

Server WHQL Testing Services

Enterprise Platforms and Services Division

Intel® Server Board SCB2 ATA

Server Test Submission (STS) Report

For the Microsoft® Windows® Logo Program (WLP)

Rev 1.1

January 22, 2003

This report describes the Intel® Server Board SCB2 ATA Windows Update Hardware Compatibility Test (HCT) run conducted by Intel Enterprise Platforms and Services Division (EPSD).

Purpose of this WLP Submission:

WLP Update Hardware and Drivers Test submission for the Intel® Server Board SCB2 ATA.

| Run Type: | Check one | Comments |
|-----------------------|-----------|----------|
| First run new product | | |
| Board HW update | V | |
| BIOS/Firmware update | Ø | |
| OS update | | |

Revision History and Disclaimers

| Revision History | | |
|------------------|-----------|--|
| Revision | Date | Comments |
| 1.0 | 4/29/2002 | STS Report for the First-Time Hardware and Driver Test Submission for SCB2 ATA |
| 1.1 | 1/22/2003 | STS Report for the Update Hardware and Driver Test Submission for SCB2 ATA |

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Introduction

This report provides an overview of the testing conducted on the Intel® Server Board SCB2 ATA by Intel EPSD and provides details about this testing run.

Overview of Contents

| Section | Content | |
|---------------------------------------|--|--|
| Introduction | Brief descriptions of the sections in the report. Table listing terms and definitions. | |
| Server Product Submission Information | Submission information, ID # and final server board configuration upon completion of WLP including HW, Driver version, BIOS version, and Board AA number | |
| НСТ | All HCT's used during testing | |
| Errata and Contingencies | All Microsoft* errata or contingencies used during testing | |

Terms and Definitions

| Term | Definitions |
|-------|---|
| WHQL | Windows* Hardware Qualification Lab. For more information visit the WHQL home page at: http://www.microsoft.com/hwdq/hwtest/default.asp |
| нст | Hardware Compatibility Tests. For latest Server HCTs visit: http://www.microsoft.com/hwdq/hwtest/devices/systems.asp?area=syssrv-srvr |
| WLP | Windows Logo Program. For further information see: http://www.microsoft.com/winlogo/ |
| HCL | Windows Hardware Compatibility List. You can view the HCL at: http://www.microsoft.com/hwdq/hcl/search.asp |
| WLPQS | Windows Logo Program Qualification Service – Secure online web site used to submit products for logo qualification and review submission history. https://winqual.microsoft.com/ |

Server Board Submission Information

Intel Server Board Submission Report: Completion of WLP

Data in this section reflects system submission information at the time of WLP Update submission.

Submission Information

| Submission ID | | | |
|--|----------------------------------|------------------------------------|--|
| Submission ID / Master ID | 656243 | | |
| Previously logo'd Submission ID / Master ID | 567688 | | |
| Submission Type | | | |
| | Check Submission Type | Comments | |
| First-Time Hardware and Driver Test Submission | | | |
| Update Hardware and Driver Test Submission | | Hardware and BIOS/Firmware Updates | |
| Update Type (Update Hardwa | re and Drivers Test Submission C | ONLY) | |
| | Check Update Type | Comments | |
| Hardware (Firmware) Update | | | |
| System Update | \square | | |
| Previously Logo'd Operating System | Windows* 2000 | | |
| Update Type Detail (Update H | lardware and Drivers Test Submis | sion ONLY) | |
| | Check Update Type | Comments | |
| New CPU Speeds | | | |
| Motherboard Updates | \square | | |
| BIOS Updates | \square | | |
| Product Category | | | |
| Hardware Category | PC System or Server | | |
| Operating System Selected | Windows* 2000 | | |

| Product Detail | | | | |
|-----------------------------|-------------------------------|--------------------------------|--|--|
| General Product Information | | | | |
| Equipment Type | Server | | | |
| Primary Target Market | Business/Corporate | | | |
| Compliance | Server Design Guide (SDG) 2.0 | | | |
| Testing Matrix (optional) | | | | |
| | Check Tested | Comments | | |
| PAE_Tested | \square | Supports 4GB or more of memory | | |
| Characterization (optional) | Characterization (optional) | | | |
| | Check appropriate options | Comments | | |
| Web Server | | | | |
| SQL Database Server | V | | | |
| File Server | | | | |

Server Board Configuration Information

| Processor | | |
|--------------------------------------|---|--|
| Quantity | 2 | |
| Front Side Bus Speed | 133 MHz | |
| Family/Model | Intel® Pentium® III Processor with 512-KB L2 Cache Support | |
| Speed | 1GHz, 1.133 GHz, 1.266 GHz, 1.4 GHz | |
| System Memory | | |
| Amount Installed | 6 GB | |
| Memory Type | PC133 ECC SDRAM memory | |
| Power Management | | |
| ACPI Sleep States (S1, S2, S3, S4) | S1, S4 | |
| Server Board Product | | |
| System uses logo'd motherboard | NO (Server boards are <u>NOT</u> eligible for logo under the Microsoft* Motherboard logo program) | |
| Board AA #/Fab | PBA A46043-611 | |
| Board Manufacturer | Intel Corporation | |
| Board Model | SCB2 ATA | |
| Northbridge* Chipset Manufacturer | ServerWorks* | |
| Northbridge Chipset Model | ServerSet* III HE-SL | |
| Southbridge* Chipset Manufacturer | ServerWorks | |
| Southbridge Chipset Model | CSB5 A2.0 | |
| BIOS | | |
| BIOS Manufacturer | AMI* | |
| BIOS Version | SCB2 Production Release BIOS Version 2.09, Build 65 (SCB20.86B.0065.P19) | |
| BIOS Date | 8/22/02 | |
| BIOS URL (For Updates) | http://support.intel.com/support/motherboards/server/SCB2/ | |
| Firmware | | |
| BMC Version | 63 | |
| HSC Version | v0.5 for the Intel® SR2200 Server Chassis | |
| FRU/SDR Version | 5.0.P | |
| Firmware URL (For Updates) | http://support.intel.com/support/motherboards/server/SCB2/ | |

| Bus Types | | | |
|-----------------------|----------------------|-------------------|----------------------|
| | Check all that Apply | | Check all that Apply |
| PS/2 | \square | AGP* | |
| 1394 | | PCCard* (16-bit) | |
| CF (Compact Flash) | | CardBus* (32-bit) | |
| PCI | V | USB | \square |
| Mini-PCI | | USB 2.0 | |
| AMR | | InfiniBand* | |
| ACR | | Bluetooth* | |
| COM (Serial) | V | | |
| Integrated Components | · | | |
| | Check all that Apply | | Check all that Apply |
| Audio | | Display | |
| IDE | \square | Networking | |
| SCSI | | RAID | |
| Modem | | Bluetooth* | |

Onboard Integrated Devices and Drivers

Data in this section reflects system configuration at the time of WLP submission. The latest drivers for the Intel® Server Board SCB2 ATA are available for download at:

http://developer.intel.com/support/motherboards/server/SCB2/

| Technology | os | Version |
|--|---------------|----------------|
| LAN Intel® PRO 100+ Server Ethernet Controller | Windows* 2000 | 6.01.03.0000 |
| (Intel® 82550PM Controller) | Windows .NET* | N/A |
| ATA | Windows 2000 | 2.30.140.2 |
| Promise* PDC20267 dual channel ATA/100 RAID Controller | Windows .NET | N/A |
| Display | Windows 2000 | 5.00.2195.5012 |
| ATI* Rage* XL VGA PCI Video Controller (with 8MB of Video Memory) | Windows .NET | N/A |

Product Data for HCL: Completion of WLP

Data in this section reflects product data for HCL at time of WLP submission.

| Product Data | | | |
|--------------------------------|----------------------------|----------|--|
| Product Name | Intel® Server Board SCB2 A | NTA | |
| Additional Product Names | SCB2 ATA | | |
| | Intel SCB2 ATA Platform | | |
| | Intel SCB2 ATA Server | | |
| Supported Platforms | | | |
| | Check Tested | Comments | |
| Windows 2000 Professional | | | |
| Windows 2000 Server | \square | | |
| Windows 2000 Advanced Server | \square | | |
| Windows 2000 Datacenter | | | |
| Windows .NET Web Server | | | |
| Windows .NET Standard Server | | | |
| Windows .NET Enterprise Server | | | |
| Windows .NET Datacenter | | | |

Hardware Compatibility Tests Used (HCT)

Microsoft* WHQL Server Testing Home Page:

http://www.microsoft.com/hwdq/hwtest/devices/systems.asp?area=syssrv-srvr.

Please check this website regularly for test kit updates.

| Operating Systems | Notes | НСТ |
|-------------------------|--|--|
| Windows* 2000 | Readme for Microsoft Windows Logo HCT 9.502 http://www.microsoft.com/hwtest/search/details.asp?ID=337 | HCT 9.502 Test Kit (35.4 MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/HCT9502UPD.EXE |
| | Logo'd Components Index Full Install | Logo'd Components Index Full Install (~9.8 MB) http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe |
| | Contents of the HCT 9.5 Test Kit http://www.microsoft.com/hwtest/search/details.a sp?ID=231 | HCT 9.5 Test Kit (140 MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/hct19991122.exe |
| | HCT 9.502 Test Procedures for Systems, Servers, and Cluster Servers (Windows 2000) http://download.microsoft.com/download/whistler/Docs/Docs/W982KMeXP/EN-US/HCT9502_Systems.exe | HCT 9.502 Test Kit (35.4MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/HCT9502UPD.EXE |
| | 3.91 & 3.86 NDIS Intermediate Drivers Instructions http://download.microsoft.com/download/whistler/ | NDIS Test Update 3.91 (ndt391.exe) (2MB) http://download.microsoft.com/download/whistler/Instal/12.2/W982KMeXP/EN-US/ndt391.exe |
| | Install/20.1/W982KMeXP/EN- US/NDISIntermedDriver.exe | NDIS Test Update 3.86 (ndt386.exe) (2.02MB) http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt386.exe |
| Windows* Server 2003 | HCT 11.1 Test Procedures and Readme files for Windows XP SP1 and Windows Server 2003 (4.95MB) http://www.microsoft.com/hwdq/hwtest/search/details.asp?ID=686 | HCT 11.1 (Windows XP SP1 and Windows Server 2003) Test Kit (4.95MB) http://www.microsoft.com/hwdq/hwtest/search/details.asp?ID=685 |
| | Logo'd Components Index Full Install | Logo'd Components Index Full Install (~9.8 MB) http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe |

Errata and Contingencies

Microsoft System HCT Errata list is available at:

http://www.microsoft.com/hwdq/hwtest/search/results.asp?sType=Err&Key=system&kit=3&Sort=Title&ipage=1

| Operating System | Identification Number | Title | |
|------------------|-----------------------|---|--|
| Windows* 2000 | 95 | CD-ROM (Audio Cert) issues | |
| Windows 2000 | 209 | PnP Enable/Disable Test Issues | |
| Windows 2000 | 298 | PCI Power Management Register Interface Test: False Failure | |
| Windows 2000 | 418 | ACPI Pre-OS tests are not required for system submissions | |
| Windows 2000 | 670 | PCI Pre-OS tests are no longer required, depending on the number of PCI slots in the test system | |
| Windows 2000 | 683 | Parallel port and LPT PnP Enumeration tests not required for systems and servers without parallel ports | |
| Windows 2000 | 702 | Audio tests are not required for servers that do not implement audio devices | |
| Windows 2000 | 719 | DVD test cannot be run on systems without a DVD drive | |
| Windows 2000 | 722 | PCI 2.2 Compliance test and PCI 2.1 (Cards) test might fail test systems with ATA/ATAPI controllers | |

Intel® Server Board SCB2 ATA Submission Readme File

Effective May 1, 2002, the new Microsoft standardized Readme form will be required for all hardware submissions that include any of the following testing exceptions:

- Test failures
- Tests not run
- Missing test logs
- Inconclusive test results

All testing exceptions must be identified with a valid Errata ID, Incident ID, or Contingency ID provided by WHQL. The new Microsoft standardized Readme file is available for download at: http://download.microsoft.com/download/whistler/install/1.0/w98nt42kmexp/en-us/readme.exe

Testing Exceptions for Intel® Server Board SCB2 ATA Update Submission

Data in this section reflects product data and test exceptions listed in section 2 of the Intel® Server Board SCB2 ATA Readme file at time of WLP Update submission.

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|---|------------|--|
| Windows 2000 | Errata | 702 | |
| Failing test name | DSound, Full Duplex, Mixer Driver, Wa | ave Driver | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Servers that do not ship with an audio device are not required to run the following audio tests: Direct Sound Driver Full Duplex Mixer Driver Wave Driver Refer to errata 702 titled: Audio tests are not required for servers that do not implement audio devices | | |
| Additional information (for example, test system in a multiple system configuration) | | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|--|-----------|--|
| Windows 2000 | Errata | 722 | |
| Failing test name | PCI 2.1 (Cards) Test | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Errata Title: PCI 2.2 Compliance test and PCI 2.1 (Cards) test might fail test systems with ATA/ATAPI controllers Problem: PCI2.1 (Cards) test fails with the following error: Getting the resource Length. BAR is 0xFFBFFC00, Length of BAR is 0x00000400 ERROR: Base register 24 should be zero (read-only)! | | |
| Additional information (for example, test system in a multiple system configuration) | | | |

Additional Information for Udpate Submission

Data in this section reflects product data and additional information entered in section 3 of the Intel® Server Board SCB2 ATA Readme file at time of WLP submission.

• Due to Windows* 2000 Advanced Server* operating system limitations server systems that support 4GB or more of memory are tested with maximum memory installed for all HCTs except for the ACPI HCTs. Memory is removed in order to bring the total system memory below 4GB to enable Windows 2000 Advanced Server to go into hibernation. Refer to errata ID: 92 and the AWE Test procedures for more information.

Testing Exceptions for Intel® Server Board SCB2 ATA First Time Submission

Data in this section reflects product data and test exceptions listed in section 2 of the Intel® Server Board SCB2 ATA Readme file at time of WLP First-Time submission.

| Operating system (Windows* XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|---|-----------|--|
| Windows 2000 | Errata | 95 | |
| Failing test name | CD-ROM (Audio Cert) | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Errata Title: CD-ROM (Audio Cert) issues Log File: MCICDFL.LOG Problem: Following errors occurs in the log file: ERROR: 'status Alias1 current track' expected RetVal '12', got '110' Solution: Refer to Errata 95 for details of above acceptable failure. | | |
| Additional information (for example, test system in a multiple system configuration) | | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|--|-----------|--|
| Windows 2000 | Errata | 209 | |
| Failing test name | PnP Disable/Enable Test fails | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Problem: PNP Disable/Enable test fails with the following error: QueryRemove Adapter FAILED 0x17 CR_REMOVE_VETOED VetoType = PNP_VetoWindowsApp VetoName = C:\WINNT\System32\svchost.exe Solution: This is an acceptable failure. Include errata item ID # 209 in your readme.txt when you make your submission. | | |
| Additional information (for example, test system in a multiple system configuration) | | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number |
|--|---|-----------|
| Windows 2000 | Errata | 298 |
| Failing test name | PCI Power Management Register Inte | rface |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Errata Title: PCI Power Management Register Interface Test: False Failure Log File: pcicap.log Problem: Following errors occurs in the PCICAP log file: | |
| Additional information (for example, test system in a multiple system configuration) | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | | |
|--|--|---|--|
| Windows 2000 | Errata | 670 | |
| Failing test name | Preview PCI Pre-OS Tests (PME# Sig Simultaneous PME# Signal Assert) | nal Routing, 3.3 Vauv Auxiliary Power Load, | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Preview PCI Pre-OS Test failures are acceptable. Preview PCI Pre-OS tests are not required to pass with HCT 9.502 on systems with any number of PCI slots. The SCB2 SCSI system has 2 available PCI slots. | | |
| | The following Preview PCI Pre-OS Tests failures are acceptable per errata 670: | | |
| | PME# Signal Routing[Preview] acceptable failure | | |
| | 3.3Vaux Auxiliary Power Load[Preview] acceptable failure | | |
| | Simultaneous PME# Signal Assert[Preview] acceptable failure | | |
| | Refer to errata 670 titled: <u>PCI Pre-OS tests are no longer required, depending on the number of PCI slots in the test system</u> | | |
| Additional information (for example, test system in a multiple system configuration) | | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|---|---|--|
| Windows 2000 | Errata | 683 | |
| Failing test name | Parallel Test | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | | hat ship without a parallel port. Refer to errata neration tests not required for systems and | |
| Additional information (for example, test system in a multiple system configuration) | | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|--|------------|--|
| Windows 2000 | Errata | 702 | |
| Failing test name | DSound, Full Duplex, Mixer Driver, Wa | ave Driver | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Servers that do not ship with an audio device are not required to run the following audio tests: Direct Sound Driver Full Duplex Mixer Driver Wave Driver Wave Driver Audio tests are not required for servers that do not implement audio devices | | |
| Additional information (for example, test system in a multiple system configuration) | | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|--|---|--|
| Windows 2000 | Errata | 719 | |
| Failing test name | DVD Test | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | DVD test not required for systems that titled: DVD test cannot be run on sys | at ship without a DVD drive. Refer to errata tems without a DVD drive | |
| Additional information (for example, test system in a multiple system configuration) | | | |

| Operating system (Windows XP, Windows 2000, etc.) | Failure type (Contingency, Errata, Incident) | ID number | |
|--|---|-----------|--|
| Windows 2000 | Errata | 722 | |
| Failing test name | PCI 2.1 (Cards) Test | | |
| Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text) | Errata Title: PCI 2.2 Compliance test and PCI 2.1 (Cards) test might fail test systems with ATA/ATAPI controllers Problem: PCI2.1 (Cards) test fails with the following error: Getting the resource Length BAR is 0xFFBFFC00, Length of BAR is 0x00000400 ERROR: Base register 24 should be zero (read-only)! | | |
| Additional information (for example, test system in a multiple system configuration) | | | |

Additional Information for First-Time Submission

Data in this section reflects product data and additional information entered in section 3 of the Intel® Server Board SCB2 ATA Readme file at time of WLP submission.

- To pass the Serial Port(COM2) HCT either use a RJ45 loopback connector that meets HCT requirements or use the SCB2 RJ45 to DB9 adapter and an appropriate DB9 loopback connector attached to the SCB2 RJ45 serial connector then run the HCTs. Refer to the Intel SCB2 Attention sheet # A77758-001 and the SCB2 Product Guide regarding configuration of the RJ45 serial connector and the RJ45 to DB9 adapter for more information.
- Due to Windows* 2000 Advanced Server operating system limitations server systems that support 4GB or more of memory are tested with maximum memory installed for all HCTs except for the ACPI HCTs. Memory is removed in order to bring the total system memory below 4GB to enable Windows 2000 Advanced Server to go into hibernation. Refer to errata ID: 92 and the AWE Test procedures for more information.

Appendix A – Submission History

Submission history for the Intel® Server Board SCB2 ATAATA:

| WLPQS Submission History | | | | | |
|--------------------------|--------------------------|-----------|--|--------------------|---|
| Submission ID | Туре | Date | Processor Speeds | Board Revision | BIOS Version |
| 656243 | Update Submission | 1/22/2003 | 1GHz, 1.133 GHz, 1.266 GHz, 1.4 GHz Intel® Pentium® III Processor with 512-KB L2 Cache Support | PBA A46043- 611 | SCB2 Production Release BIOS Version 2.09, Build 65 (SCB20.86B.0065.P19) |
| 567688 | First-Time Submission | 1/29/2002 | 1GHz, 1.133 GHz, 1.266 GHz, 1.4 GHz Intel® Pentium® III Processor with 512-KB L2 Cache Support | PBA-AXXXXX- 606 | SCB2 Production Release 1.01 |