



**Server WHQL Testing Services
Enterprise Platforms and Services Division**

Intel® Server Board S5400SF

Intel® Server System SR1560SFHS-SAS

Server Test Submission (STS) Report For the Microsoft® Windows® Logo Program (WLP)

Rev 1.1

May 20, 2008

This report describes the Intel® SR1560SFHS-SAS Server System Windows* Logo Program test run conducted by Intel Enterprise Platforms and Services Division (EPSD).

Purpose of this WLP Submission (Submission ID: 1274498):

System First Time submission for the Microsoft* Designed for Windows Logo submission for the Intel® Server Board S5400SF and Intel® Server System SR1560SFHS-SAS.

Submission Type:	Reason for test run	Check one
First Time Submission	Initial Microsoft Designed for Windows logo submission. New product submission.	<input checked="" type="checkbox"/>
System Update	Hardware update. (For example, update submission test run with new processor speeds.)	<input type="checkbox"/>
BIOS Update	BIOS and/or Firmware update. (For example, update submission test run with new BIOS to support additional processor speeds.)	<input type="checkbox"/>
OS Update	OS update. (For example, update submission test run to add Microsoft Designed for Windows Server 2003 logo to product.)	<input type="checkbox"/>

Revision History and Disclaimers

Revision History		
Revision	Date	Comments
1.0	12/17/2007	Internal draft of the STS Report for Windows Server 2003 Submission for Intel® Server System SR1560SFHS-SAS.
1.1	05/20/2008	Changed document title to show Intel® Server Board S5400SF

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Introduction

This report provides an overview of the testing conducted on the Intel® Server System SR1560SFHS-SAS 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
DTM	All DTM tests used during testing
Errata and Contingencies	All Microsoft* errata or contingencies used during testing

Terms and Definitions

Term	Definitions
EPSD	Enterprise Platforms and Services Division
HCL	Windows Hardware Compatibility List. Changed to Windows Server Catalogue. You can view the catalogue at: http://www.microsoft.com/windows/catalog/server/
DTM	Driver Test manager. For latest Server DTM tests visit: http://www.microsoft.com/whdc/hwtest/system/default.aspx
STS	Server Test Submission Report published by EPSD
WHDC	Windows* Hardware and Driver Central. Provides technical information, development and testing kits, newsletters and support information. http://www.microsoft.com/whdc/default.aspx
WHOS	Windows Hardware Online Service – Secure online web site used to submit products for logo qualification and review submission history. https://winqual.microsoft.com/
WHQL	Windows* Hardware Qualification Lab. For more information visit the WHDC home page at: http://www.microsoft.com/whdc/whql/default.aspx
WLP	Windows Logo Program. For further information see: http://www.microsoft.com/whdc/winlogo/default.aspx
WTS	Workstation Test Submission Report published by EPSD

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	1274498	
Submission Type		
	Check Submission Type	Comments
First-Time Hardware and Driver Test Submission	<input checked="" type="checkbox"/>	
System Update Test Submission	<input type="checkbox"/>	
Product Category		
Hardware Category	PC System or Server	
Operating System family	Windows Server 2003 (32 & 64 Bit)	
Product Detail		
General Product Information		
Equipment Type	Server	
Primary Target Market	Business/Corporate	
Compliance	All applicable requirements	
Characterization (optional)		
	Check appropriate options	Comments
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 (physical processors installed)
Front Side Bus Speed	1333 MHz / 1600 MHz
Family/Model	Intel® Xeon® Quad-core and Dual-Core processors
Speed	
System Memory	
Amount Installed	64 GB
Memory Type	FB DIMM DDR2-667 / DDR2-800 (4 GB FBDIMMs, ECC)
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: D87491-402
Board Manufacturer	Intel Corporation
Board Model	Intel® Server Board S5400SF
Northbridge* Chipset Manufacturer	Intel Corporation
Northbridge Chipset Model	Intel® 5400 Memory Controller Hub
Southbridge* Chipset Manufacturer	Intel Corporation
Southbridge Chipset Model	Intel® 6321ESB I/O Controller
BIOS	
BIOS Manufacturer	AMI*
BIOS Version	S5400.86B.06.00.0023
BIOS Date	12/11/2007
BIOS URL (For Updates)	http://support.intel.com/support/motherboards/server/S5400SF/

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 type="checkbox"/>
Mini-PCI	<input type="checkbox"/>	USB 2.0	<input checked="" type="checkbox"/>
AMR	<input type="checkbox"/>	InfiniBand*	<input type="checkbox"/>
ACR	<input type="checkbox"/>	Bluetooth*	<input type="checkbox"/>
COM (Serial)	<input checked="" type="checkbox"/>	PCI Express	<input checked="" 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 checked="" type="checkbox"/>	RAID	<input checked="" type="checkbox"/>
Modem	<input type="checkbox"/>	Bluetooth*	<input type="checkbox"/>

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 System SR1560SFHS-SAS are available for download at:

<http://support.intel.com/support/motherboards/server/S5400SF/>

Technology	OS	Version
Intel® S5400/ESB2-E Chipset The chipset contains two main components: the Memory Controller Hub (MCH) for the host bridge and the I/O controller hub for the I/O sub-system. The chipset uses the Enterprise South Bridge (ESB2-E) for the I/O controller hub.	Windows Server 2003 Windows Server 2003 – 64Bit	8.5.0.1009 8.5.0.1009
Embedded LSI 1064e SAS RAID Controller	Windows Server 2003 Windows Server 2003 – 64Bit	9.21.0914.2007 9.21.0914.2007
Embedded SATA (ESB2-E) Controller Legacy (Enhanced) mode	Windows Server 2003 Windows Server 2003 – 64Bit	OS Embedded OS Embedded
LAN 2 X Intel PRO/1000-EB Server Network Connection Supports 10/100/1000 and I/O Accelerated Technology (Intel 82563GB Controller)	Windows Server 2003 Windows Server 2003 – 64Bit	9.10.8.0 (Pkg 12.3) 9.10.8.0 (Pkg 12.3)

<p>I/O Accelerated Technology</p>	<p>Windows Server 2003 Windows Server 2003 – 64Bit</p>	<p>1.2.78.6 1.2.78.6</p>
<p>Display ATI* ES1000 SVGA PCI video controller with 16 MB of video memory</p>	<p>Windows Server 2003 Windows Server 2003 – 64Bit</p>	<p>8.24.3.-38923 8.24.3.-38923</p>
<p>Intel® ESG-SHV backplane (Null driver)</p>	<p>Windows Server 2003 Windows Server 2003 – 64Bit</p>	<p>5.00.6262.1 5.00.6262.1</p>

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 S5400SF	
Additional Product Names	Intel® Server System SR1560SFHS-SAS	
Supported Platforms		
	Check Tested	Comments
Windows Server 2003, Web Edition	☑	
Windows Server 2003, Standard Edition	☑	
Windows Server 2003, Enterprise Edition	☑	
Windows Server 2003, Enterprise Edition 64 Bit	☑	

Hardware Compatibility Tests Used

Microsoft* Windows Hardware Driver Central Server Testing Home Page:

<http://www.microsoft.com/whdc/hwtest/system/default.mspx>.

Please check this website regularly for test kit updates.

Operating Systems	Notes	Hardware Compatibility Tests (HCT)
Windows Server 2003	DTM 1.0.c Test Procedures and Readme files for Windows XP SP1 and Windows Server 2003 (4.95MB) http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725	DTM 1.0.c (Windows XP SP1 and Windows Server 2003) Test Kit (4.95MB) http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=724
	Logo'd Components Index Full Install	Logo'd Components Index Full Install (~9.8 MB) http://download.microsoft.com/download/whistler/Installation/20.0/W982KMeXP/EN-US/logoidx.exe

Errata and Contingencies

Microsoft* System DTM Errata list is available at:

<http://www.microsoft.com/whdc/hwtest/search/results.aspx?type=errata&key=system&kit=-1>

Operating System	Identification Number	Title
Windows Server 2003		<i>No errata applied to this submission</i>

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 System SR1560SFHS-SAS Windows Server 2003

Data in this section reflects product data and test exceptions listed in section 2 of the Intel® Server System SR1560SFHS-SAS Readme file at time of WLP First-Time submission ID Number **1274498**.

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows Server 2003 EE x86		
Failing test name		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)		
Additional information (for example, test system in a multiple system configuration)		

Testing Exceptions for Intel® Server System SR1560SFHS-SAS Windows Server 2003 64 Bit

Data in this section reflects product data and test exceptions listed in section 2 of the Intel® Server System SR1560SFHS-SAS Readme file at time of WLP First-Time submission ID Number **1274498**.

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows Server 2003 EE x64		
Failing test name		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)		
Additional information (for example, test system in a multiple system configuration)		

Additional Information

No additional information entered in section 3 of the Intel® Server System SR1560SFHS-SAS Readme file at time of WLP submission ID 1274498.

Appendix A – Submission History

Microsoft “Designed for Windows*” logo submission history for the Intel® Server System SR1560SFHS-SAS:

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1274498	First-Time	12/17/07	Windows 2003 EE SP2 - 32 & 64 Bit		402	S5400.86B.06.00.23 11/11/2007