



BIOS Update Release Notes

PRODUCTS: DX58SO (Standard BIOS)

BIOS Version 5600 - SOX5810J.86A.5600.2013.0729.2250

About This Release:

- Date: July 31, 2013
- SATA RAID Option ROM: 11.1.0.1413
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 089)

New Fixes/Features:

- Updated processor support.
- Improved compatibility with the latest video cards.

BIOS Version 5599 - SOX5810J.86A.5599.2012.0529.2218

About This Release:

- Date: May 29, 2012
- SATA RAID Option ROM: 11.1.0.1413
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 089)

New Fixes/Features:

- Updated processor support.
- Updated ICH RAID Option ROM to version 11.1.0.1413.
- Fixed issue with POST slowness with some USB card readers attached to the front panel USB ports.
- Fixed issue where blue screen error occurs during Windows* installation with Intel Quad-Port ET/ET2 NIC card installed.
- Fixed ACPI _PSD error when running Windows 7 "POWERCFG -ENERGY" command.
- Fixed issue with slow transfer speeds using a test card in a PCH x1 slot.
- Improved ICH PCI Express and EHCI performance with deep C-States enabled.

BIOS Version 5561 - SOX5810J.86A.5561.2011.0516.2023

About This Release:

- May 16, 2011
- SATA RAID Option ROM: 10.1.0.1008
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 089)

New Fixes/Features:

*Other names and brands may be claimed as the property of others.

- Updated processor support.
- Updated the AHCI Option ROM Version ICBO SRC 01-06-2011.
- Fixed issue where fans run at full speed coming out of S3/S4/S5.

BIOS Version 5559 - SOX5810J.86A.5559.2011.0405.2144

About This Release:

- April 5, 2011
- SATA RAID Option ROM: 10.1.0.1008
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 089)

New Fixes/Features:

- Fixed issue where SATA drives connected to ICH10 SATA ports may not be detected in the operating system.
- Modified the microcode update message displayed during flash update.
- Fixed long delay when booting FreeDOS* with two drives attached to Marvell* 6121 controller.

BIOS Version 5529 - SOX5810J.86A.5529.2010.1214.2317

About This Release:

- December 15, 2010
- SATA RAID Option ROM: 10.1.0.1008
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 089)

New Fixes/Features:

- Updated ICH RAID Option ROM to revision 10.1.0.1008.
- Updated LAN PXE ROM to revision 1.3.65.
- Added codes to support error beep and front LED blink feature.
- Added codes to check firmware version to prevent BIOS recovery from an incorrect BIOS file.
- Fixed issue where the splash shows three times during POST when burning with a clean BIOS ROM file.

BIOS Version 5506 - SOX5810J.86A.5506.2010.1109.0004

About This Release:

- November 09, 2010
- SATA RAID Option ROM: 10.0.0.1046
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.51
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Updated ICH RAID Option ROM to revision 10.0.0.1046.
- Updated processor support.
- Added support for new SPI Flash Part.
- Fixed issue where enabling UEFI causes all USB ports to stop working.

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- Fixed issue where memory timings, DDR Multiplier and Uncore Multiplier are changed to non-default values after triggering watchdog timer with Intel® Desktop Control Center 5.5.0.46.
- Fixed issue in Intel® Desktop Utilities (IDU) where IDU only logged one warning message after stopping multiple fans in XTU.
- Fixed issues for Setup Compliance.
- Fixed issue where certain processors do not boot.

BIOS Version 5456 - SOX5810J.86A.5456.2010.0830.0013

About This Release:

- August 30, 2010
- SATA RAID Option ROM: 9.6.0.1014
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.51
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Updated ICH RAID Option ROM to revision 9.6.0.1014.
- Updated processor support.
- Fixed issue where LAN has no connection after resuming from S3.
- Fixed display issue for processor cache information.

BIOS Version 5417 - SOX5810J.86A.5417.2010.0727.1948

About This Release:

- July 27, 2010
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.51
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed issue where some fans stop working when the system resumes from S3.
- Fixed issue with Intel® Desktop Control Center where the PCI Express and PCI Bus Frequency always shows the default value after applying any PCIE value.

BIOS Version 5390 - SOX5810J.86A.5390.2010.0614.1053

About This Release:

- June 14, 2010
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.51
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed issue with watchdog timeout in operating system not setting defaults.
- Fixed error in the table definition for continuous entries for BIOS setup questions that use a Numeric opcode.
- Fixed issue where some TPM PCRs were not measured correctly.

- Added BIOS workaround for POST hang with certain PCI graphics cards installed in the system.
- Fixed issue where system fails to boot with certain graphics installed.
- Change timing for when the XTU variables are initialized.
- Watchdog Update: reduced complexity and improved XTU WD handling.
- Improved watchdog timer response to failing host clock settings.
- Fixed issue where system hangs or reboots with multiple PCI Express graphics cards in the system.

BIOS Version 5314 - SOX5810J.86A.5314.2010.0511.1115

About This Release:

- May 11, 2010
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.51
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added ECC Support.
- Fixed issue where watchdog timeout in operating system does not set defaults.
- Fixed system hang issue for XMP 2400.
- Fixed issue where boot order was not synchronized in Intel® Integrator Assistant when boot order is hidden.

BIOS Version 5200 - SOX5810J.86A.5200.2010.0414.1420

About This Release:

- April 14, 2010
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.51
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed issue where watchdog timeout in operating system is not setting defaults.
- Fixed issue where operating system fails to resume from hibernation when user enters BIOS Setup during POST.
- Fixed issue where setting the Host Clock to 133 (default of 135) would hang the system.
- Added check to only display logo that is less than or equal to supported resolution 1024x768.
- Fixed issue where UEFI bootable devices are not recognized when AHCI/RAID is enabled.
- Added workaround for issue where system would hang just before INT19 when there is a large amount of USB traffic.
- Fixed issue where USB keyboard/mouse is not detected when UEFI boot is enabled.
- Added support allowing tRFC to be set to 140.
- Fixed setup display issue with 2.25 TB hard disk.
- Fixed issue where the Intel® Integrator Toolkit Map file contains features not supported on the board.

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- Fixed Performance Status display with certain processors showing wrong multipliers.
- Fixed issue where string in BIOS does not match board silk screening (Processor vs CPU).
- Updated processor support.

BIOS Version 5112 - SOX5810J.86A.5112.2010.0316.1030

About This Release:

- March 16, 2010
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.51
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed system hang issue when programming host clock to 133.
- Improved WatchDog handling.
- Resolved issue where ITK Map file contains features not supported on the board.
- Removed display of POST code 0x70 on SMM entry.
- Updated PXE UNDI to latest version 1.3.51.

BIOS Version 5020 - SOX5810J.86A.5020.2010.0224.0938

About This Release:

- February 24, 2010
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.24
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added support for Intel's 6-core desktop processor, codenamed 'Gulftown'.
- Fixed watchdog timer and host clock display issues for XTU2.
- Fixed issue that was causing IFlash and Express BIOS Update to fail on subsequent flash updates.
- Reduced pre-video boot time by about 7 seconds.
- Added support to check the IOH stepping and if it is a B2 or earlier then set "QPI Power Management" default setting to disabled and if it is a B3 or later then set the default to enabled.
- Fixed setup option default setting for CPU C-States to be enabled and IMON to be disabled.
- Fixed issue with watchdog timer when running in the operating system and changing from one processor to another.
- Fixed XMP related issues:
 - When an XMP profile was selected the host clock was unchangeable.
 - When selecting Automatic mode the Uncore Multiplier was being set to 22 instead of the proper system default.
 - When selecting Manual mode the minimum supported ratio between Memory Ratio and the Uncore Multiplier will be used based on the processor installed.

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- Fixed issue where the PCIe Compliance bit was being set incorrectly causing Secondary Boot Request to cause some cards to fail to train correctly.
- Set VT to be enabled by default.
- Fixed issue preventing greater than 160 for the Host Clock.

BIOS Version 4598 - SOX5810J.86A.4598.2009.1211.1321

About This Release:

- December 11, 2009
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.24
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added XTU 2.0 support.
- Fixed F9 default value for TDC, TDP, and Turbo Ratio.
- Fixed watchdog timer and host clock display issues for XTU2.
- Fixed a setup display issue for 5-Core Ratio Limit.
- Fixed a display issue with the Turbo Boost Technology in setup when a processor is installed that does not have 4 cores.
- Updated processor support.

BIOS Version 4405 - SOX5810J.86A.4405.2009.1020.1419

About This Release:

- October 20, 2009
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.24
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Updated processor support.
- Enabled the selection of Video Device according to the Primary Video Adapter setup option.
- Expanded the default size of the NVS memory allocation.
- Blocked the on-board LAN PXE dispatch when on-board LAN is disabled.
- Fixed issue where the default video device was not set correctly if two video cards of same vendor and device id was present in system.
- Fixed issue where certain SATA RAID controller failed to boot according to the boot order.
- Fixed issue where system hangs at POST code 0xBA with two SATA optical drives attached and certain media in one drive.
- Fixed issue where certain SATA RAID controller failed to resume from S3.
- Added feature to block compressed BMP files from use as a custom logo with Intel® Integrator Toolkit.
- Enabled BIOS Setup to always be reset even if iFlash2 is interrupted when /f flag is set.

BIOS Version 4196

About This Release:

- July 16, 2009
- SOX5810J.86A.4196.2009.0715.1958
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.24
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Updated memory error beep code, according to Speaker beep codes and FP LED blink codes Specifications Document revision 1.0.
- Fixed issue where SMBIOS System Slot structures mismatch for PCIe Express Gen2 slots.
- Added XMP support using BCLK override.
- Updated Express BIOS Update to the latest version.
- Fixed BIOS setup page cosmetic issues.
- Fixed issue where system hangs if all bootable devices are disabled in BIOS Setup and no bootable devices are attached.
- Added updates to improve security.

BIOS Version 4158

About This Release:

- June 23, 2009
- SOX5810J.86A.4158.2009.0622.2125
- SATA RAID Option ROM: 8.9.0.1023
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.24
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Updated ICH RAID Option ROM to revision 8.9.0.1023.
- Fixed issue where "Memory Size Decrease" event log does not work.
- Fixed issue where system hangs when loading option ROM with certain SCSI card installed and eSATA disabled.
- Added the BIOS downgrade update password security check.
- Removed no reboot BIOS update support.
- Added check for Supervisor/User password before allowing BIOS update.
- Fixed issue where INT 15h E820h Test failed.
- Changed BIOS Setup default for HPET to "Enabled".
- Fixed issue where newly-set password becomes invalid when loading defaults with "F9" and then reboot.
- Updated to skip Marvell* 6212 option ROM if there is no drive connected at Marvell 6212.
- Updated SMBIOS information for memory DDR3 type and Intel Core i7 processor.
- Fixed POST0xA7 hang.
- Added workaround for issue where system hangs due to LAN device is not accessible under certain Performance variable changes.

*Other names and brands may be claimed as the property of others.

BIOS Version 4121

About This Release:

- May 28, 2009
- SOX5810J.86A.4121.2009.0528.0027
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.7.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added support for AA# E68555-503.
- Set Slot Power to 300W for PCI Express x16 slot.
- Updated to MRC 1.0 and QPI RC 1.0.
- Updated Marvell* 6121 legacy mode (IDE) option ROM to 1.1.0.L72.
- Updated Secure Software manufacturing mode implementation.
- Enhanced F7 BIOS Flash update.
- Fixed issue where Windows* show 4 logical processors only after flashing with BIOS ROM file.
- Fixed issue where system hangs at POST 0xEB using certain PCI Express RAID controller card.

BIOS Version 4014

About This Release:

- May 8, 2009
- SOX5810J.86A.4014.2009.0507.1930
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.7.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed issue where system hangs when loading option ROM with SCSI card installed and eSATA disabled.
- Fixed issue where ICH SATA RAID compliance test failed.
- Fixed issue where Intel® Desktop Control Center fails to launch after HCF value is applied to 136MHz or above.
- Fixed issue where Choices of value in PCI Express Frequency drop down box does not match with F2 BIOS PCI Express.
- Changed display string for Intel 64 Architecture support.
- Updated processor support.

BIOS Version 3828

About This Release:

- April 21, 2009

*Other names and brands may be claimed as the property of others.

- SOX5810J.86A.3828.2009.0420.1948
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.7.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Updated processor support.
- Fixed issue where user pressed 'Y' key cannot enter BIOS setup during POST overclocking failure message, if user has selected French language.
- Fixed issue where PCI BIOS INT1A calls would return incorrect values for PCI Express MMIO registers.
- Fixed issue where user setup is reset to F9 default after entering Maintenance mode.
- Fixed Intel® Integrator Assistant update failure.
- Fixed issue where XMP profile is not available with certain processors.
- Implemented Fault Tolerant Firmware ID solution.
- Fixed unexpected long S3 resume time.
- Fixed interrupt storm caused by USB HC's.
- Fixed system unable to boot with x4 2GB DIMMs.
- Updated Secure Software Manufacturing mode implementation.
- Added NTFS support to F7 Flash update.
- Fixed issue where display between BIOS and XTU for DIMM memory speed is different.

BIOS Version 3504

About This Release:

- February 18, 2009
- SOX5810J.86A.3504.2009.0218.0058
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.7.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed issue causing ITK custom BIOS to reset late in POST.
- Added BIOS Setup performance improvement.
- Fixed a problem where the system would hang if the top swap bit got set and system did a reset.
- Added BIOS workaround for system hang during POST when certain RAID adapters are installed in the system. Note: The eSATA Port option on the Advanced->Peripheral Configuration menu may need to be set to DISABLE in the BIOS.

- Fixed intermittent hang at POST code 0x5A with certain Blu-Ray optical drives attached to the system.

Known Errata:

- None.

BIOS Version 3435

About This Release:

- February 11, 2009
- SOX5810J.86A.3435.2009.0210.2311
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.7.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added nVidia SLI support.
- Changed BIOS setup CPU C-state default to disable.

Known Errata:

- User should load F9 BIOS Default after performing BIOS update to S03044P or previous version.

BIOS Version 3301

About This Release:

- January 28, 2009
- SOX5810J.86A.3301.2009.0128.1132
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.7.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Enabled Secure Software Manufacturing mode.
- Updated ICH10 Raid Option ROM to Production Version 8.7.0.1007.
- Fixed issue where certain RAID cards did not work.
- Fixed issue where certain Linux* USB thumb drives are not bootable.
- Added ACPI OS support for PCI Express Enhanced Capabilities.
- Added programming of PCI Bridge Subsystem Vendor Capability Identification Register for ICH PCI Express Root Ports.
- Fixed issue where Windows* Vista* SP1 fails to resume from hibernate when hot-plugging eSATA drives into the Marvell* 6121 controller.
- Fixed non-responsive USB when system has a configuration with several large option ROMs loaded.

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- Added support for Watchdog timer after post.

Known Errata:

- User should load BIOS Defaults (F9) after performing BIOS update to version 3044 or any previous version.

BIOS Version 3044**About This Release:**

- December 19, 2008
- SOX5810J.86A. 3044.2008.1218.1457
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.6.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed issue where user was unable to enter certain RAID Controller card Setup.
- Improved S3 resume time.
- Fixed issue where system hangs if USB mouse/keyboard is interrupted when entering S3.
- Fixed issue where boot order memory corruption occurs when both ICH RAID and Marvell* 6121 RAID are enabled.
- Added support for ignoring EFI El-Torito CD/DVD partition types.
- Fixed issue where PCI BIOS INT1A interface function B101 does not return the correct maximum PCI bus number.
- Added support in boot block to read EFI variables from VPD backup region if the system had reset in the middle of VPD reclaim.
- Fixed POST code 0x5A hang with certain ATAPI drives.
- Fixed issue where EFI boot images are not seen on IDE CD/DVD devices.
- Added help strings in BIOS setup.
- Fixed issue where audio verb table is not restored after S3 resume.
- Fixed F7 hotkey bad response issue.
- Updated the display string after BIOS update.
- Added BIOS workaround for WHQL PCIHCT "Assertion A6327544-4C4C-48CA-96C9-82C70F3DE6AA: FAILED. Bit 0 (Receiver Error Status) in the Correctable Error Status register (offset 10h) in the Advanced Error Reporting Capability table must be clearable.
- Enhanced overclocking capability using Host Clock override.
- Fixed issue where system boots up from G3 when "Wake on LAN from S5" = "Power On" and "After Power Failure" = "Stay Off".
- Fixed issue where "Description" field for SMBIOS Type 10 (On Board Devices Information) structure for On-board LAN is incorrect when On-board LAN is disabled.

BIOS Version 2786**About This Release:**

*Other names and brands may be claimed as the property of others.

- November 12, 2008
- SOX5810J.86A.2786.2008.1112.1500
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.6.0.1007
ICH10R/DO.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed automatic mode for DDR Multiplier setting.
- Added flag to disable Secure Software Manufacturing mode.
- Updated Intel® Matrix Storage Manager option ROM to v8.6.0.1007.
- Fixed issues where memory reference voltage is incorrect at default.
- Fixed issue where memory voltage is at 1.50V in auto mode.
- Fixed a potential system hang issue.
- Fixed a potential VPD corruption issue.
- Added support for DDR3-1866.
- Fixed issue where language selection and language display are not matched after BIOS recovery.
- Added support for additional XMP timings.
- Updated XMP speed detection.
- Fixed the sort order for the Memory Multiplier option.
- Enabled MRC Dimm Vref training.
- Fixed BIOS setup reset to default values when entering Maintenance mode.
- Added support to load Command Rate from the XMP profile.
- Fixed POST hang 0x5A when certain DVD drive is attached.

BIOS Version 2747

About This Release:

- November 5, 2008
- SOX5810J.86A.2747.2008.1105.0847
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.5.0.1030
ICH10R.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Improved C-State residency during bus mastering except in the case of ICH SATA bus mastering.
- Changed BIOS setup string "Pause POST if Chassis Intrusion" to "Chassis Intrusion".
- Fixed issue where XMP profile can be not properly detected.
- Fixed issue where QPI voltage change in Intel® Desktop Control Center (IDCC) does not set Performance Memory Profile to 'Manual'.

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- Fixed error in IDCC with display of CPU Voltages in XTU.
- Added control in IDCC for Dynamic CPU Voltage Offset.
- Updated support for changeable QPI data rate on production non-XE CPU.
- Updated the code in IDCC to allow all memory multipliers to be passed to XTU with Non-XE production parts.
- Added support for XMP 1.2 Profiles.
- Fixed issue where certain video card hangs with PCIe ASPM L1 enabled.
- Fixed issue where user was unable to enter Intel SCRU43E SCSI RAID SETUP if another bootable device was in the system.
- Fixed issue where failure happens during Intel® Integrator Toolkit (ITK) token extract operation.
- Fixed issue where invalid combination of "Uncore Multiplier" and "DDR Multiplier" is passed from IDCC.
- Fixed thermal range for IOH thermal sensor in IDCC.
- Fixed issue that could cause false indication that the watchdog timer fired.
- Fixed issue where IED buffer is not cleared.
- Fixed issue where WDT-fired message is shown after changing Host Clock Frequency from 136MHz (and above) to 135MHz (and below).
- Updated BIOS support for On Semiconductor Heceta6P (ADI* ADT7490).
- Updated host clock real-time device creation based on SBPLL programming.
- QPI Voltage changes now require memory mode update.
- Fixed issue where XMP profile reported invalid value for tWRmin.
- Removed ASSERT_CKE from the ResetFIFOs function to prevent possible tREFI violation on the S3 resume path.
- Disabled "Fast MRC" mode in warm boot when there is change in "QPI / Uncore Voltage".

BIOS Version 2483

About This Release:

- October 14, 2008
- SOX5810J.86A.2483.2008.1014.1606
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.5.0.1030 ICH10R.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Performance Status Display: Fixed hang when Setup UQI was not found.
- Updated UQI for Performance Status Display per new token UQI.
- Fixed invalid CMOS checksum error after Express BIOS Update to BIOS version 2394.
- Improved SATA performance under Windows* with C-States enabled.
- Updated QPI RC to revision 0.90RC8.
- Updated MRC to revision 0.90RC9.

*Other names and brands may be claimed as the property of others.

- Enabled F7 flash update and latest USB stack support.
- Fixed issue where QPI scrambling is not enabled.
- Added check for Intel® Desktop Control Center (IDCC) to determine if memory mode should be set to automatic.
- Fixed memory voltage default programming when watchdog timer fires.
- Watchdog: Use instaflush as an option for forced reboots.
- Updated processor support.
- Updated information on BIOS Setup Main Page.
- Added Secure Software manufacturing mode support.
- Fixed issue where intermittent memory beep code errors occur when overclocking and WDT is enabled.
- Removed additional reset through instaflush after Host Clock Frequency Override is changed.
- Removed non-productized BIOS setup items.
- Fixed possible hang when changing Host Clock Frequency Override from Automatic to Manual.
- Reduced Watchdog timer timeout constant for MRC.
- Updated BIOS setup items and help strings.
- Updated UQI for Intel® Desktop Control Center (IDCC) per new token UQI.
- For IDCC, fixed QPI Multiplier displayed in auto mode.
- For IDCC, report dynamic CPU voltage offset for non-XE processor.
- For IDCC, fixed Uncore Ratio in Auto Memory Mode.
- Fixed issue where invalid default is shown for certain processors.
- Fixed proposed memory speed in BIOS setup Performance page.

BIOS Version 2394

About This Release:

- October 1, 2008
- SOX5810J.86A.2394.2008.1001.0911
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.5.0.1030 ICH10R.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added performance status display to BIOS setup.
- Fixed issue where QPI data rate changes to 6.4GT/s when Watchdog timer fires and power down does not occur before next boot up.
- Disabled "Fast MRC" mode in warm boot when there is any change in memory-related BIOS setup item.
- Fixed issue where POST 0xFF hang after changing host clock and loading defaults.
- Fixed incorrect Dynamic CPU Voltage Offset entry.
- Updated support for providing board specific sensor layout information to OS applications dynamically.

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- Fixed issue where Processor Speed would show 0.0 GHz on Main page of BIOS Setup when loading F9 defaults from within Processor Override menu.
- Fixed issue where Core SMI handler is preventing resets for non-hardware hangs.
- Fixed Windows* boot option issue.
- Updated Turbo Mode string to official name "Intel® Turbo Boost Technology".
- Set Memory Scrambling to enable as default.
- Updated sensor usage to VR instead of Memory.
- Fixed issue where Intel® Desktop Control Center (IDCC) would not load after thermal settings from Intel® Integrator Toolkit (ITK) were installed
- Updated QPI RC to revision 0.90RC7.
- Fixed issue where system cannot boot with memory setting from "Automatic" mode in "Manual" mode.
- Fixed issue where watchdog timer does not catch UnCore Multiplier hangs.
- Fixed issue where PCIe Clock is not at 100MHz when set to default.
- Updated processor support.
- Update MRC to revision 0.90RC8.
- Fixed USB recovery failure when SATA DVD-ROM is attached.

BIOS Version 2127

About This Release:

- September 14, 2008
- SOX5810J.86A.2127.2008.0914.1638
- SATA RAID info:
Intel(R) RAID for SATA - ICH10: Raid Option ROM 8.5.0.1030 ICH10R.
- SATA AHCI info:
Serial ATA AHCI BIOS, Version ICBO src 06-17-2008
- PXE info:
Intel(R) Boot Agent PXE GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Initial production BIOS release

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