BIOS ENGINEERING

intel

DATE: December 12, 2003 PRODUCT: D875PBZ Standard BIOS

P18-0083 (P18, build 0083)

About This Release:

December 12, 2003 BZ87510A.86A.0083.P18.0312121502 UNDI 4.1.10 LAN UNDI 1.2.10

New Fixes/Features:

- Fixed issue where system would hang at 03h when a FSB400 CPU is used on an ICS952638AF based board.
- Fixed issue where spread turns off when burn-in mode is set to -1% on an ICS952618BF based board.
- Fixed issue where PCI clocks will not turn on if PCI card was plugged in while the board was in S5 state on an ICS952638AF based board.
- Fixed an issue with an OEM manufacturing tool reporting a CMOS checksum error.
- Fixed issue where the Hyper-Threading option does not appear in Intel(r) Integrator Toolkit.
- Added support for Memory Voltage BIOS SETUP question in IDCC.
- Added support for center spread clock mode detection in IDCC.

P17-0081 (P17, build 0081)

About This Release:

November 24, 2003 BZ87510A.86A.0081.P17.0311241511 New database, flash 5 and flex BIOS UNDI 4.1.10 Tanacross UNDI 1.2.10

- BiM ETK Version updated to 2.1
- Fix an issue with Burn-in mode for -300 level boards.
- Fixed issue where entering the "Hardware Monitor screen" in BIOS setup will cause system hang if a certain 3rd party IDE Drive controller card is in PCI slot 3 and two IDE drives are attached to the controller.
- Fixed issue where system is unable to PXE boot if a particular 3rd party

IDE PCI card is installed.

P16-0081 (P16, build 0076)

About This Release:

October 24, 2003 BZ87510A.86A.0076.P16.0310241132 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

New Fixes/Features:

• Additional IDCC support included.

P15-0074 (P15, build 0074)

About This Release:

October 23, 2003 BZ87510A.86A.0074.P15.0310230946 New database, flash 5 and flex BIOS UNDI 4.1.10 Tanacross UNDI 1.2.10

New Fixes/Features:

- Added support for IDCC (Intel Desktop Control Center)
- Added support for new unreleased processors
- Fixed an issue where system would not boot to PXE when a third party 256 MB AGP Card is present
- Fix ECC initialization issue
- Fixed issue where system would not log single or multi-bit ECC errors.
- Added new advanced memory configuration page.
- Fixed issue where PCI clocks do not turn off when no cards installed
- Updated thermal zone trip points.
- Updated system configuration data
- Fix Japanese languages translations.
- Fixed issue where system would POST hang at AFh & 13h intermittently during AC power cycling.
- Added a workaround to boot from OS recovery CD.
- Fixed issue where system would hang at D4h when user enabled the memory timing override (user defined mode)

P14-0068 (P14, build 0068)

About This Release:

September 16, 2003

BZ87510A.86A.0068.P14.0309162312 Flash 5 and flex BIOS UNDI 4.1.10 Tanacross UNDI 1.2.10

New Fixes/Features:

- Fixed the Blue Screen issue which was seen after a certain amount of OS resets.
- Added enhancement to flash update algorithm.
- Added IDCC fan information.
- Changed display of DDR333 to DDR320 when used with a 800MHz FSB processor.
- Fixed a system hang problem during POST with a Flash USB Flash card reader/writer.
- Fixed an issue where Power Button override when going into S3 caused system to hang on resume.
- Added IDCC Memory Extended Configuration information
- Updated 875 Memory reference code to version 1.4.
- Reclaimed flash space by removing un-needed option ROM code.

P12-0047 (P12, build 0047)

About This Release:

August 21, 2003 BZ87510A.86A.0047.P12.0308210130 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

New Fixes/Features:

- Added support to boot using future processors.
- Fixed issue where if IFLASH was performed right after VPD area update will cause system to hangs at POST code 55h.
- Fix issue where system will POST hang at 00h after setting manufacturing jumper due to VID been cleared to 00h.

P11-0045 (P11, build 0045)

About This Release:

August 19, 2003 BZ87510A.86A.0045.P11.0308191517 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

- Added initial Desktop Control Center support.
- Added Flash5 Phase 2 support.
- Moved BBS area from VPD block to backup block.

- Fixed issue where the PCI slot information silk screen on the board does not match with what is loaded into SMBIOS table.
- Added a work-around for IRQ sharing issue with a hard drive imaging application when in SATA native mode.
- Compressed the hex image to free-up boot block space. Moved Setup Client module to boot block to free-up space for main BIOS.
- Added functionality to flash update the BIOS in runtime using SMI without having to do a reboot to unlock the blocks. Both the methods are now supported and can be invoked from iFlash.
- Fixed two potential issues in boot block code.

P10-0043 (P10, build 0043)

About This Release:

August 15, 2003 BZ87510A.86A.0043.P10.0308151001 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

New Fixes/Features:

- Fixed a system hang issue during POST with a Flash USB Flash card reader/writer.
- Added support to switch the display mode from the Logo to the BIOS text if an Option ROM for a PCI Mass Storage device is being executed.

P09-0041 (P09, build 0041)

About This Release:

July 22, 2003 BZ87510A.86A.0041.P09.0307221002 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

- Added the Intel(R) ICH5R RAID Option ROM version v3.5.0.2568.
- Changed the note, displayed under Fan Control Configuration, to "The new settings will not take effect until system is completely shut down".
- Enhanced flash update algorithm to fix post code E9 hang issue.
- Intel® 875PE MCH BIOS Specification Update v1.4 & Memory Initialization Reference Code v1.3.
- Updated System Configuration Data
- Added error handling, Flash5 failed message during POST, lockdown the blocks
- Updated NWD F29 system configuration data
- Fixed display burn-in mode warning message during POST.

About This Release:

June 24, 2003 BZ87510A.86A.0038.P08.0306241736 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

New Fixes/Features:

- Added the ability to enable center spread-spectrum host clocking via BIOS setup option.
- Fixed issue where Event log failed to clear on a reboot using a custom CMOS utility.
- Addressed an issue where a synthetic stress utility froze due to an compatibility issue with USB legacy support.

P07-0036 (P07, build 0036)

About This Release:

June 17, 2003 BZ87510A.86A.0036.P07.0306170845 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

- Display "Processor Fan Speed", "Front Fan Speed", and "Rear Fan Speed" under "Hardware Monitoring" in the "Advanced" screen.
- Made the "RAID Enable/Disable" option a sub selection of the "Enhanced" SATA RAID selection. This means that RAID will only function in Enhanced Mode.
- Added ASF support for LAN
- Added faster ECC initialization support to shorten system POST time.
- Fixed the issue where ICH5 century byte makes system hang at post code 20
- Fixed the issue where boot block failed to recovery when BIOS flash update failed
- Added POST error message on a Flash update failure
- Added table for manual IRQ selection from CMOS setup
- Lowered power consumption of LAN when system is in S5.
- Added text display capability on JPEG/BMP.
- Added UserBinary support.
- Fixed an issue that caused a delay when booting to a floppy after attempting to boot to a non-bootable CD with two SATA drives attached.
- Fixed issue where Windows XP legacy-to-native IDE runtime mode switching was not functioning.
- Fixed issue where Event log fails to clear on a reboot using CMOS utility tool NCMOS.EXE.

P06-0030 (P06, build 0030)

About This Release:

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May 16, 2003
BZ87510A.86A.0030.P06.0305161505
New database, flash 5 and flex BIOS
UNDI 4.1.10
LAN UNDI 1.2.10
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New Fixes/Features:

- Fixed compatibility issues with some DDR-400 memory.
- Fixed boot block fault tolerance test failure.
- Fixed multi-bit ECC errors not being logged.
- Fixed hardware monitoring such the rear fan is monitored instead of the VREG fan.
- Improved audible progress tones to indicate BIOS update progress.
- Improved ECC options such that ECC Event logging defaults to disabled when non-ECC memory is installed and automatically enable ECC event logging when ECC memory is installed.
- Fix typo so "MHz" is displayed instead of "Mhz"
- Added fix to address CKE glitch issue during S0 to S3 transition.

P05-0026 (P05, build 0026)

About This Release:

April 23, 2003 BZ87510A.86A.0026.P05.0304231448 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

- Updated BIOS support code for Intel
 Pentium 4 Processor with 800MHz system bus.
- Added in ability to flag SPD tolerant DIMM correction in setup with a "*" (star) after the DIMM slot description.
- Fixed check point C9 hang issue.
- Fixed false memory test post time error message when no failures and when dual channel optimization message needs to appear.
- Fixed the issues with devices changing order in the boot list or being disabled when other devices are removed.
- Added support for Express BIOS Update 2.0.
- Fixed runtime Logo enable/disable issue
- JPEG image support now accessible by some OEMs.
- Fixed floppy disable issues
- Fixed issue where ABSCMOS not work correctly.
- Fixed SMBIOS Memory Data Test failure.

P04-0023 (P04, build 0023)

About This Release:

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April 23, 2003
BZ87510A.86A.0026.P05.0304231448
New database, flash 5 and flex BIOS
UNDI 4.1.10
LAN UNDI 1.2.10
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New Fixes/Features:

- Updated memory reference code to revision 1.2
- Resolved issue causing intermittent POST hangs

P03-0021 (P03, build 0021)

About This Release:

April 5, 2003 BZ87510A.86A.0021.P03.0304051502 New database, flash 5 and flex BIOS UNDI 4.1.10 LAN UNDI 1.2.10

New Fixes/Features:

- Added language translations for Memory Mode: Single Channel and Dual Channel
- Fixed USB Zip drive emulation
- Enhanced SATA support for certain drives
- Added the ability to recover from non-bootable CD media (ISO9660 format).
- Fixed issue some USB devices cause lockups at boot.
- Added a workaround to ensure SATA drives operate in the correct mode.
- Lowered power consumption of LAN when system is in S5.

P02-0019 (Production 02, build 0019)

Initial Release