



Server WHQL Testing Services
Enterprise Platforms and Services Division

Intel® Server Board SAI2

Server Test Submission (STS) Report

For the Microsoft® Windows® Logo Program (WLP)

4/4/2002

This report describes the SIA2 Server Board Window Logo Program testing run conducted by Intel® Enterprise Platforms and Services Division (EPSD).

Purpose of this WLP Submission:

WHQL Intel® SAI2 Server Board first submission.

| Run Type: | Check one | Comments |
|-----------------------|-------------------------------------|--|
| First run new product | <input checked="" type="checkbox"/> | First run for Product launch |
| Board HW update | <input type="checkbox"/> | ECO # or PCN change |
| BIOS/Firmware update | <input type="checkbox"/> | Updated BIOS or Firmware version |
| OS update | <input type="checkbox"/> | New Microsoft operating system release |

Revision History and Disclaimers

| Revision History | | |
|------------------|----------|--|
| Revision | Date | Comments |
| 1.0 | 4/4/2002 | SAI2 STS Report for the First-Time Hardware and Driver Test Submission |
| | | |
| | | |

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Contents

| | |
|--|-----------|
| Revision History and Disclaimers | 2 |
| Introduction | 4 |
| Overview of Contents..... | 4 |
| Terms and Definitions | 4 |
| Server Board Submission Information | 5 |
| Intel® Server Board SAI2 Submission Report: Completion of WLP..... | 5 |
| Submission Information..... | 5 |
| Submission ID..... | 5 |
| Submission Type..... | 5 |
| Product Category | 5 |
| Product Detail..... | 5 |
| General Product Information | 5 |
| Testing Matrix (optional)..... | 5 |
| Features (optional) | 5 |
| Characterization (optional) | 6 |
| Server Board Configuration Information | 6 |
| Processor..... | 6 |
| System Memory | 6 |
| Power Management | 6 |
| Server Board Product..... | 6 |
| BIOS | 7 |
| Bus Types | 7 |
| Integrated Components..... | 7 |
| Onboard Integrated Devices and Drivers | 8 |
| Product Data for HCL: Completion of WLP | 8 |
| Product Data | 8 |
| Hardware Compatibility Tests Used (HCT) | 9 |
| Errata and Contingencies..... | 10 |
| SAI2 Submission Readme File..... | 10 |
| Testing Exceptions for SAI2 Submission..... | 10 |
| Additional Information | 11 |

Introduction

This report provides an overview of the testing conducted on the product by Intel® EPD 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 |
| HCT | 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 |
| HCT | Hardware Compatibility Tests |
| WLP | Windows Logo Program. For further information see: http://www.microsoft.com/hwtest/default.asp |
| HCL | Windows Hardware Compatibility List. You can view the HCL at: http://www.microsoft.com/hcl/ |

Server Board Submission Information

Intel® Server Board SAI2 Submission Report: Completion of WLP

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

Submission Information

| Submission ID | | |
|--|-------------------------------------|---|
| Submission ID / Master ID | 581773 | |
| Submission Type | | |
| | Check Submission Type | Comments |
| First-Time Hardware and Driver Test Submission | <input checked="" type="checkbox"/> | Required for first time product submissions |
| Update Hardware and Driver Test Submission | <input type="checkbox"/> | Required for Hardware and BIOS/Firmware Updates |
| 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 | SDG 2.0 | |
| Testing Matrix (optional) | | |
| | Check Tested | Comments |
| PAE_Tested | <input checked="" type="checkbox"/> | Supports 4GB or more of memory |
| Requires Custom HAL (Hardware Abstraction Layer) | <input type="checkbox"/> | |
| Features (optional) | | |
| | Check all Support Features | Comments |
| Legacy free | <input type="checkbox"/> | |
| Closed Box | <input type="checkbox"/> | |
| Slim Line/Space Saver | <input type="checkbox"/> | |
| Quiet Operation | <input type="checkbox"/> | |

| Characterization (optional) | | |
|-----------------------------------|-------------------------------------|----------|
| | Check appropriate options | Comments |
| Gaming Machine | <input type="checkbox"/> | |
| Terminal Server Client | <input type="checkbox"/> | |
| Digital/Video Editing Workstation | <input type="checkbox"/> | |
| CAD/Graphic Design Workstation | <input type="checkbox"/> | |
| Web Server | <input checked="" type="checkbox"/> | |
| SQL Database Server | <input checked="" type="checkbox"/> | |
| File Server | <input checked="" type="checkbox"/> | |

Server Board Configuration Information

| Processor | |
|-----------------------------------|---|
| Quantity | 2 Processors |
| Front Side Bus Speed | 133 MHz |
| Family | Intel® Pentium® III processor |
| Speed | 1 Ghz, 1.133 Ghz, 1.266 Ghz, 1.4 Ghz |
| System Memory | |
| Amount Installed | 4GB |
| Memory Type | SDRAM |
| Power Management | |
| ACPI Sleep States | S4/S1 |
| 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 | A66889-202 /Fab 2 |
| Board Manufacturer | Intel Corporation |
| Board Model | SAI2 |
| Northbridge* Chipset Manufacturer | SERVERWORKS* |
| Northbridge Chipset Model | ServerSet* III LE Chipset |
| Southbridge* Chipset Manufacturer | SERVERWORKS |
| Southbridge Chipset Model | CSB5 A2.1 |

| BIOS | | | |
|------------------------------|---|-------------------|-------------------------------------|
| BIOS Manufacturer | Phoenix* | | |
| BIOS Version | BIOS 19 P06 | | |
| BIOS Date | 02/15/02 | | |
| BIOS URL (For Updates) | http://support.intel.com/ | | |
| Bus Types | | | |
| | Check all that Apply | | Check all that Apply |
| PS/2 | <input checked="" type="checkbox"/> | AGP* | <input type="checkbox"/> |
| 1394 | <input type="checkbox"/> | PCCard* (16-bit) | <input type="checkbox"/> |
| CF (Compact Flash) | <input type="checkbox"/> | CardBus* (32-bit) | <input type="checkbox"/> |
| PCI | <input checked="" type="checkbox"/> | USB | <input checked="" type="checkbox"/> |
| Mini-PCI | <input type="checkbox"/> | USB 2.0 | <input type="checkbox"/> |
| AMR | <input type="checkbox"/> | InfiniBand* | <input type="checkbox"/> |
| ACR | <input type="checkbox"/> | Bluetooth* | <input type="checkbox"/> |
| COM (Serial) | <input type="checkbox"/> | | |
| Integrated Components | | | |
| | Check all that Apply | | Check all that Apply |
| Audio | <input type="checkbox"/> | Display | <input checked="" type="checkbox"/> |
| IDE | <input checked="" type="checkbox"/> | Networking | <input checked="" type="checkbox"/> |
| SCSI | <input type="checkbox"/> | RAID | <input type="checkbox"/> |
| Modem | <input type="checkbox"/> | Bluetooth | <input type="checkbox"/> |

Onboard Integrated Devices and Drivers

Data in this section reflects system configuration at time of WLP submission. The latest drivers for the SAI2 server board is available for download at:

<http://support.intel.com/support/motherboards/server/SAI2/>

| Technology | OS | Version |
|--|------------------------|--|
| LAN Onboard Intel® PRO/100+ Server Ethernet Controller (Intel® 82559 Controller) | Windows NT* 4.0 | N/A - Not required for Server Submission |
| | Windows* 2000 | 5.4.11 |
| | Windows .NET | N/A |
| Display ATI* Rage* XL VGA PCI Graphics | Windows NT 4.0 | N/A - Not required for Server Submission |
| | Windows 2000 | Driver included in Windows 2000 OS |
| | 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 | SAI2 | |
| Supported Platforms | | |
| | Check Tested | Comments |
| Windows* 2000 Professional | <input type="checkbox"/> | |
| Windows 2000 Server | <input checked="" type="checkbox"/> | |
| Windows 2000 Advanced Server | <input checked="" type="checkbox"/> | |
| Windows 2000 Datacenter Server | <input type="checkbox"/> | |

Hardware Compatibility Tests Used (HCT)

Microsoft website: <http://www.microsoft.com/hwtest/testkits/download.asp>. Please check regularly for test kit updates.

| Operating Systems | Notes | HCT |
|-------------------|--|---|
| 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 |
| | Contents of the HCT 9.5 Test Kit http://www.microsoft.com/hwtest/search/details.asp?ID=231 | HCT 9.5 Test Kit (140 MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/hct19991122.exe |

Errata and Contingencies

Microsoft HCT Errata website:

<http://www.microsoft.com/hwtest/search/results.asp?Type=Err&Key=System&Sort=Title>

| Operating System | Identification Number | Title |
|------------------|-----------------------|---|
| Windows* 2000 | 213 | PNP Enable/Disable Test Issue |
| Windows 2000 | 298 | PCI Power Management Register Interface Test: False Failure |
| Windows 2000 | 418 | ACPI Pre-OS tests are not required for system submissions |

SAI2 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 SAI2 Submission

Data in this section reflects product data and test exceptions listed in section 2 of the SAI2 Readme file at time of WLP submission.

| 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 Interface | |
| 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 <<< FAILED 4.4.2 >>> PowerState field in PMCSR register is not writable. | |

Additional Information

Data in this section reflects product data and additional information entered in section 3 of the SAI2 Readme file at time of WLP submission.

- FullDuplex Test not required for server submissions if no audio device is implemented. The SAI2 server does not have an audio device implemented. FullDuplex Test was not run.
- DSound Driver Test not required for server submissions if no audio device is implemented. The SAI2 server does not have an audio device implemented. DSound Driver Test was not run.