DATE: July 28, 2005
PRODUCT: D945GTP/D945GNT/D945GCZ Standard BIOS

Build 1788C

About This Release:
- July 28 2005
- NT94510J.86A.1788.2005.0728.1510
- VBIOS Build Number: 1235 PC 14.12 07/18/2005 09:59:14
- SATA RAID info:
    - Intel(R) RAID for SATA - v5.1.0.1022
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28
- Memory reference code equivalent to MRC 1.00.

New Fixes/Features:
- Fixed Key Help & Pop-up message strings to reflect current language in Setup.
- Fixed "Exit Discard Changes" functionality in BIOS SETUP.
- Corrected functionality of the "USB ZIP Emulation Type" BIOS SETUP question in Manufacturing Mode.
- Enabled future Flashing of Intel® Active Management Technology code for boards that support Intel® Active Management Technology.
- Updated Video BIOS to Build 1235.
- Updated the ICH7 RAID option ROM to version Intel(R) RAID for SATA - v5.1.0.1022.

Known Errata:
- BIOS recovery from CD is temporarily removed.

Notes to Validation:

Build 1783C

About This Release:
- July 27 2005
- NT94510J.86A.1783.2005.0727.1533
- VBIOS Build Number: 1229 PC 14.12 06/06/2005 11:51:46
- SATA RAID info:
    - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28
- Memory reference code equivalent to MRC 1.00.

New Fixes/Features:
- Resolved issue where adding a splash screen increases BIO size 1.9M regardless of the splash image size.
- Fixed issue where 16-bit PCMCIA cards were not detected correctly in some operating systems.
- Move the USB ZIP question to BOOT PAGE as it applies to ATA/ATAPI ZIP as well (changes the question name as well).

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

- Fixed long delay in POST with some zip drives attached as a single master drive in the system.
- Fixed issue where some Keyboard-Video-Mouse switch boxes would reset just before system boot.
- Fixed intermittent system hang or long delay just before boot to USB device.
- Fixed issue where 16-bit PCMCIA cards were not detected correctly in Windows.
- Fixed USB boot issue to match "Boot to USB" setup question.
- Fixed USB Floppy not bootable when Legacy Floppy installed without a media.
- Fixed SMBIOS Type10 Onboard Video Device status reporting
- Added workaround to fix the LAN drop issue.
- Fixed Intel® Express BIOS Update fail to reboot but shutdown system if Front-panel Audio attached.
- Initial Glenwood-DG MRC updates.
- Fixed priority issue in Advance Boot Mode when Legacy Floppy is installed without a media
- Allow system to wake from S4 via PCI/PCIe devices when ACPI Suspend State set to S1
- Added feature to Enable/Disable Maximum CPUID Value Limit.
- Modified flash interface.
- Added BTX form factor support for Intel® Desktop Control Center
- Added dynamic support for COM2 based on board features.

Known Errata:
- BIOS recovery from CD is temporarily removed.

Notes to Validation:

Build 1616C

About This Release:
- July 08 2005
- NT94510J.86A.1616.2005.0708.1742
- VBIOS Build Number: 1229 PC 14.12 06/06/2005 11:51:46
- Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28
- Memory reference code equivalent to MRC 1.00.

New Fixes/Features:
- Fixed an issue of no Audio after S3 resume.
- Added support for issuing ATA Security Freeze Lock to IDE devices on resume from S3.

Known Errata:
- BIOS recovery from CD is temporarily removed.

Build 1590C

About This Release:
- July 07 2005
- NT94510J.86A.1590.2005.0706.1530
- VBIOS: 1229
- SATA RAID info:
    - Intel(R) RAID for SATA - v5.0.0.1032

- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Updated processor support.
- Fixed issue with Intel AMT SOL and SATA boot.
- Fixed an issue with some types of DDR667 memory.
- Fixed a delay seen with some CD drives.
- Fixed bios so F9 key loads BIOS defaults in configuration mode.

Build 1493C

About This Release:
- June 22 2005
- NT94510J.86A.1493.2005.0622.1649
- VBIOS info: 1229
- SATA RAID info:
    - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Updated processor support.
- Fixed 10/100 LAN drop issue.
- Fixed SOL display when booting to DOS.
- Changed menu text in the aggressive settings.
- Fixed specific CD ROM detection issues.
- Fixed POST hang with x8 PCI Express SCSI card.
- Fixed several second delay in POST while performing PS/2 port-swapping.
- Changed AmtBx setup entry and messages.
- Updated to AMT BX 1.2 release.
- Fixed convert and restore flash process.
- Added S3 support for TPM.
- Fixed non-graphics card in a PEG slot issue.

Build 1348C

About This Release:
- June 09 2005
- NT94510J.86A.1348.2005.0609.1737
- VBIOS: 1224
- SATA RAID info:
    - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Resolved hang issues with a specific CPU.
- Fixed TPM enable/disable functionality.
- Fixed certain CD ROMs detection issues.
- Fixed an issue with a specific RAID card.
- All drives now receive the Security Freeze Lock command during POST.
- BIOS uses less system memory (2MB) for BIOS usage.

- Fixed boot delay issue when certain optical drives are set as stand alone masters.
- Prevents loss of AMT functionality after BIOS update.

Build 1241C

About This Release:
- June 01 2005
- NT94510J.86A.1241.2005.0601.1508
- VBIOS: 1224
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Added latest processor updates.
- Added Flex Logo & Optional Module support.
- Updated slow POST with CD-ROM fix.
- Fixed an issue of XP using PIO drive transfer mode instead of DMA.

Build 1220C

About This Release:
- May 27 2005
- NT94510J.86A.1220.2005.0527.1540
- VBIOS: 1224
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Added latest processor updates.
- Fixed long delay in POST when some CD-ROMs are attached as an IDE master device.
- Fixed issue where Microsoft* Windows was unable to enable DMA on system SATA drives.

Build 1176C

About This Release:
- May 24 2005
- NT94510J.86A.1176.2005.0524.1846
- VBIOS: 1224
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Added latest processor updates.

- Fixed a problem where PEG video devices that contain bridges do not work as the primary video device.
- Fixed slow POST when certain CD-ROMs are attached to the system.
- Fixed issue with Type 17 SMBIOS information.
- Fixed issue with incorrect SMBIOS PCI/PCIe slot information.
- Added Event Log Prompt support.
- Added display of System in Manufacturing Mode.
- Added support for writing SMBIOS data securely via EFI variables.
- Fixed errors with some memory stress tests when USB keyboard is plugged in the system.
- Fixed a benchmark hang with some PCI Express video cards.
- Added support for Cedar Mill B0 processor.
- Fixed a problem where the setup option for XD Execute Disable bit did not work correctly.
- Added setup option for SW Single Processor Mode.
- Update MBI support according to spec rev1.3.
- Fixed a problem where the setup option for XD Execute Disable bit did not work correct.
- Fixed issue where system would reboot when calling TCG INT1A functions.
- Added Master Boot Record (MBR) measurement support for TPM.

Build 1088C

About This Release:
- May 19 2005
- NT94510J.86A.1088.2005.0519.1710
- VBIOS: 1224
- SATA RAID info:
  - Intel(R) RAID for SATA – v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Added latest processor updates.
- Updated board features table.

Build 1042C

About This Release:
- May 13, 2005
- NT94510J.86A.1042.2005.0513.1523
- VBIOS: 1224
- SATA RAID info:
  - Intel(R) RAID for SATA – v5.1.0.1013
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Fixed issue where fifth BIOS drive (84h) is not accessible via INT13h in certain system configurations.

Build 0980C

About This Release:
- May 09, 2005
- NT94510J.86A.0980.2005.0509.1536
- VBIOS: 1224
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.1.0.1013
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:
- Initial production release.