



Server WHQL Testing Services

Enterprise Platforms and Services Division

Intel® Workstation Board WX58BP

Workstation Test Submission (WTS) Report

For the Microsoft® Windows® Logo Program (WLP)

Rev 1.0

April 10, 2009

This report describes the Intel® Workstation Board WX58BP Windows* Logo Program test run conducted by Intel Enterprise Platforms and Services Division (EPSD).

Purpose of this WLP Submission:

It's the first time submission for the Microsoft* Designed for Windows Logo submission for the Intel® Workstation Board WX58BP.

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	<input type="checkbox"/>

	Designed for Windows Server 2003 logo to product.)	
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Revision History and Disclaimers

Revision History		
Revision	Date	Comments
1.0	4/10/2009	First draft of the WTS Report for Windows Vista Submission for Intel® Workstation Board WX58BP includes both 32 and 64 bits versions.

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Contents

Revision History and Disclaimers	2
Introduction	4
Overview of Contents.....	4
Terms and Definitions	4
Server Board Submission Information.....	5
Intel Server Board Submission Report: Completion of WLP.....	5
Submission Information	5
Submission ID.....	5
Submission Type	5
Product Category	5
Product Detail	5
General Product Information.....	5
Characterization (optional).....	5
Server Board Configuration Information	6
Processor.....	6
System Memory	6
Power Management.....	6
BIOS	6
Bus Types	7
Integrated Components	7
Onboard Integrated Devices and Drivers.....	7
Product Data for HCL: Completion of WLP.....	8
Product Data	8
Hardware Compatibility Tests Used.....	9
Errata and Contingencies.....	10
Submission Readme File	11
http://www.microsoft.com/whdc/whql/WHQLdwn.msp	11
Testing Exceptions for Intel® Workstation Board WX58BP Windows Server 2008.....	12
Appendix A – Submission History.....	13

Introduction

This report provides an overview of the testing conducted on the Intel® Workstation Board WX58BP by Intel 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. You can view the HCL at: http://www.microsoft.com/whdc/hcl/search.mspx
HCT	Hardware Compatibility Tests. 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

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	1323968	
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	System	
Operating System family	Windows Vista (32 & 64 Bit)	
Product Detail		
General Product Information		
Equipment Type	Workstation	
Primary Target Market	Business and Consumer	
Compliance	All applicable requirements	
Characterization (optional)		
	Check appropriate options	Comments
Web Server	<input type="checkbox"/>	
SQL Database Server	<input type="checkbox"/>	
File Server	<input type="checkbox"/>	

Server Board Configuration Information

Processor	
Quantity	1 (physical processor with support for either single, dual or Quad cores)
Front Side Bus Speed	1333 MHz
Family/Model	Intel Xeon processor
Speed	3.20GHz
System Memory	
Amount Installed	4 GB
Memory Type	DDR-3 1333MHz (4 DIMMs) ECC memory
Power Management	
ACPI Sleep States (S1, S2, S3, S4)	S1, S3, S4
Server Board Product	
System uses logo'd motherboard	Yes
Board AA #/Fab	100 (E64643-100)
Board Manufacturer	Intel Corporation
Board Model	Intel® Workstation Board WX58BP
Northbridge* Chipset Manufacturer	Intel Corporation
Northbridge Chipset Model	Intel X58 Chipset
Southbridge* Chipset Manufacturer	Intel Corporation
Southbridge Chipset Model	Intel ICH10R
BIOS	
BIOS Manufacturer	Intel Corporation.
BIOS Version	BPX5810J.86B.0012.2009.0331.1610
BIOS Date	3/31/2009

Bus Types			
	Check all that Apply		Check all that Apply
PS/2	<input type="checkbox"/>	AGP*	<input type="checkbox"/>
1394	<input checked="" 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 checked="" 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 type="checkbox"/>	Networking	<input checked="" type="checkbox"/>
SCSI	<input 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 WX58BP are available for download at:

<http://downloadcenter.intel.com/>

Technology	OS	Version
LAN Intel® PRO Network Connections	Windows Vista	9.52.20.0
	Windows Vista 64-bit	9.52.20.0
Audio Realtek	Windows Vista	6.0.1.5783
	Windows Vista 64-bit	6.0.1.5783
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	9.0.0.1005
	Windows Vista 64-bit	9.0.0.1005

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 WX58BP	
Additional Product Names		
Supported Platforms		
	Check Tested	Comments
Windows Vista, Ultimate with Service Pack 1, 32 Bit	<input checked="" type="checkbox"/>	
Windows Vista, Ultimate with Service Pack 1, 64 Bit	<input checked="" type="checkbox"/>	

Hardware Compatibility Tests Used

Microsoft* Windows Hardware Driver Central Server Testing Home Page:

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

Please check this website regularly for test kit updates.

Operating Systems	Notes	Driver test manager (DTM)
Windows Vista Windows Vista 64-bit	DTM for Windows Vista SP1 @ WLK1.2	DTM for Windows Vista SP1 @ WLK1.2

Errata and Contingencies

Operating System	Failing Test	Expiry date	ID Number	Type	Error Description
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT)	12/31/2009	1098	Erratum	Bit range 15:0 (Extended Capability ID) in the Enhanced Capability Header register (offset 0h) in the Unrecognized Enhanced Capability ID 13 table is Dh. It must be in the range [0x0 - 0xB] as all other Capability IDs are reserved.
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT)	12/31/2009	1150	Erratum	Assertion 3CDD17AF-215E-4921-894F-C99434A3B3CA Bit range 31:21 (Reserved_3) in the Uncorrectable Error Mask register (offset 8h) in the Advanced Error Reporting Capability table must be read-only and always return 0 . Assertion FF8BC1A1-79B5-480A-9439-BF81AEDF4183 Bit 13 (Flow Control Protocol Error Severity) in the Uncorrectable Error Severity register (offset Ch) in the Advanced Error Reporting Capability table must be read-only and always return 1 . It was found to return 0. Assertion 461CA4DE-9266-4420-9B5F-F33622A5D02B Bit range 31:21 (Reserved_3) in the Uncorrectable Error Severity register (offset Ch) in the Advanced Error Reporting Capability table must be read-only and always return 0 .
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT)	12/31/2009	385	Erratum	The following PCI Compliance test failure is acceptable: Bit 15 (Bridge Configuration Retry Enable) in the Device Control register (offset 8h) in the PCI Express Capability table must be read-only and always return 0 as it is reserved for devices other than PCI Express to PCI/PCI-X Bridges. Assertion 13A41D3E-2576-41DC-A67C-525DA3637CEA This failure is acceptable because this is a PCIe 1.1 feature and the WLP requires compliance with only PCIe 1.0a.
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT)	12/31/2009	1114	Erratum	Bit range 9:4 (Negotiated Link Width) in the Link Status register (offset 12h) in the PCI Express Capability table is 0h. It must be in the set of values {0x1, 0x2, 0x4, 0x8, 0xc, 0x10, 0x20}.
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT)	12/31/2009	474	Erratum	According to the PCI Express Base Specification, Rev 2.0 Section 7.8.8, this bit field is undefined when the link is not up. If there is not PCIe device behind the bridge, then the link can NOT be up and therefore the field is undefined. Bit 13 in the same register (Link Status) can be used to determine if the link is active (up). The PCIHCT uses the Presence Detect State bit of the Slot Status register to determine whether a child device is present. However, the Presence Detect State bit only returns valid data if the Slot Implemented bit is set (bit 8 of PCIe capabilities register). If the PCIe root port or downstream port will never have a device behind it, the Slot Implemented bit is cleared to 0. Per the spec, PDS will always be 1 when the Slot Implemented bit is clear. Therefore PDS can not be used to determine device presence when the SI bit is clear.

Operating System	Falling Test	Expiry date	ID Number	Type	Error Description
Windows Vista Windows Vista 64-bit	UAA Test- Vista(System)	6/1/2009	1394	Erratum	UAA Test requires the Traffic Priority bit to be read/write - however there are two specs that apply, and they conflict. One says the bit must be read/write, the other says it must be read-only. Contact has been made with the author of both specs (Intel) but until this point is clarified we cannot fail submissions containing this test failure.

Submission Readme File

Effective May 1, 2007, 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/whql/WHQLdwn.msp>

**Testing Exceptions for Intel® Workstation Board WX58BPS3210SHLX
Windows Server 2008**

N/A

Appendix A – Submission History

Microsoft “Designed for Windows*” logo submission history for the Intel® Workstation Board WX58BP:

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1323968	First-Time	4/6/2009	Windows Vista 64 Bit Windows Vista	3.20G Xeon	Fab 100	BPX5810J.86B.0012.2009.0331.1610