

Server WHQL Testing Services

Enterprise Platforms and Services Division

Intel® Server SE7320VP2D2

Server Test Submission (STS) Report

For the Microsoft® Windows® Logo Program (WLP)

Rev 1.1

July 15, 2005

This report describes the Intel® SE7320VP2D2 Server Platform 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® Server Board SE7320VP2D2.

Submission Type:	Reason for test run	Check one
First Time Submission	Initial Microsoft Designed for Windows logo submission. New product submission.	V
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	Revision Date Comments			
1.0	5/07/2005	Internal draft of the STS Report for Windows Server 2003 & Windows 2000 WLP Submission for Intel® Server Board SE7320VP2D2.		
1.1	1.1 7/15/2005 Added 64 Bit Windows 2003 Server EE			

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Introduction

This report provides an overview of the testing conducted on the Intel® Server Board SE7320VP2D2 without RAID enabled 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 Wincluding 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. You can view the HCL at: http://www.microsoft.com/whdc/hcl/search.mspx
HCT	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/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

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	1002266			
Submission Type	Submission Type			
	Check Submission Type	Comments		
First-Time Hardware and Driver Test Submission	$\overline{\mathbf{C}}$			
System Update Test Submission				
Product Category				
Hardware Category	PC System or Server			
Operating System family	Windows Server 2003 (32 & 64 Bit	and Windows 2000 families		
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	\checkmark			
SQL Database Server	V			
File Server	\square			

Server Board Configuration Information

Processor		
Quantity	2 (physical processors installed)	
Front Side Bus Speed	800 MHz	
Family/Model	Intel® Xeon processors	
Speed	2.8MHz, 3.0MHz, 3.2MHz, 3.4MHz, 3.6MHz	
System Memory		
Amount Installed	12 GB	
Memory Type	DDRII (6 DIMMs) ECC memory	
Power Management		
ACPI Sleep States (S1, S2, S3, S4)	S1, S4	
Server Board Product		
System uses logo'd motherboard	NO (Server boards are NOT eligible for logo under the Microsoft* Motherboard logo program)	
Board AA #/Fab	201 (QSV251500056 PBA-D10582-201)	
Board Manufacturer	Intel Corporation	
Board Model	Intel® Server Board SE7320VP2D2	
Northbridge* Chipset Manufacturer	Intel Corporation	
Northbridge Chipset Model	Intel E7320 Chipset	
Southbridge* Chipset Manufacturer	Intel Corporation	
Southbridge Chipset Model	Intel E7320 Chipset	
BIOS		
BIOS Manufacturer	AMI*	
BIOS Version	SE7320VP21.86B.P.04.0029.050320050917	
BIOS Date	5/3/2005	
BIOS URL (For Updates)	http://support.intel.com/support/motherboards/server/SE7320VP2/	

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	
AMR		InfiniBand*	
ACR		Bluetooth*	
COM (Serial)	\checkmark	PCI Express	
Integrated Components			
	Check all that Apply		Check all that Apply
Audio		Display	
IDE	\checkmark	Networking	
SCSI		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® Server Board SE7320VP2D2 are available for download at:

ttp://support.intel.com/support/motherboards/server/SE7320VP2D2/

Technology	os	Version
LAN Marvell 88E8050(Yukon-EC)Supports 10/100/1000	Windows Server 2003 64	V8.25.1.3
Intel 82541 1000MT Supports 10/100/1000	Windows Server 2003 64 Bit	V8.27.33
	Windows Server 2003	V8.4.21.0
	Windows Server 2003 64 Bit	V8.5.14.0
Display ATI* Rage* XL SVGA PCI video controller	Windows Server 2003	5.10.3663.6013
with 8 MB of video memory	Windows Server 2003 64 Bit	J5.30.10.3
Serial RAID ATA (ICH5-R)	Windows Server 2003	v.4.2.0318.2005
Contains two independent SATA signal ports that can be configured as either a RAID 1 or 0	Windows Server 2003 64 Bit	v.4.2.0318.2005

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 Boar	d SE7320VP2D2
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	\checkmark	
Windows Server 2003, Enterprise Edition	$\overline{\checkmark}$	
Windows Server 2003, Standard Edition 64 Bit	V	
Windows Server 2003, Enterprise Edition 64 Bit	\checkmark	

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	HCT 9.502 Test Procedures for Systems, Servers and Cluster Servers (Windows 2000)	HCT 9.502 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 l/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 l/12.2/W982KMeXP/EN-US/ndt386.exe
Windows Server 2003	HCT 12.1 Test Procedures and Readme files for Windows XP SP1 and Windows Server 2003 (4.95MB)	HCT 12.1 (Windows XP SP1 and Windows Server 2003) Test Kit (4.95MB)
	http://www.microsoft.com/whdc/devtools/HCT12.mspx	http://www.microsoft.com/whdc/devtools/HCT12.mspx

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* 2000	298	PCI Power Management Register Interface Test: False Failure
Windows 2000	372	ACPI System test fails systems that support ACPI table version 1.0 or greater
Windows Server 2003	610	Intel ICHx Contingency
Windows 2000	702	Audio tests are not required for servers that do not implement audio devices
Windows 2000	719	DVD test cannot be run on systems without a DVD drive
Windows 2000	722	PCI 2.2 Compliance test and PCI 2.1 (Cards) test might fail test systems with ATA/ATAPI controllers
Windows Server 2003	772	LAN Device Wake test is not required on network devices in mobile systems, multifunction, broadband, LAN emulation, wireless LAN, server LAN, or bus-powered USB network devices
Windows 2000	826	PCI 2.1 Compliance test, PCI 2.1 Cards test, PCI 2.2 Compliance test, and CardBus Bridge Register test fail on devices that are PCI 2.3-compliant
Windows Server 2003	860	Enable/Disable – Device I/O test fails on USB 2.0 host controllers
Windows Server 2003	901	The ACPI Verifier test fails the E820 table when the system memory controller is a child of the PCI Bus
Windows Server 2003	1012	Enable/Disable - Device I/O test false-fails because of LPT port errors
Windows 2000	1182	ACPI Sleep test conflicts with Windows 2000 Service Pack 4

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/devtools/HCT12-1readme.mspx

Testing Exceptions for Intel® Server SE7320VP2D2 Windows 2000 Submission

Windows 2000 logs are no longer required after November 1, 2004. When a blank readme.doc is submitted with a qualifying Windows 2003, Windows 2000 will be granted a "Supported' status.

Testing Exceptions for Intel® Server SE7320VP2D2 Windows Server 2003

Data in this section reflects product data and test exceptions listed in section 2 of the Intel® Server SE7320VP2D2 Readme file at time of WLP First-Time submission ID Number 974925.

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number	
Windows 2003 Enterprise Edition	Errata	772	
Failing test name	LAN Device Wake Up		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	ID=PCI\VEN_8086&DEV_25AA&SUBSYS_34508086&REV_02\3&267A616A&0&E9 Friendly Name=(null) DevDesc=Intel(R) 6300ESB USB Universal Host Controller - 25AA Test Interface=(null) PnP Interface=\\?\PCI#VEN_8086&DEV_25AA&SUBSYS_34508086&REV_02#3&267a616a&0 &E9#{3abf6f2d-71c4-462a-8a92-1e6861e6af27} TEST 3 :FAIL VARIATION 1:FAIL		
Additional information (for example, test system in a multiple system configuration)			

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)		
Windows 2003 Enterprise Edition	Errata 1306		
Failing test name	PCI Compliance		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	64C.650: DEVICE INFO: Intel(R) PRO/1000 MT Network Connection 64C.650: DEVICE INFO: PCI\VEN_8086&DEV_1076&SUBSYS_34508086&REV_05\4&3abfd0ac&0&18F0 64C.650: +TEST+SEV2: FAIL: - A PCI-X device that generates interrupts must have an MSI or MSI-X capability.		
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 2003 Enterprise Edition SP1	Contingency	781
Failing test name	PCI Compliance	

Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	64C.650: DEVICE INFO: Intel Embedded Server RAID Technology 64C.650: DEVICE INFO: PCI\VEN_8086&DEV_25B0&SUBSYS_34518086&REV_02\3&267a616a&0&FA 64C.650: +TEST+SEV2: FAIL: 4.55.3 - The Programming Interface in the Class Code register must be read only.
Additional information (for example, test system in a multiple system configuration)	

Additional Information:

Testing Exceptions for Intel® Server SE7320VP2D2 Windows Server 2003 64 Bit

Data in this section reflects product data and test exceptions listed in section 2 of the Intel® Server SE7320VP2D2 Readme file at time of WLP First-Time submission ID Number 995186.

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number	
Windows 2003 Server Enterprise Edition 64 Bit	Errata	1306	
Failing test name	PCI Compliance		
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	90C.910: +TEST+SEV2: FAIL: - A PCI-X device that generates interrupts must have an MSI or MSI-X capability.		
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 2003 Server Enterprise Edition 64 Bit	Errata	772	
Failing test name	Wake Device Server('Server-side Test')		
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)	Both onboard NICs are gigabit		

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number	
Windows 2003 Server Enterprise Edition 64 Bit	Errata	772	
Failing test name	LAN Device Wake		
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)	Both onboard NICs are gigabit		

Appendix A – Submission History

Microsoft "Designed for Windows*" logo submission history for the Intel® Server SE7320VP2D2:

Submission ID	Туре	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
974925	First-Time	5/07/2005	Windows 2003 Windows 2000 (Supported status only)	2.8MHz, 3.0MHz, 3.2MHz, 3.4MHz, 3.6MHz	Fab 201	P04 5/3/2005
1002266	First-Time	7/15/2005	Windows 2003 64 Bit Windows 2003 Windows 2000 (Supported status only)	2.8MHz, 3.0MHz, 3.2MHz, 3.4MHz, 3.6MHz	Fab 201	P04 5/3/2005