intel®

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	☑	First run for Product launch
Board HW update	☐	ECO # or PCN change
BIOS/Firmware update	☐	Updated BIOS or Firmware version
OS update	☐	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

Contents

Introduction

This report provides an overview of the testing conducted on the product 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
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	☑	Required for first time product submissions
Update Hardware and Driver Test Submission	☐	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	☑	Supports 4GB or more of memory
Requires Custom HAL (Hardware Abstraction Layer)	☐	
Features (optional)		
	Check all Support Features	**Comments**
Legacy free	☐	
Closed Box	☐	
Slim Line/Space Saver	☐	
Quiet Operation	☐	

Characterization (optional)		
	Check appropriate options	**Comments**
Gaming Machine	☐	
Terminal Server Client	☐	
Digital/Video Editing Workstation	☐	
CAD/Graphic Design Workstation	☐	
Web Server	☑	
SQL Database Server	☑	
File Server	☑	

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	☑	AGP*	☐
1394	☐	PCCard* (16-bit)	☐
CF (Compact Flash)	☐	CardBus* (32-bit)	☐
PCI	☑	USB	☑
Mini-PCI	☐	USB 2.0	☐
AMR	☐	InfiniBand*	☐
ACR	☐	Bluetooth*	☐
COM (Serial)	☐		

Integrated Components			
	Check all that Apply		**Check all that Apply**
Audio	☐	Display	☑
IDE	☑	Networking	☑
SCSI	☐	RAID	☐
Modem	☐	Bluetooth	☐

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	☐	
Windows 2000 Server	☑	
Windows 2000 Advanced Server	☑	
Windows 2000 Datacenter Server	☐	

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.