



BIOS ENGINEERING

Intel Corporation, 5200 NE Elam Young Parkway
Hillsboro, OR 97124-6497

DATE: March 22, 2006
PRODUCT: Nob Hill Server Custom BIOS

Build 1104 (Release Candidate)

About This BIOS:

- March 22, 2006
- NH72310J.86B.1104.2006.0322.1002
- SATA RAID info:
 - LSI RAID for SATA - v5.4.11101321I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches:
M1DF3417.PDB,MBDF4117.PDB,M9DF4305.PDB,M9DF4406.PDB,MBDF4903.PDB,M
5CF4A04.PDB,M04F620F.PDB,M9DF4703.PDB
- Intel(R) Active Management Technology BIOSExtension v1.2.3.0000

New Fixes/Features:

- Added microcode support for additional Intel® Pentium® D processors up to 3.4Ghz.
Note: Additional processor qualification is in progress and has not completed at the time of this BIOS release.

Known Errata:

- CMOS settings must be cleared and saved after updating the BIOS with this version.
- Console Redirection of the VGA display not routed to Serial port, You will not see Add-in cards video display. Console redirection requires baud rate of 57600 only.
- LSI 320-1 No Usb mouse in WebBios setup. Firmware 1L37 Bios G119, PS2 mouse good (Tibet 951659).
- USB mouse will not work in LSI based Raid option rom setup without PS2 mouse when CDROM is attached.
- Intel® RAID Controller SRCS16 requires both PS2 mouse and keyboard to be able to configure the option ROM setup.
- Intel® RAID Controller SRCU42L is not compatible with BIOS NH1104D.
- May experience problems when an ATI based Add in Video card is used.
- Updated Microcode. If microcode is not loaded after changing processors you must reflash the BIOS with the new processor. Use "Iflash /rb /pf NH1104P.bio" at the dos prompt.
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Build 1103 (Release Candidate)

About This BIOS:

- March 21, 2006
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- NH72310J.86B.1103.2006.0321.1535
- SATA RAID info:
 - LSI RAID for SATA - v5.4.11101321I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches:
 - M1DF3417.PDB,MBDF4117.PDB,M9DF4305.PDB,M9DF4406.PDB,MBDF4903.PDB,M5CF4A04.PDB,M04F620F.PDB,M9DF4703.PDB,M07F6005.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Fixed ICH7 SATA RAID 0 array going offline before OS load (Tibet 960479).
- Fixed entering Option Rom setup for SRCSAS18E (Tibet 960648).

Known Errata:

- Console Redirection of the VGA display not routed to Serial port, You will not see Add-in cards video display.
- LSI 320-1 No Usb mouse in WebBios setup. Firmware 1L37 Bios G119, PS2 mouse good Tibet 951659.
- USB mouse will not work in LSI based Raid option rom setup without Ps2 mouse when CDROM is attached.
- May experience problems when an ATI based Add in Video card is used.

Build 1063 (Release Candidate)

About This BIOS:

- March 8, 2006
- NH72310J.86B.1063.2006.0308.1033
- SATA RAID info:
 - LSI RAID for SATA - v5.4.11101321I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches:
 - M1DF3417.PDB,MBDF4117.PDB,M9DF4305.PDB,M9DF4406.PDB,MBDF4903.PDB,M5CF4A04.PDB,M04F620F.PDB,M9DF4703.PDB,M07F6005.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Fixed System hangs with TCC Post Card.
- Fixed Adaptec 39320A appears to Hang in Option Rom both Slot 5 and 6 (LX).
- Fixed LSI 22320R Appears to have problem in Slot 5 only with Slot okay.
- Fixed Emulex LP10000 Channel 0 Not ready issue (Tibet 959000).
- Qlogic 2360 will boot with updated Qlogic Option Rom (Tibet 949927).
- Updated Microcode (Tibet 958833). If microcode is not loaded after changing processors you must reflash the BIOS with the new processor. Use "Iflash /rb /pf NH1063C.bio" at the dos prompt.

Known Errata:

- Console Redirection of the VGA display not routed to Serial port, You will not see Add-in cards video display.

- LSI 320-1 No Usb mouse in WebBios setup. Firmware 1L37 Bios G119, PS2 mouse good Tibet 951659.
- USB mouse will not work in LSI based Raid option rom setup without Ps2 mouse when CDRom is attached.
- May experience problems when an ATI based Add in Video card is used.

Build 1026 (Release Candidate)

About This BIOS:

- February 14, 2006
- NH72310J.86B.1026.2006.0214.1033
- SATA RAID info:
 - LSI RAID for SATA - v5.4.11101321I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches:
M1DF3417.PDB,M9DF4117.PDB,M9DF4305.PDB,M9DF4406.PDB,MBDF4903.PDB,M5CF4A03.PDB,M04F620D.PDB,M9DF4703.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Fixed INTEL® RAID CONTROLLER SRCS16 Option Rom setup Keyboard doesn't work without mouse (Tibet 951447).
- Fixed INTEL® RAID CONTROLLER SRCS16 Option rom setup Usb mouse doesn't work (Tibet 951448).
- Fixed Hard drives not available when Intel® RAID Controller SRCU42E is in slot 4 (Tibet 957438).
- Fixed PS2 mouse in LSI320-1 Option rom Setup (Tibet 951659).
- Fixed Console redirection hangs exiting setup on LC (Tibet 955659).
- Fixed System hangs with TCC Post Card.

Known Errata:

- Console Redirection of the VGA display not routed to Serial port, You will not see Add-in cards video display.
- Adaptec 39320A appears to Hang in Option Rom both Slot 5 and 6 (LX).
- LSI 22320R Appears to have problem in Slot 5 only with Slot okay.
- LSI 320-1 No Usb mouse in WebBios setup. Firmware 1L37 Bios G119, PS2 mouse good Tibet 951659.

Build 0962 (Release Candidate)

About This BIOS:

- January 13, 2006
 - NH72310J.86B.0962.2006.0113.1117
 - SATA RAID info:
 - LSI RAID for SATA - v5.4.11101321I
 - Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
 - Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
 - Memory reference code equivalent to MRC 1.2.
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- CPU Patches:
M1DF3417.PDB,M9DF4117.PDB,M9DF4305.PDB,M9DF4406.PDB,MBDF4903.PDB,M5CF4A03.PDB,M04F620D.PDB,M9DF4703.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Changed Console redirection to the Onboard serial port baud rate to 57600.
- Added SMBIOS Type15 structures (Tibet 943272).
- Added additional Help Text to Setup screens (Tibet 944387).
- Added separate Network Boot options for PCIe Lan and PCI Lan Controllers (Tibet 944389).
- Fixed entry into SRCU41L and ARCS16 Option ROM (Tibet 945330, 951442).
- Added Timeout waiting for keyboard input after BIOS messages, i.e. Chassis Intrusion (Tibet 945778).
- Added automatic Disable of On board ATI Video Controller when Add-in Video device installed (Tibet 946126).
- Added support for additional processors (Tibet 950268).
- Removed Manual Aggressive Setup Option (Tibet 950688).
- Changed Non-Fatal PCIe errors to not cause SERR (Tibet 952830).
- Removed Setup Option "Manual Control" for memory.
- Removed Setup Boot Option "Advanced".
- Changed ICH7 RAID Option Rom version.
- Fixed 39320A SCSI Card Device for Channel A operation.

Known Errata:

- Console Redirection of the VGA display not routed to Serial port, You will not see Add-in cards video display.
- Intel® RAID Controller SRCS16 Option Rom setup requires matched mouse and Keyboard (Both PS2 or Both USB).

Build 0734 (Release Candidate)

About This BIOS:

- November 23, 2005
- NH72310J.86B.0734.2005.1123.1649
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Added Console redirection via COM 1 serial port for the LC version only.
 - Added processor entries to the MP table
 - Corrected APM function GetPowerStatus
 - Added USB Ports Enable/Disable
 - Fixed Serial Port Disable not disabling the serial port
 - Fixed BIOS Boot Order display of some SCSI cards
 - Moved location of F2 to enter setup display
 - Added timeout for message displays waiting for user input
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Known Errata:

- Console Redirection of the VGA display not routed to Serial port, You will not see Add-in cards video display.
- XP installation fails without Service Packs

Build 0674 (Production Version)**About This BIOS:**

- October 10, 2005
- NH72310J.86B.0674.2005.1011.1851
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Fixed WOL from S4 and Intel® 82541PI voltage backfeed to ICH while in S4.

Build 0663 (Production Version)**About This BIOS:**

- October 07, 2005
- NH72310J.86B.0663.2005.1007.1516
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Enabled PERR and Serr on PCIx to cause NMI resulting in Blue Screen (Tibet 938470).
- Fixed Issue where 39320A Setup wouldn't allow configuration or Channel A (Tibet 945271).
- Fixed PME detection on PCIx Bus (Tibet 942001).
- Added Hardware Monitoring setup page to LC Sku (Tibet 946678).
- Fixed Red Hat EL 4.0 Install and Boot problems on LC SKU (Tibet 947711, 947722).

Known Errata:

- XP installation fails without Service Packs (Tibet 944010).

Build 0626 (Release Candidate)**About This BIOS:**

- September 28, 2005
 - NH72310J.86B.0626.2005.0928.1934
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- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB,
M9DF4406.PDB
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Fixed Intel® 82541PI back driving VCC and VCC3 while in S5 with wake on Lan enabled (Tibet 947156).
- Set network boot disabled as default (Tibet 946694).
- Increased Splash Screen/Logo delay time to 5 seconds (Tibet 946655).

Known Errata:

- XP installation fails without Service Packs (Tibet 944010).

Build 0615 (Release Candidate)

About This BIOS:

- September 20, 2005
- NH72310J.86B.0615.2005.0920.2142
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB,
M9DF4406.PDB
- AMT Firmware version 1.1.36.
- Intel(R) Active Management Technology BIOS Extension v1.2.3.0000

New Fixes/Features:

- Enabled iAMT bios extensions (Tibet 947230).
- Fixed 33MHz PCI cards in PCI-X slot hanging system.

Known Errata:

- XP installation fails without Service Packs (Tibet 944010).

Build 0595 (Release Candidate)

About This BIOS:

- September 15, 2005
- NH72310J.86B.0595.2005.0915.2157
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB,
M9DF4406.PDB

New Fixes/Features:

- Fixed issue where add-in cards would not work in PCI Slot 2 in Manufacturing Mode (Tibet 946424).
- Corrected SMBIOS System Slots Information (Type 9) and On Board Devices Information (Type 10) (Tibet 945834).
- Changed minimum fan tach settings for the Heceta in SIO (Tibet 946657).

Known Errata:

- XP installation fails without Service Packs (Tibet 944010).
- 33MHz PCI cards may not work in PCI-X slot and the system may hang.

Build 0570 (Beta)

About This BIOS:

- September 13, 2005
- NH72310J.86B.0570.2005.0913.1756
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Corrected SMBIOS System Slots Information (Type 9) and On Board Devices Information (Type 10) (Tibet 945834).
- Changed minimum tach settings for Heceta's on LC and LX (Tibet 945850).
- Fixed Intel® SCRU42X (Chilito-2) and SCSI ICPVotex cards entering option rom setup (Tibet 946111 and 946135)
- Fixed Windows 2003 Adaptec 39160 in PCI-X riser Card (Tibet 938814).
- Fixed Windows 2003 finding hard drives in LX Slots 5 and 6 (Tibet 944009).
- Fixed Display of Adaptec cards in Slots 5 and 6 (Tibet 945271).
- Fixed Display of Adaptec ASR-2110S (Phantom) card in Boot menu Normal mode (Tibet 946134).

Known Errata:

- Can't pass MVL 4-corner when testing 4GB & 8GB of total memory with 2GB parts (Tibet 942555).
- XP installation fails without Service Packs (Tibet 944010).
- 33MHz PCI cards may not work in PCI-X slot and the system may hang.

Build 0525 (Beta)

About This BIOS:

- September 2, 2005
 - NH72310J.86B.0525.2005.0902.1536
 - SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
 - Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
 - Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
 - Memory reference code equivalent to MRC 1.2.
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- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Enabled PCI-X/PXH on Intel® Entry Server Board SE7230NH1-E LX platforms.
- Fixed issue where the BIOS did not match Silk Screen for memory on FAB B board (Tibet 941994).
- Fixed no video on first boot at Functional Test after In Circuit Testing (Tibet 946141).
- Changed manufacturing default for PCIe Compliance to Enable.

Known Errata:

- Can't pass MVL 4-corner when testing 4GB & 8GB of total memory with 2GB parts (Tibet 942555).
- XP installation fails without Service Packs (Tibet 944010).
- 33MHz PCI cards may not work in PCI-X slot and the system may hang.

Build 0497C (Release Candidate)
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About This BIOS:

- August 24, 2005
- NH72310J.86B.0497.2005.0824.1452
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Fixed low throughput on PCI bus. (Tibet 944096).
- Fixed issue where Windows installation or boot hung with Intel® SCRU42X (Chilito-2) RAID card. (Tibet 944008).
- Removed Hardware Monitoring page from the BIOS Setup (Tibet 945441).
- Fixed WHQL ACPI Verifier failure on HCT 12.1.01 Windows 2003 SP1 32bit (Tibet 944497).
- Changed Product Guide message when no boot devices found in the system from "Desktop" to "Server" (Tibet 944402).
- Allowed Ctrl+Alt+Del when no boot devices detected in the system (Tibet 944402).
- Enabled Pulse Width Stretching for 3-wire fan headers.

Known Errata:

- Can't pass MVL 4-corner when testing 4GB & 8GB of total memory with 2GB parts (Tibet 942555).
- XP installation fails without Service Packs (Tibet 944010).

Build 0489C (Release Candidate)
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About This BIOS:

- August 18, 2005
 - NH72310J.86B.0489.2005.0818.1716
 - SATA RAID info:
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- LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82541PI)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Fixed PXE boot via Intel® 82541PI LAN (Tibet 945190).
- Added support for PERR/SERR events detection and logging (Tibet 942037).
- Fixed reading of dowling fan tachs at manufacturing (Tibet 944104).

Known Errata:

- Can't pass MVL 4-corner when testing 4GB & 8GB of total memory with 2GB parts (Tibet 942555).
- Unable to install Win2003 with Intel® SRCU24X (Chilito-2) on Intel® Entry Server Board SE7230NH1-E Fab-B (Tibet 944008).
- XP installation fails without Service Packs (Tibet 944010).

Build 0467C (Release Candidate)

About This BIOS:

- August 15, 2005
- NH72310J.86B.0467.2005.0815.1849
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent FE v4.1.17 (Ekron)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Fixed problem with QuickPost post card hang at checkpoint 58.

Known Errata:

- Can't pass MVL 4-corner when testing 4GB & 8GB of total memory with 2GB parts (Tibet 942555).
- Unable to install Win2003 with Intel® SRCU24X (Chilito-2) on Intel® Entry Server Board SE7230NH1-E Fab-B (Tibet 944008).
- XP installation fails without Service Packs (Tibet 944010).
- Perr Serr event detection and logging

Build 0462C (Release Candidate)

About This BIOS:

- August 12, 2005
 - NH72310J.86B.0462.2005.0812.1558
 - SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
 - Initializing Intel(R) Boot Agent FE v4.1.17 (Ekron)
 - Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
 - Memory reference code equivalent to MRC 1.2.
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- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Changed Subsystem Vendor Id of onboard ATI RN50 video controller to 0x8086 (Tibet 943983).
- Added support for RMC POST complete signal (Tibet 940161).

Known Errata:

- Can't pass MVL 4-corner when testing 4GB & 8GB of total memory with 2GB parts (Tibet 942555).
- Unable to install Win2003 with Intel® SRCU24X (Chilito-2) on Intel® Entry Server Board SE7230NH1-E Fab-B (Tibet 944008).
- XP installation fails without Service Packs (Tibet 944010).

Build 0454C (Release Candidate)
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About This BIOS:

- August 11, 2005
- NH72310J.86B.0454.2005.0811.1712
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent FE v4.1.17 (Ekron)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.2.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Fixed issue where the device could not install correct driver (Tibet 943976).
 - Added BBS Popup Menu (Boot Menu), invoked with <ESC> hotkey during POST (Tibet 943741).
 - Removed references to "Desktop" from the BIOS Setup (Tibet 943740).
 - Added support for PERR/SERR events detection and logging (Tibet 942037).
 - Fixed issue where Fibre Channel cards Qlogic 2362 and Emulex 10000ex did not show up in Setup boot order (Tibet 942553).
 - Fixed issue where sometimes ECC errors were not detected and logged (Tibet 941993).
 - Updated Memory Reference Code to version 1.2 (Tibet 943674).
 - Changed manufacturing default of the "Primary Video Adaptor" setup option to External PCI Graphics (Tibet 940719).
 - Changed spread mode of the clock to down spread (Tibet 944455).
 - Added workaround to fix boot hangs with locked CPU at 1066MHz FSB (Tibet 944106).
 - Fixed issue where unused PCI slot clocks were not turned off (Tibet 938808).
 - Turned off unused PCIE ports (Ports 2, 3 and 4) in the South Bridge.
 - Changed defaults of "USB Boot" setup option to Enable.
 - Moved "ZIP Emulation Type" setup option to Boot menu and changed its defaults to Floppy.
 - Changed defaults of "Wake on LAN from S5" option to Stay Off.
 - Fixed EIST setup option based on processor capability.
 - Changed defaults of "Chassis Intrusion" setup option to Enable.
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- Fixed SATA Configuration setup option based on ICH features capability.

Known Errata:

- Can't pass MVL 4-corner when testing 4GB & 8GB of total memory with 2GB parts (Tibet 942555).
- Cert-WHQL Invalid vendor ID for ATI ES1000 (Tibet 943983).
- Unable to install Win2003 with Intel® SRCU24X (Chilito-2) on Intel® Entry Server Board SE7230NH1-E Fab-B (Tibet 944008).
- XP installation fails without Service Packs (Tibet 944010).
- RMC POST complete signal failure (Tibet 940161).

Build 0444B (Beta)

About This BIOS:

- August 5, 2005
- NH72310J.86B.0444.2005.0805.1021
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent FE v4.1.17 (Ekron)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.0.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Added 2nd onboard LAN enable/disable option in Setup (Tibet 936819).
- Fixed issue where unused PCI slot clocks were not turned off (Tibet 938808).
- Fixed Windows XP installation hang problem at PCI.SYS (Tibet 944010).
- Added fan control support (Tibet 943246).
- Removed "ACPI Suspend State" option from the BIOS Setup.

Known Errata:

- PCI Slot 2 is off unless there is a card in PCI Slot 1.
- Intel® 82541PI Lan is disabled on shutdown restart.

Build 0400B (Beta)

About This BIOS:

- July 28, 2005
- NH72310J.86B.0400.2005.0728.1802
- SATA RAID info:
 - LSI RAID for SATA - v5.4.05262138I
- Initializing Intel(R) Boot Agent FE v4.1.17 (Ekron)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.0.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- LSI 22320, LSI Megaraid SATA 150-6 fixes for multiple CV/DV configurations (Tibet 942505, 942507).
 - New GPIO Programming for Intel® 82541PI LAN enable disable.
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- Linux install of RHLE with 4 SATA Drives (Tibet 942510).
- Fixed enter of Intel® SRCU42L-Chilito OPRom Setup (Tibet 942554).
- Fixed SMBIOS tables in BIOS (Tibet 942588).
- Fixed Event logs display of wrong date/year (Tibet 939495).
- ECC is set as default (Tibet 941995).
- BIOS Suspend state defaults to S1 (Tibet 943226).
- ASF removed from BIOS Setup (Tibet 943219).
- Front panel lights blink in standby (Tibet 936104).

Known Errata:

- Intel® 82541PI Lan is disabled on shutdown restart.

Build 0287 (Beta)

About This BIOS:

- July 8, 2005
- NH72310J.86B.0287.2005.0708.1725
- SATA RAID info:
 - LSI RAID for SATA - v5.4.052621381
- Initializing Intel(R) Boot Agent FE v4.1.17 (Ekron)
- Initializing Intel(R) Boot Agent GE v1.2.28 (Intel® 82573E/V)
- Memory reference code equivalent to MRC 1.0.
- CPU Patches: M1DF3417.PDB, MBDF4117.PDB, M9DF4305.PDB, M9DF4406.PDB

New Fixes/Features:

- Mukilteo (7230) Chipset support
- System bus support 1066/800/533
- Memory support DDR2 667/533 up to 8 GB
- Added new Server logo 800X600 BMP
- Fixed issues with LSI Mega Raid card
 - o Properly detected during boot
 - o Yellow bangs in device manager
- Fixed issue where system would hang when shutting down from windows.
- New GPIO Programming for Intel® 82541PI LAN enable disable.

Known Errata:

- Intel® 82541PI Lan is disabled on shutdown restart.