Server WHQL Testing Services

Enterprise Platforms and Services Division

Intel® Workstation board S5520SC

Server Test Submission (STS) Report

For the Microsoft® Windows® Logo Program (WLP)

Rev 1.0

February 24, 2010

This report describes the Intel® Workstation board S5520SC Windows* Logo Program test run conducted by Intel Enterprise Platforms and Services Division (EPSD).

Purpose of this WLP Submission:

System First Time submission for the Microsoft* Designed for Windows* Logo submission for the Intel® Workstation Board S5520SC in an SATA AHCI configuration.

Windows* Serve 2008 R2 & sp2 Submission Logo ID: 1391730

Submission Type:	Reason for test run	Check one
First Time Submission	Initial Microsoft Designed for Windows* logo submission. New product submission.	☑
System Update	Hardware update. (For example, update submission test run with new processor speeds.)	☐
BIOS Update	BIOS and/or Firmware update. (For example, update submission test run with new BIOS to support additional processor speeds.)	☐
OS Update	OS update. (For example, update submission test run to add Microsoft Designed for Windows* Vista logo to product.)	☐

Revision History and Disclaimers

Revision History		
Revision	**Date**	**Comments**
1.0	2/24/2010	Internal draft of the STS Report for Windows* 2008 R2 x64, Windows 2008 sp2 x64&x86 Submission for Intel® Workstation Board S5520SC.

Contents

Introduction

This report provides an overview of the testing conducted on the Intel® Workstation board S5520SC 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/workstation 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.mspx
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.mspx
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.mspx
WLP	Windows* Logo Program. For further information see: http://www.microsoft.com/whdc/winlogo/default.mspx
WTS	Workstation Test Submission Report published by EPSD

Workstation board Submission Information

Intel workstation 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	**1391730**	
Submission Type		
	Check Submission Type	**Comments**
First-Time Hardware and Driver Test Submission	☑	
System Update Test Submission	☐	
Product Category		
Hardware Category	PC System or Server	
Operating System family	Windows* Server 2008R2 x64 family Windows* Server 2008sp2 x64 family Windows* Server 2008sp2 x86 family	
Product Detail		
General Product Information		
Equipment Type	Workstation	
Primary Target Market	Business/Corporate	
Compliance	All applicable requirements	
Characterization (optional)		
	Check appropriate options	**Comments**
Web Server	☑	
SQL Database Server	☑	
File Server	☑	

Workstation board Configuration Information

Processor	
Quantity	2 (physical processors installed)
Front Side Bus Speed	6.40 GT/s (Gigatransfers per sec)
Family/Model	Intel® Xeon Quad-core Processor 5500 series
Speed	1.86, 2.00, 2.13, 2.26, 2.53, 2.66, 2.80, 2.93 and 3.33 GHz
System Memory	
Amount Installed	96 GB
Memory Type	DDR3
Power Management	
ACPI Sleep States (S1, S2, S3, S4)	S1, S3, S4
Workstation 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: E30682-351
Board Manufacturer	Intel Corporation
Board Model	Intel® Workstation board S5520SC
Northbridge* Chipset Manufacturer	Intel Corporation
Northbridge Chipset Model	Intel® 5520 I/O Hub (IOH)
Southbridge* Chipset Manufacturer	Intel Corporation
Southbridge Chipset Model	Intel® AF82801JIR I/O Controller Hub (ICHI0R)
BIOS	
BIOS Manufacturer	Intel Corporation
BIOS Version	S5500.86B.01.00.0047.012520101009
BIOS Date	1/25/2010
BIOS URL (For Updates)	http://www.intel.com/support/motherboards/server/s5520sc/index.htm

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)	☑	PCI Express	☑
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 the time of WLP submission. The latest drivers for the Intel® Workstation board S5520SC are available for download at:

http://support.intel.com/support/motherboards/server/S5520SC

Technology	OS	Version
Intel® S5520 IOH Chipset The chipset contains 36 PCI-E 2.0 lanes to accommodate IO throughput for the system.	**Windows* Server 2008 R2 x64** **Windows* Server 2008 sp2 x86**	9.1.1.1019 9.1.1.1019
LAN Intel® 82575EB Server Network Connection Supports 10/100/1000	**Windows* Server 2008 R2 x64** **Windows* Server 2008 sp2 x86**	Pkg 14.7 Pkg 14.7

Note: Windows Server 2008 sp2 x64 can be covered by Windows Server 2008 R2 x64 certification and NO independent certification was required.

Product Data for HCL: Completion of WLP

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

Workstation board Submission Information

Product Data	
Product Name	Intel® Workstation board S5520SC
Additional Product Names	Intel® Server Chassis SC5600LX
	Intel® Server Chassis SC5600BRP
	Intel® Server Chassis SC5600BASE
	Intel® Server Chassis SC5650DP
	Intel® Server Chassis SC5650BRP
Supported Platforms		
	Check Tested	**Comments**
Windows* Server 2003 family	☐	
Windows* Server 2003 x64 family	☐	
Windows* Vista family	☐	
Windows* Vista x64 family	☐	
Windows* Server 2008 R2 x64 family	☑	
Windows* Server 2008 sp2 x64 family	☑	
Windows* Server 2008 sp2 x86 family	☑	

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 1.4 Test Procedures for Systems, Servers and Cluster Servers (Windows* 2000) http://download.microsoft.com/download/whistler/Docs/Docs/W982KMeXP/EN-US/HCT9502_Systems.exe	DTM 1.4 Test Kit (Windows* 2000) 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
	391 NDIS Intermediate Drivers Instructions http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe	Beta NDIS Test Update (ndt391.exe) (2MB) http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt391.exe
	386 NDIS Intermediate Drivers Instructions http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe	NDIS Test Update for Windows* 98 SE, Windows* Me, and Windows* 2000 (ndt386.exe) (2.02MB) http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt386.exe
Windows* Vista	DTM 1.4 Test Procedures and Readme files for Windows* Server 2003 and Windows* Vista http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725	DTM 1.4 Test Kit 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/Install/20.0/W982KMeXP/EN-US/logoidx.exe

Errata and Contingencies

Microsoft* System DTM Errata list is available at:

https://winqual.microsoft.com/EC/

Operating System	Identification Number	Title
Windows* Sever 2008 R2 x64		*See Testing Exceptions section below*
Windows* Sever 2008 sp2 x86		*See Testing Exceptions section below*
Windows* Sever 2008 sp2 x64		*See Testing Exceptions section below*

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://www.microsoft.com/whdc/winlogo/WLK/default.mspx

Testing Exceptions for S5520SC Windows* Server 2008 R2 x64

Data in this section reflects product data and test exceptions listed in section 2 of the S5520SC Readme file at time of WLP First-Time submission ID Number **1391730**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows* Server 2008 R2 x64	*None*	*None*
Failing test name	*None*	
Applicable error message (Type **N/A** if the error message or failing text is excessive or if there is no text)	*None*	
Additional information (for example, test system in a multiple system configuration)	*no errata included with this submission*	

Testing Exceptions for S5520SC Windows* Server 2008 sp2 x86

Data in this section reflects product data and test exceptions listed in section 2 of the S5520SC Readme file at time of WLP First-Time submission ID Number **1391730**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows* Server 2008 sp2 x86	*None*	*None*
Failing test name	*None*	
Applicable error message (Type **N/A** if the error message or failing text is excessive or if there is no text)	*None*	
Additional information (for example, test system in a multiple system configuration)	*no errata included with this submission*	

Testing Exceptions for S5520SC Windows* Server 2008 sp2 x64

Data in this section reflects product data and test exceptions listed in section 2 of the S5520SC Readme file at time of WLP First-Time submission ID Number **1391730**.

Operating system (Windows* XP, Windows* 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows* Server 2008 sp2 x64	*None*	*None*

Errata and Contingencies

Failing test name	*None*
Applicable error message (Type **N/A** if the error message or failing text is excessive or if there is no text)	*None*
Additional information (for example, test system in a multiple system configuration)	*no errata included with this submission*

Additional Information

No additional information entered in section 3 of the S5520SC Submission Readme file at time of WLP submission ID 1391730.

Appendix A – Submission History

Microsoft "Designed for Windows*" logo submission history for the Intel® Workstation board S5520SC

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1391730	First-Time	2/24/2010	Windows* Server 2008 R2 x64, Server 2008 SP2 x64, Server 2008 SP2 x86	1.86, 2.00, 2.13, 2.26, 2.53, 2.66, 2.80, 2.93 and 3.33 GHz	351	S5500.86B.01.00.0047.012520101009