086,1e3a@16			88 88 88 88	
	☐ AppleIntelMEIDriver			10 10 00 02	
	- ▼ PEG0@1			00 00 00 00	
	— ▼ IOPCI2PCIBridge			00 00 00 00	

- 4. Verify MEIDriver (Applies only to HD3000 on 7 series)
- 4a. IOReg/Search MEI, Select MEI Cancel Search (X), Scroll up
- 4b. Example: MEI device_id 3a1e



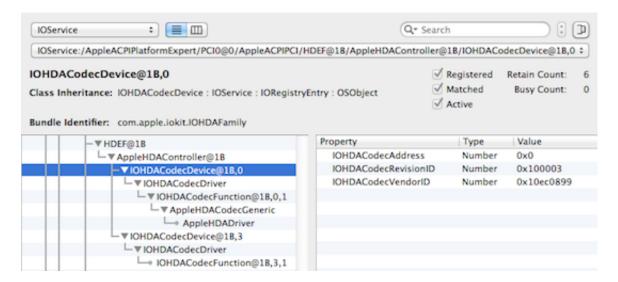
- 5. Verify HDEF
- 5a. IOReg/Search HDEF, Select HDEF, Cancel Search (X), Scroll up
- 5b. Example: HDEF/layout-id 0x00 0x00 0x00 0x00 (not valid)



		acpi-device	String	IOACPIPlatformDe
— ▼ en0 — ▼ IONetworkStack				ice is not serializable
→ IONetworkStackUserClient		acpi-path	String	IOACPIPlane:/_SB/
-▼HDEF@1B				PCI0@0/ HDEF@1b0000
— ▼AppleHDAController@1B		acpi-pmcap-offset	Number	0x50
- ▼ IOHDACodecDevice@18,0		assigned-addresses	Data	<10 d8 00 82
L ▼ IOHDACodecDriver		assigned-addresses	Data	00 00 00 00
				00 00 f3 f7
— ▼ AppleHDACodecGeneric				88 88 88 88
— AppleHDADriver				00 40 00 00>
□▼IOHDACodecDevice@1B,3		built-in	Data	<00>
L-▼IOHDACodecDriver		class-code	Data	<00 03 04 00>
☐ IOHDACodecFunction@1B,3,1		compatible	Data	<"pci1043,851f",
-▼LPCB@1F				pci8086,1e20", "p
→ AppleLPC				iclass,040300">
→ pci8086,150@0		device-id	Data	<20 1e 00 00>
- ▼ pci8086,1e3a@16		▶ IODeviceMemory	Array	1 value
AppleIntelMEIDriver		▶ IOInterruptControllers	Array	2 values
- ▼ PEGO@1		▶ IOInterruptSpecifiers	Array	2 values
L ▼ IOPCI2PCIBridge		IOName	String	pci8086,1e20
─▼ PEGP@0 → AMD6000Controller		IOPCIExpressASPMDefault	Number	0x0
→ AMD6000Controller → WAMDBartsGraphicsAccelerator		IOPCIExpressLinkCapabilities		0x0
AMDAccel2DContext		IOPCIExpressLinkStatus	Number	0x0
AMDAccel2DContext AMDAccel2DContext		IOPCIMSIMode	Boolean	True
- AMDAccel2DContext		IOPCIResourced	Boolean	True
- AMDACCEI2DContext		▶ IOPowerManagement	Dictionary	3 values
- AMDACCEIZOCORTEXT		layout-id	Data	<00 00 00 00>
- AMDAccelDevice		name	String	pci8086,1e20
→ AMDAccelSharedUserClient		pcidebug	String	0:27:0
AMDR8xxGLContext		reg	Data	<00 d8 00 00
- AMDSupport	0			00 00 00 00 00 00 00 00
-▼ATY,Duckweed@0				00 00 00 00
L-▼ ATIFramebufferNI				88 88 88 88
— ▼ AGPM	н			10 d8 00 02
□ gpu-control				88 88 88
→ AMDNDRVService	н			00 00 00 00
— ▼ AppleMCCSControlModule				00 00 00 00
→ AppleMCCSParameterH	н			00 40 00 00>
AppleUpstreamUserClient	ш	revision-id	Data	<04 00 00 00>
- IOFramebufferI2CInterface	1	subsystem-id	Data	<1f 85 00 00>
→ IOFramebufferUserClient		subsystem-vendor-id	Data	<43 10 00 00>
- ▼ ATY,Duckweed@1		vendor-id	Data	<86 80 00 00>
— ▼ ATIFramebufferNI				
AMDNDRVService				
- ▼ AppleMCCSControlModule				
☐ AppleMCCSParameterH				
→ AppleUpstreamUserClient				
→ IOFramebufferI2CInterface				
☐ IOFramebufferUserClient				
-▼ATY,Duckweed@2				
— ▼ ATIFramebufferNI				
→ AMDNDRVService				
- ▼ AppleMCCSControlModule				
AppleMCCSParameterH				
AppleUpstreamUserClient				
→ IOFramebufferI2CInterface				
→ IOFramebufferUserClient				

- 6. Determine motherboard audio codec device_id (Select 2nd line after HDEF) 6a. IOReg/AppleHDAController/OHDACodecDevice/IOHDACodecVendorId 6b. Example: IOReg/10ec0899

- 6c. Note: if CodecVendorId is not 10ec8xx, onboard audio is not supported.



Evaluate IOReg > HDMI Audio dsdt edit file Key Information

1. AMI EFI/6 Series

AMI EFI/6 Series	IOReg	HDMI Audio Edit file	After HDMI Audio Edits
discrete graphics	@	PEGO@1	PEGP@1
integrated graphics	@	GFX0@2	IGPU@2

- 1a. If IOReg shows PEGO@1, no edit is required
- 1b. If IOReg shows ABCD@n, the edits are:
- 1c. Edit Name/Find: PEG0/Replace All: ABCD
- 1d. Edit Address/Find: 0x00010000/Replace All: 0x000n0000
- 1e. If IOReg shows no GFX0@2, no edit is required
- 1f. If IOReg shows DEFG@2, the edits are:
- 1g. Edit Name/Find: GFX0/Replace All: DEFG
- 1h. If Audio ID: 1 is correct, no edit is required
- 1i. For Audio ID: 3/Find: 0x01, 0x00, 0x00, 0x00/Replace All: 0x03, 0x00, 0x00, 0x00

2. AMI BIOS/6 Series

AMI BIOS/6 Series	IOReg	HDMI Audio Edit file	After HDMI Audio Edits
discrete graphics	@	P0P1@1	PEGP@1
integrated graphics	@	GFX0@2	IGPU@2

- 2a. If IOReg shows POP1@1, no edit is required
- 2b. If IOReg shows ABCD@n, the edits are:
- 2c. Edit Name/Find: P0P1/Replace All: ABCD
- 2d. Edit Address/Find: 0x00010000/Replace All: 0x000n0000
- 2e. If IOReg shows no GFX0@2, no edit is required
- 2f. If IOReg shows DEFG@2, the edits are:
- 2g. Edit Name/Find: GFX0/Replace All: DEFG
- 2h. If Audio ID: 1 is correct, no edit is required
- 2i. For Audio ID: 3/Find: 0x01, 0x00, 0x00, 0x00/Replace: 0x03, 0x00, 0x00, 0x00

3. Award BIOS/6 Series (Verify PEG0 address, 1 or 3)

Award BIOS/6 Series	IOReg	HDMI Audio Edit file	After HDMI Audio Edits
discrete graphics	PEG0@1	PEG0@1	PEGP@1

integrated graphics	IGD0@2	IGD0@2	IGPU@2
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- 3a. IOReg shows PEGO@1 and IGDO@2 (if present)
- 3b. If Audio ID: 1 is correct, no edit is required
- 3c. For Audio ID: 3/Find: 0x01, 0x00, 0x00, 0x00/Replace All: 0x03, 0x00, 0x00, 0x00

Patch File Edits

- 1. If the Patch file requires edits,
- 1a. Edit the Patch file in MaciASL Patch window or
- 1b. Download the Patch from:

github.com/toleda/audio_hdmi_hd3000/tree/master/Patches

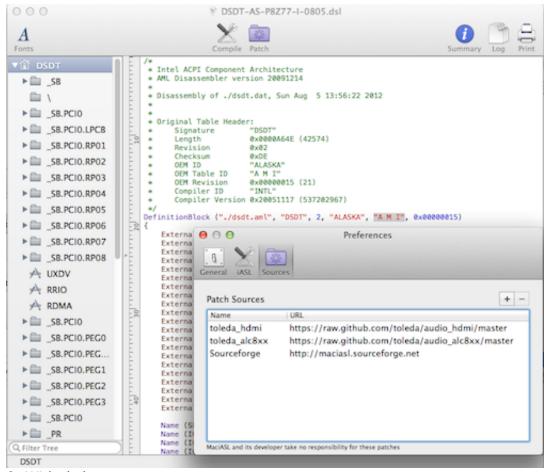
Select Folder/Select Patch/Raw/Copy/Save to Desktop

edit with TextEdit and save to desktop.

Start of Procedure Sandy Bridge/HD3000/6 Series Motherboards - Mountain Lion HDMI audio edits

I. Preparation

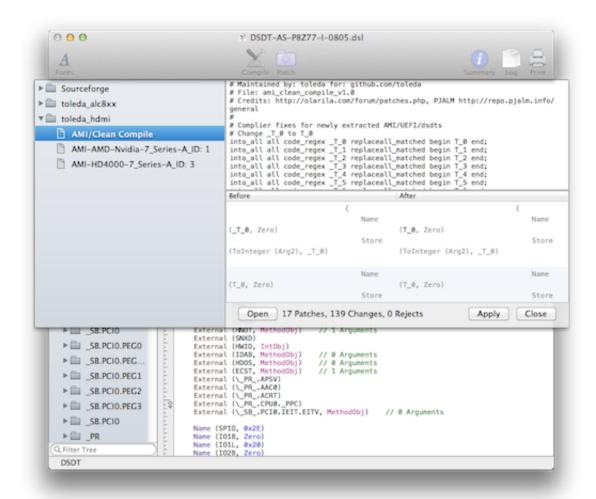
- 1. Make bootable backup of system (CarbonCopyCloner or SuperDuper)
- 2. Make a copy of IOReg, see **Tools**/2.
- 3. Verify no audio enablers (S/L/E/HDAEnabler1.kext, HDAEnabler8xx.kext, etc.)
- 4. MultiBeast 5.2.1 or newer Select/Drivers & Bootloaders/Drivers/Audio/Realtek ALC8xx/With DSDT/ALC8--, if Realtek ALC8xx audio,
- 5. Download MaciASL and install/Applications, see **Tools**/1.
- 6. Applications/MaciASL
- 7. MaciASL/Preferences/Sources/+/https://raw.github.com/toleda/audio_hdmi_hd3000/master
- 7a. URL: https://raw.github.com/toleda/audio_hdmi_hd3000/master
- 7b. Screenshot



- 8. With dsdt,
- 8a. Copy Extra/dsdt.aml to Desktop
- 8b. MaciASL/File/Open/Desktop/dsdt.aml
- 8c. jump to II. Native Compile
- 9. If no dsdt,
- 9a. MaciASL/File/New from ACPI/DSDT
- 9b. MaciASL/File/Save As../Desktop/dsdt-motherboard-native.dsl

II. Native Compile

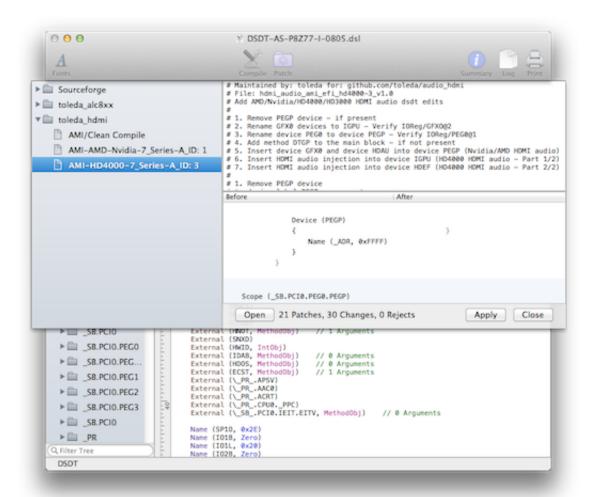
- 10. Verify AMI dsdt (1st line)
- 10a. DefinitionBlock ("./dsdt.aml", "DSDT", 2, "ALASKA", "A M I", 0x000000...) OR
- 10. Verify Award dsdt (1st line)
- 10a. DefinitionBlock ("./dsdt.aml", "DSDT", 1, "GBT ", "GBTUACPI", 0x00001000)
- 10b. If dsdt is not AMI or Award, this method will not work. Full Stop.
- 11. MaciASL/Patch/Select AMI-EFI/Clean Compile (AMI-EFI only)
- 11a. Screenshot



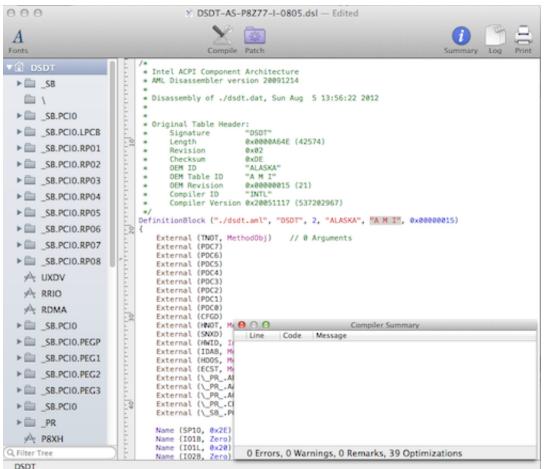
- 12. MaciASL/Patch/Apply
- 13. MaciASL/Patch/Close
- 14. MaciASL/Compile
- 14a. See Screenshot at 19a
- 15. If no errors, jump to III. Apply Patch file MaciASL
- 15a. Errors, see Troubleshooting/Problem Reporting/4.

III. Apply Patch file - MaciASL

- 16. Choose Patch:
- 16a. Patch/toleda_hdmi_hd3000/Select appropriate Patch file and make any edits OR Patch/Open/Desktop/Edited Patch file from **Patch File Edits** above
- 16b. Screenshot



- 17. MaciASL/Patch/Apply
- 18. MaciASL/Patch/Close
- 19. MaciASL/Compile
- 19a. Screenshot

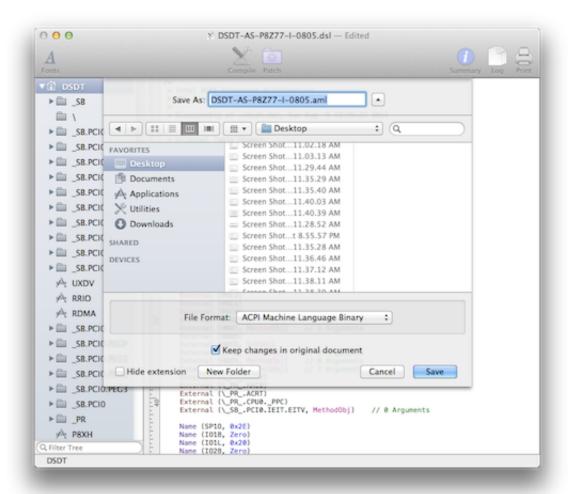


20. If no errors, jump to IV. Save dsdt.aml - MaciASL

20a. Errors, see Troubleshooting/Problem Reporting/4.

IV. Save dsdt.aml - MaciASL

- 21. MaciASL/File/Save As... /ACPI Machine Language Binary/Desktop/dsdt.aml (add extension)
- 21a. Screenshot



V. Install dsdt.aml - MaciASL

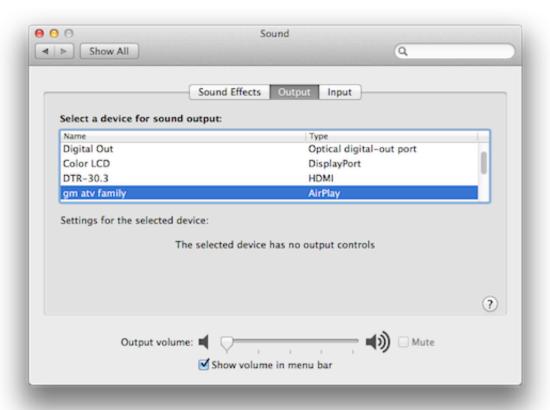
22. MaciASL/File/Save As... /ACPI Machine Language Binary/Extra/dsdt.aml (add extension)

VI. Restart

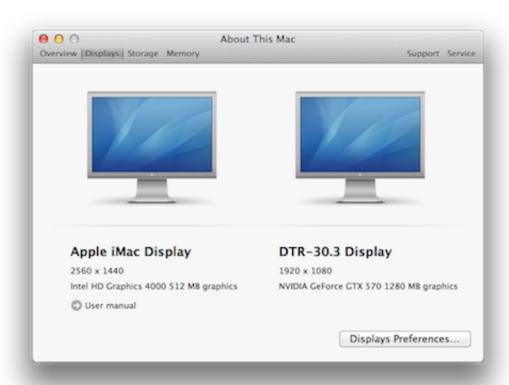
- 23. Repair permissions and cache (Ex., Disk Utility, Kext Beast, Kext Utility, Kext Wizard, etc.)
- 24. Restart

VII. Verify HDMI Audio

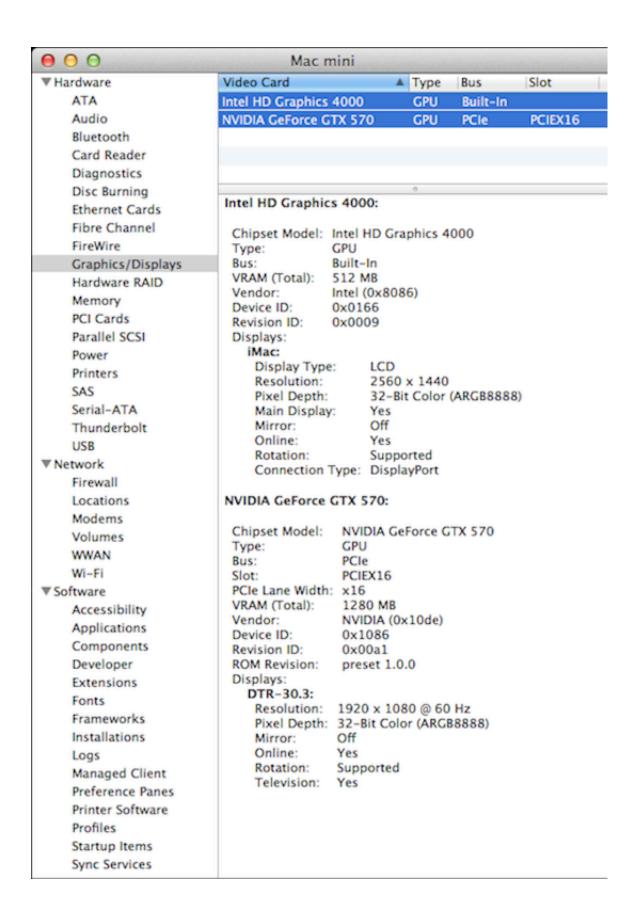
P8Z77 I Deluxe/i7-3770K/HD4000 DP audio/NVidia HDMI audio/AirPlay Mirroring 25. System Preferences/Sound/Outputs/Select HDMI











Troubleshooting

- 1. Verify HDMI device connected
- 1a. System Information/Graphics/Display/HDMI device name/Television/Yes
- 2. Verify Extra/dsdt.aml is
- 2a. .aml file
- 2b. edited
- 3. Run IOReg/Verify Devices (PEGP, GFX0, HDAU, HDEF and IGPU)
- 3a. Device (IGPU) may not be present if HD4000 Graphics is not enabled
- 3b. Device (GFX0) and Device (HDAU) may not be present if no discrete graphics
- 4. Problem Reporting/AMI dsdt/Post to Mountain Lion HDMI Audio AMI DSDT
- 4. Problem Reporting/Award dsdt/Post to Mountain Lion HDMI Audio Award DSDT
- 4a. Motherboard/BIOS version/processor/graphics/OS and version
- 4b. dsdt
- 4c. copy of IOReg

References

Mountain Lion HDMI Audio - AMI DSDT

Mountain Lion HDMI Audio - Award DSDT

https://github.com/toleda/audio hdmi hd3000

Credits:

VCH888: ALC889A, Gigabyte (Intel): now having a working front mic - Page 38 -

Sound - InsanelyMac Forum

SJ_UnderWater: Native DSDT/AML IDE & Compiler: MaciASL Open Beta

[Guide] ML-Sandy_Bridge-HD3000-6_series-hdmi_audio_dsdt_edits_v1.0