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DPSD BIOS ENGINEERING
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PRODUCT: D845GLLY/D845GLAD/D845GVAD2 BIOS

P12-0032 (Production 12, build 0032)

About This Release
- February 19 2003
- LY84510A.86A.0032.P12.030219181
- Core Baseline version 01.03.00
- VBIOS build 2759
- UNDI 4.1.08

P12-0032 - February 19th, 2003
- Banner changed.
- Add latest processor update.
- Implemented Dynamic date update for Copyright.
- Fixed WHQL failure that reported "FADT RESET_REG Register Bit Width can only be 8.
- Fixed issue with password less than 7 characters.
- Add double reset during POST on Audio Chip for manufacturing testing.
- Power down the Audio CODEC before power is removed per Vendor recommendation.
- Add "A" naming suffix for Intel® Pentium® 4 Processor running
at 2.0GHz based on .13 micron manufacturing process.
- Enabled the on Screen POST code display.

P11-0029 - December 12th, 2002
- Corrected USB Configuration help text in BIOS setup menu.
- Added LBA 48 bit hard disk fix.
- Fixed issue where PS/2 mouse was non-functional after resuming from S3 in Microsoft* Windows* 98 SE and Windows ME while pressing multiple keys on the PS/2 keyboard and using the Microsoft PS/2 mouse driver.
- Fixed issue where Microsoft Windows 98SE and Windows ME will show "Device Problem" in Windows Registry if PS/2 devices are not attached.

P10-0027 - November 15th, 2002
- Updated Video BIOS to build 2759.
- Update from AMI Core 08.00.05 to 08.00.07.
- Fixed issue where system will not wake from S1 if the keystroke is hit before system enters S1 standby.
- Added MPS support.
- Fixed password is required to enter maintenance mode issue.
- Enabled 3-mode floppy support.
- Added additional processor logo support
- Fixed issue where when a Hyper-Threading Technology based processor is installed the Hyper-Threading parameter is disabled in Setup.
- Fixed issue of MTRR register failure when running HT Technology Readiness utility.
- Fixed issue of some registers not being saved and restored correctly when running HT Technology Readiness utility.
- Fixed issue where the power button doesn't work after booting.

P09-0023

- Corrected cache size detection code to properly detect Intel® Celeron® processors.
- Fixed issue where PC-DOS would not boot from an emulated CD-ROM image.

P08-0022
- Fixed issue where Windows 98SE and Windows ME will show yellow bangs in Device Manager for PS/2 devices if the OS is not installed with PS/2 devices attached.
- Fixed the issue where certain USB mouse will drop after resume from S1 under W2K.
- Fixed a problem where Fan configuration change warning message can be seen on older motherboard after updating BIOS.
- Fixed a problem where Fan configuration change warning message was not displayed when exiting Maintenance mode Setup.
- Fixed the problem where BMI runtime interface could not return the correct FAN thermal data.
- Fixed a potential Setup hang problem with Fan Configuration Setup menu.

P07-0021
- Added support for BIOS IDE detection to be more tolerant of drive configurations with slower spin-up times.
- Added the hard-disk pre-delay functionality.
- Added BMI 1.1 support.
- Added support for generation of Intel Integrator Toolkit (ITK) 2.0 BIOS map file.
- Updated video BIOS to 2686.
- Removed 3-mode floppy support.
- Fixed an issue where the Memory speed will be displayed incorrectly in Setup for Manufacturing Mode.
- Updated SMBIOS TYPE 8 connector information.
- Updated SMBIOS processor information.
- Enhanced thermal trip detection logic.
- If no "Treliable" value is available in BMI data Flash logical block, the field is populated with 0FFh (as per BMI Spec 1.09c)
- Fixed issue where chassis intruder was unable to log to event log.
- Fixed issue where viewing event log will display garbage if intruder event occurred.
- Fix issue where IOMEGA Zip* drive was not able to emulate as hard disk. Also added fix to disable hard disk emulation when the drive's jumper is configured as floppy.
- Updated Intel Boot Agent to 4.1.08.
- Updated memory reference code to 1.50.
- Added the workaround to support backward compatibility in recovery with BL010100
- BIOS..* Other names and brands may be claimed as the property of others.
- Added fix to correctly preserve register 70/74 across SMIs.
- Fixed thermal trip detection code for MFG.
- Updated to Baseline BL_01.01.01.
- Fixed issue where USB device slows to activate from standby.
- Fixed installation hang with Windows .NET* when UDMA/133 drives are attached to the system.
- Fixed issue where COM port resource being wrongly allocated.
- Fixed the issue of not booting to certain CDROM drives.
- Fixed the issues with USB Floppy boot.
- Fixed an issue where system will hang when coming out of S4 with USB mouse attached.
- Added hardware monitoring support.
- Removed Wake On Modem Ring question in BIOS setup.
- Fixed issue where Windows 2000* would reload hardware profile after entering BIOS.
- Added support for future processors.

P06-0012
- Updated to AMI core release 8.00.05.
- Added S.M.A.R.T. enable/disable option to the Advanced IDE Configuration menu for each of the IDE channels.
- Added SMBUS module updates.
- Added ASF support.
- Added Chassis Intrusion support.

- Added support for dynamic updating of SMBIOS information for onboard devices, based on the status of the hardware.
- Enabled 3Mode floppy support.
- Fixed an issue where an arbitrary data area was being overwritten by BIS DMI structure initialization.
- Fixed an issue that prevented the system from waking up from S3 using the PING command.

P05-0011
- The PS2 Keyboard and Mouse now always are enabled for wake events. The previous version of BIOS had Windows* display a Power Management Tab for the PS2 Keyboard and Mouse that were disabled by default.
- Fixed an issue where the bus numbers for devices and PCI slots sitting behind the Pci-to-Pci bridge in the ICH4 were not being saved correctly.
- Fixed issue where in some configurations, USB devices attached to a hub were not detected. BIOS would sometimes fail to detect Full speed USB devices through a USB hub when an unknown USB device (such as USB scanner) was attached to a lower number port on the same hub.
- Some previously missing string translations were added.
- Updated Video BIOS to build 2637.
- Enabled TCO_EN earlier in POST.
- Fixed an issue where a small logo field was getting scrolled off the screen with POST messages.
- Fixed an issue where the Reserved Bits were being set in the BIS SMBIOS structure.
- Added POST messages for network boot hotkey (F12).
- Fixed the issue where "Press <F4> to run setup" message was displayed after entering wrong user/supervisor password.
- Fixed an issue where system boots to the OS, while the motherboard is in Configuration
- Mode, if neither a PS2 nor a USB keyboard is attached.
- Added support to scan the User Binary code before Video initialization. This ensures that resource allocation will be provided by the BIOS for this code.
- Fixed issue where POST does not display all the installed option ROMs.

P04-0010
- Fixed issue where system would not resume from S1.

P03-0009
- Fixed an issue where boards would hang at 00h on manufacturing line.
- Fixed an issue where LS-120 drives would not work as slaves.
- Enhanced functionality of one time boot selection menu.
- Fixed an issue where system reported Type 7 SMBIOS errors.

P02-0008
- Initial Production Release

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