

Ozmosis 1479 Readme

Because almost everything was changed, improved, re-factored and bug-fixed since last release, here are highlighted the most important ones for the end-user:

Start-up HotKeys

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'Function'	'Shortcut'	'Notes'
Disable Ozmosis	Escape	Press at start-up, screen will flash red to indicate Ozmosis is disabled.
Reset NVRAM	Option+Command+P+R	From F12 menu, Ozmosis GUI, Shell or BIOS Setup.
Start Ozmosis GUI	Option/Home	It can be controlled with mouse only for now.
Safe Boot Mode	Shift	
Verbose Mode	Command+V	
Single-User Mode	Command+S	
32 Bit Boot Mode	3+2	Start Up In 32 Bit Mode
64 Bit Boot Mode	6+4	Start Up In 64 Bit Mode

Mac/PC Keyboard Legend

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'Mac' Key		'PC' Key
Option		Alt
Command		WinLogo

Added the ability to control graphics and audio injection using NVRAM variables, complete list of variables:

Default Settings 1F8E0C02-58A9-4E34-AE22-2B63745FA101

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'Key'	'Value'	'Note/Example'
AcpiLoaderMode	INTEGER	Control ACPI Loader
UserInterface	BOOLEAN	Display User Interface/GUI
TimeOut	INTEGER	Time-out In Seconds
DisableAtiInjection	BOOLEAN	De/activate ATI GFX device property injection
AtiFramebuffer	STRING	Name of the specific ATI framebuffer
DisableNvidiaInjection	BOOLEAN	De/activate Nvidia GFX device property injection
DisableIntelInjection	BOOLEAN	De/activate Intel GFX device property injection

```

DisableVoodooHda          || BOOLEAN || Disables loading VoodooHDA
from firmware
EnableVoodooHdaInternalSpdif || BOOLEAN || Enable/Disable onboard
S/PDIF header when using VoodooHDA from firmware
DisableBootEntriesFilter  || BOOLEAN || Disables filtering of
firmware generated boot entries
AAPL,snb_platform_id     || INTEGER ||
AAPL,ig-platform-id     || INTEGER ||
BootEntryTemplate        || STRING  || $label $guid
DarwinDiskTemplate       || STRING  || $label $platform $major
$minor $build
DarwinRecoveryDiskTemplate || STRING  || $label $platform $major
$minor $build

```

Examples:

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!! Note on VoodooHDA, it covers ONLY the onboard codec and is enabled for the moment only for ALC892/ALC1150 !!

!! For discrete graphics HDMI/DP audio AppleHDA is used instead. Those who use internal GPU (IGPU) only will !!

!! have to disable VoodooHda and use AppleHda for HDMI/DP audio !!

To Disable loading VoodooHda.kext from Firmware

```

sudo nvram 1F8E0C02-58A9-4E34-AE22-
2B63745FA101:DisableVoodooHda=%01

```

To Enable loading VoodooHda.kext from Firmware

```

sudo nvram 1F8E0C02-58A9-4E34-AE22-
2B63745FA101:DisableVoodooHda=%00

```

Changing ATI Framebuffers

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```

sudo nvram 1F8E0C02-58A9-4E34-AE22-
2B63745FA101:AtiFramebuffer=Futomaki

```

Or based on VendorSubsystemId

```

sudo nvram 1F8E0C02-58A9-4E34-AE22-
2B63745FA101:AtiFramebuffer10029440=Futomaki

```

Or based on pci addressing

```

sudo nvram 1F8E0C02-58A9-4E34-AE22-
2B63745FA101:AtiFramebuffer00.01.00=Futomaki

```

Changing AAPL,ig-platform-id

=====

```
sudo nvram 1F8E0C02-58A9-4E34-AE22-2B63745FA101:AAPL,ig-platform-  
id=0x01620005
```

Changing AcpiLoader Mode

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Add The Following Values Together For Default Acpi Loader Mode

```
ACPI_LOADER_MODE_DISABLE      0x00000000  
ACPI_LOADER_MODE_ENABLE      0x00000001  
ACPI_LOADER_MODE_DUMP        0x00000002  
ACPI_LOADER_MODE_WINDOWS     0x00000008  
ACPI_LOADER_MODE_UPDATE_LEGACY 0x00000040
```

Default Value : ACPI_LOADER_MODE_ENABLE | ACPI_LOADER_MODE_DARWIN |
ACPI_LOADER_MODE_UPDATE_LEGACY = 0x45

To Change

```
sudo nvram 1F8E0C02-58A9-4E34-AE22-2B63745FA101:AcpiLoaderMode=0x45
```

Note: They can also be controlled by using Defaults.plist placed on boot hard-drive efi system partition and path is /EFI/OZ/Defaults.plist, see bellow for example.

WARNING! Defaults.plist will override the one found in firmware and values are used only if variables are not already added. For example if you want to set BiosVersion using Defaults.plist and was already set by Defaults from Firmware, you will need to do a 4 finger NVRAM reset or delete the BiosVersion variable from shell, for the new one to be used.

Default Settings Example of Modifications on Defaults.plist

=====

```
// If AcpiLoaderMode NEEDS to be changed, change second line, put  
desired value, then add both line in Defaults.plist
```

```
<key>AcpiLoaderMode</key>  
<integer>0x45</integer>
```

```
// If UserInterface NEEDS to be enabled on every boot, change second  
line and set to true, then add both line in Defaults.plist
```

```
<key>UserInterface</key>  
<false/>
```

```
// If Timeout NEEDS to be changed, change second line and put desired  
value in seconds, then add both line in Defaults.plist
```

```
<key>Timeout</key>  
<integer>5</integer>
```

```
// If DisableAtiInjection NEEDS to be enabled, change second line  
bellow and set to true, then add both line in Defaults.plist
```

```
<key>DisableAtiInjection</key>
<false/>

// If AtiFramebuffer NEEDS to be changed, modify second line bellow and
set to correct one, then add both line in Defaults.plist
<key>AtiFramebuffer</key>
<string>ReplaceMe</string>
!! WARNING DisableAtiInjection needs to be set to false to function !!

// If DisableNvidaInjection NEEDS to be enabled, change second line
bellow and set to true, then add both line in Defaults.plist
<key>DisableNvidaInjection</key>
<false/>

// If DisableIntelInjection NEEDS to be enabled, change second line
bellow and set to true, then add both line in Defaults.plist
<key>DisableIntelInjection</key>
<false/>

// If AAPL,snb_platform_id NEEDS to be changed, change second line
bellow and set to correct one, then add both line in Defaults.plist
<key>AAPL,snb_platform_id</key>
<integer>0x00030010</integer>
!! WARNING DisableIntelInjection needs to be set to false to function
!!

// If AAPL,ig-platform-id NEEDS to be changed, modify second line
bellow and set to correct one, then add both line in Defaults.plist
<key>AAPL,ig-platform-id</key>
<integer>0x0166000A</integer>
!! WARNING DisableIntelInjection needs to be set to false to function
!!

// If DisableVoodooHda NEEDS to be enabled, change second line bellow
and set to true, then add both line in Defaults.plist
<key>DisableVoodooHda</key>
<false/>

// If EnableVoodooHdaInternalSpdif NEEDS to be enabled, change second
line bellow and set to true, then add both line in Defaults.plist
<key>EnableVoodooHdaInternalSpdif</key>
<false/>
!! WARNING DisableVoodooHda needs to be set to false to function !!

// If DisableBootEntriesFilter NEEDS to be enabled, change second line
bellow and set to true, then add both line in Defaults.plist
<key>DisableBootEntriesFilter</key>
<false/>
```