

Server WHQL Testing Services Enterprise Platforms and Services Division

Intel® Workstation Board S5000XVNSATAR

Server Test Submission (STS) Report

For the Microsoft® Windows® Logo Program (WLP)

Rev 1.1

October 5, 2007

This report describes the Intel[®] Workstation Board S5000XVNSATAR 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 XP Professional x86 Logo submission for the Intel[®] Workstation Board S5000XVNSATAR

Submission Type:	Reason for test run	Check one
First Time Submission	Initial Microsoft Designed for Windows logo submission. New product submission.	\sqrt
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 Server 2003 logo to product.)	

Revision History and Disclaimers

Revision History			
Revision	Date	Comments	
1.0	9/19/2007	STS Report for Windows XP Professional x86 Submission for Intel [®] Workstation Board S5000XVNSATAR.	
1.1	10/5/2007	Correction to OS version on pages 1 and 3	

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Introduction S5000XVNSATAR

Introduction

This report provides an overview of the testing conducted on the Intel® Workstation Board S5000XVNSATAR 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 Workstation 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
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/
нст	Hardware Compatibility Tests. For latest Server HCTs 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	1264092		
Submission Type			
	Check Submission Type	Comments	
First-Time Hardware and Driver Test Submission	V		
System Update Test Submission			
Product Category			
Hardware Category	Server		
Operating System family	Windows XP Professional (x86)		
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	\square		
SQL Database Server	✓		
File Server	\checkmark		

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Workstation Board Configuration Information

Processor		
Quantity	2 (physical processors installed)	
Front Side Bus Speed	1333 MHz	
Family/Model	Dual-Core Intel [®] Xeon [®] processors	
Speed	1.60, 1.86, 2.00, 2.33, 2.66, 3.00, 3.20, and 3.73 GHz	
System Memory		
Amount Installed	512 MB	
Memory Type	FB DDR2-533 (2 GB FBDIMMs, ECC)	
Power Management		
ACPI Sleep States (S1, S2, S3, S4)	S1, S3, S4	
Workstation Board Product		
System uses logo'd motherboard	NO (Workstation Boards are NOT eligible for logo under the Microsoft* Motherboard logo program)	
Board AA #/Fab	PBA: E11030-100	
Board Manufacturer	Intel Corporation	
Board Model	Intel® Workstation Board S5000XVNSATAR	
Northbridge* Chipset Manufacturer	Intel Corporation	
Northbridge Chipset Model	Intel® 5000X Memory Controller Hub	
Southbridge* Chipset Manufacturer	Intel Corporation	
Southbridge Chipset Model	Intel [®] ESB2-E I/O Controller	
BIOS		
BIOS Manufacturer	AMI*	
BIOS Version	S5000.86B.10.00.0081	
BIOS Date	8/17/2007	
BIOS URL (For Updates)	http://support.intel.com/support/motherboards/server/s5000xvn/index.htm.	

Bus Types			
	Check all that Apply		Check all that Apply
PS/2	\checkmark	AGP*	
1394		PCCard* (16-bit)	
CF (Compact Flash)		CardBus* (32-bit)	
PCI	\checkmark	USB	
Mini-PCI		USB 2.0	\checkmark
AMR		InfiniBand*	
ACR		Bluetooth*	
COM (Serial)	\checkmark	PCI Express	\checkmark
Integrated Components			
	Check all that Apply		Check all that Apply
Audio	\checkmark	Display	
IDE	\checkmark	Networking	\checkmark
SCSI	I	RAID	\checkmark
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 S5000XVNSATAR are available for download at: http://support.intel.com/support/motherboards/server/s5000xvn/index.htm

Technology	os	Version
Intel® S5000/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 XP Professional	8.2.0.1008
Embedded SATA RAID (ESB2-E) Controller SW RAID mode	Windows XP Professional	7.15.209.2007
LAN 2 X Intel PRO/1000-EB Server Network Connection Supports 10/100/1000 and I/O Accelerated Technology (Intel 82563GB Controller)	Windows XP Professional	9. 9.13.0
I/O Accelerated Technology	Windows XP Professional	1.2.74.4

Display (Add-in) ASUS* EAX1300HM512 VGA PCI-e video controller	Windows XP Professional	8.401.0.0
Trusted Platform Module	Windows XP Professional	1.0.4.14
Intel® ESG-SHV backplane (Null driver)	Windows XP Professional	5.00.6055.2

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® Workstation Board S5000XVNSATAR	
Additional Product Names		
Supported Platforms		
	Check Tested	Comments
Windows 2000 Server		
Windows 2000 Advanced Server		
Windows Server 2003, Web Edition		
Windows Server 2003, Standard Edition		
Windows Server 2003, Enterprise Edition		
Windows Server 2003, Enterprise Edition 64 Bit		
Windows XP Professional	V	
Windows XP Professional 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* 2000	DTM 1.0.c Test Procedures for Systems, Servers and Cluster Servers (Windows 2000)	DTM 1.0.c Test Kit (Windows 2000) (35.4 MB)
	http://download.microsoft.com/download/whistler/ Docs/Docs/W982KMeXP/EN- US/HCT9502_Systems.exe	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/Instal I/20.0/W982KMeXP/EN-US/logoidx.exe
	391 NDIS Intermediate Drivers Instructions	Beta NDIS Test Update (ndt391.exe) (2MB)
	http://download.microsoft.com/download/whistler/ Install/20.1/W982KMeXP/EN- US/NDISIntermedDriver.exe	http://download.microsoft.com/download/whistler/Instal I/12.2/W982KMeXP/EN-US/ndt391.exe
	386 NDIS Intermediate Drivers Instructions	NDIS Test Update for Windows 98 SE, Windows Me, and Windows 2000 (ndt386.exe) (2.02MB)
	http://download.microsoft.com/download/whistler/ Install/20.1/W982KMeXP/EN- US/NDISIntermedDriver.exe	http://download.microsoft.com/download/whistler/Instal I/12.2/W982KMeXP/EN-US/ndt386.exe
Windows Server 2003 &	HCT 12.1.01 Test Procedures and Readme files for Windows XP SP2 and Windows Server 2003 (4.95MB)	HCT 12.1.01 (Windows XP SP2 and Windows Server 2003) Test Kit (4.95MB)
Windows XP	http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725	http://www.microsoft.com/whdc/hwtest/search/details.a spx?ID=724
	Logo'd Components Index Full Install	Logo'd Components Index Full Install (~9.8 MB)
		http://download.microsoft.com/download/whistler/Instal I/20.0/W982KMeXP/EN-US/logoidx.exe

Errata and Contingencies

Microsoft* System HCT 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 XP	533	UAA Test – Legacy
Professional		Specific codecs do not correctly support Input Enable and Output Enable pin widget controls
Windows XP	583	UAA Test – Legacy
Professional		The UAA Test incorrectly checks Output Capable when testing VRef validation
Windows XP	534	UAA Test – Legacy
Professional		UAA Test requires the Traffic Priority bit to be read/write – however there are two specs that apply, and they conflict.

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 S5000XVNSATAR Windows XP Professional 32-bit

Data in this section reflects product data and test exceptions listed in section 2 of the S5000XVNSATAR Readme file at time of WLP First-Time submission ID Number **1264092**

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number	
Windows XP Professional	Errata	533	
Failing test name	UAA Test – Legacy		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	Specific codecs do not correctly support Input Enable and Output Enable pin widget controls		
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 XP Professional	Errata	583	
Failing test name	UAA Test – Legacy		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	The UAA Test incorrectly checks Output Capable when testing VRef validation		
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 Server 2003 x64	Errata 534		
Failing test name	UAA Test – Legacy		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	UAA Test requires the Traffic Priority bit to be read/write – however there are two specs that apply, and they conflict.		
Additional information (for example, test system in a multiple system configuration)			

Additional Information

No additional information entered in section 3 of the S5000XVNSATAR Readme file at time of WLP submission ID **1264092.**

Appendix A – Submission History

Microsoft "Designed for Windows*" logo submission history for the ${\rm Intel}^{\circledR}$ Workstation Board S5000XVNSATAR:

Submission ID	Туре	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1264309	First-time	9/17/2007	Windows XP Professional x86	1.60, 1.86, 2.00, 2.33, 2.66, 3.00, 3.20, and 3.73 GHz	100	S5000.86B10.00.0081 8/17/2007