



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.	<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	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

This report provides an overview of the testing conducted on the Intel® Workstation Board S5000XVNSATAR 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 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
EPD	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/
HCT	Hardware Compatibility Tests. For latest Server HCTs visit: http://www.microsoft.com/whdc/hwtest/system/default.aspx
STS	Server Test Submission Report published by EPD
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 EPD

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	<input checked="" type="checkbox"/>	
System Update Test Submission	<input type="checkbox"/>	
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	<input checked="" type="checkbox"/>	
SQL Database Server	<input checked="" type="checkbox"/>	
File Server	<input checked="" type="checkbox"/>	

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 <u>NOT</u> 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	<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 checked="" type="checkbox"/>	Display	<input 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® 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	<input type="checkbox"/>	
Windows 2000 Advanced Server	<input type="checkbox"/>	
Windows Server 2003, Web Edition	<input type="checkbox"/>	
Windows Server 2003, Standard Edition	<input type="checkbox"/>	
Windows Server 2003, Enterprise Edition	<input type="checkbox"/>	
Windows Server 2003, Enterprise Edition 64 Bit	<input type="checkbox"/>	
Windows XP Professional	<input checked="" type="checkbox"/>	
Windows XP Professional 64 Bit	<input type="checkbox"/>	

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) http://download.microsoft.com/download/whistler/Docs/Docs/W982KMeXP/EN-US/HCT9502_Systems.exe	DTM 1.0.c Test Kit (Windows 2000) (35.4 MB) 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 Server 2003 & Windows XP	HCT 12.1.01 Test Procedures and Readme files for Windows XP SP2 and Windows Server 2003 (4.95MB) http://www.microsoft.com/whdc/hwtest/search/details.aspx?ID=725	HCT 12.1.01 (Windows XP SP2 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/Install/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 Professional	533	UAA Test – Legacy Specific codecs do not correctly support Input Enable and Output Enable pin widget controls
Windows XP Professional	583	UAA Test – Legacy The UAA Test incorrectly checks Output Capable when testing VRef validation
Windows XP Professional	534	UAA Test – Legacy 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 Intel® Workstation Board S5000XVNSATAR:

Submission ID	Type	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