



Server WHQL Testing Services

Enterprise Platforms and Services Division

Intel® Server Board X38ML

Server Test Submission (STS) Report

For the Microsoft® Windows® Logo Program (WLP)

Rev 1.0

October 25, 2007

This report describes the Intel® Server Board X38ML 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® Server Board X38ML.

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	10/25/2007	Internal draft of the STS Report for Windows Server 2003 Submission for Intel® Server Board X38ML include both 32 and 64 bits versions done with Intel® Core™ 2 Quad processor.

THIS TEST REPORT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, SPECIFICATION OR SAMPLE.

Information in this document is provided in connection with Intel® products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by the sale of Intel products. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications.

Intel retains the right to make changes to its test specifications at any time, without notice.

The hardware vendor remains solely responsible for the design, sale and functionality of its product, including any liability arising from product infringement or product warranty.

Intel, Pentium, Itanium and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

* Other names and brands may be claimed as the property of others.

Copyright © 2007, Intel Corporation. All rights reserved.

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	10
http://www.microsoft.com/whdc/whql/WHQLdwn.msp	10
Testing Exceptions for Intel® Server X38MLX38ML Windows Server 2003	11
Appendix A – Submission History.....	12

Introduction

This report provides an overview of the testing conducted on the Intel® Server Board X38ML with 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 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. 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	1268287	
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	PC System or Server	
Operating System family	Windows Server 2003 (32 & 64 Bit)	
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	<input checked="" type="checkbox"/>	
SQL Database Server	<input checked="" type="checkbox"/>	
File Server	<input checked="" 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® Core™ 2 Quad processor and Core™ 2 Dual processor
Speed	3.0GHz
System Memory	
Amount Installed	8 GB
Memory Type	DDR-2 667/800MHz (4 DIMMs) ECC Unbuffered memory
Power Management	
ACPI Sleep States (S1, S2, S3, S4)	S1, S4
Server 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	204 (D95420-204)
Board Manufacturer	Intel Corporation
Board Model	Intel® Server Board X38ML
Northbridge* Chipset Manufacturer	Intel Corporation
Northbridge Chipset Model	Intel X38ML Chipset
Southbridge* Chipset Manufacturer	Intel Corporation
Southbridge Chipset Model	Intel ICH9R
BIOS	
BIOS Manufacturer	Intel Co.
BIOS Version	S3200X38.86B.00.00.0030
BIOS Date	10/12/2007
BIOS URL (For Updates)	http://support.intel.com/

Bus Types			
	Check all that Apply		Check all that Apply
PS/2	<input 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 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 type="checkbox"/>	Display	<input checked="" 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® Server Board X38ML are available for download at:

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

Technology	OS	Version
LAN 82575EB PCI Express 1000	Windows Server 2003 64	V10.1.17.0
	Windows Server 2003 64 Bit	V10.1.17.0
Display Server Engine iBMC video	Windows Server 2003	V5.95.006.9
	Windows Server 2003 64 Bit	V5.95.006.9
Serial RAID ATA (ICH9-R) Integrated 4-port SATA with support for RAID 0,1, 5 and 10	Windows Server 2003	V7.5.0.1007
	Windows Server 2003 64 Bit	V7.5.0.1007
Intel Bearlake-X/ICH9 Chipset	Windows Server 2003	V8.3.1.1009
	Windows Server 2003 64 Bit	V8.3.1.1009

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 Board X38ML	
Additional Product Names		
Supported Platforms		
	Check Tested	Comments
Windows Server 2003, Web Edition	<input checked="" type="checkbox"/>	
Windows Server 2003, Standard Edition	<input checked="" type="checkbox"/>	
Windows Server 2003, Enterprise Edition	<input checked="" type="checkbox"/>	
Windows Server 2003, Standard Edition 64 Bit	<input checked="" type="checkbox"/>	
Windows Server 2003, Enterprise Edition 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.mspx>.

Please check this website regularly for test kit updates.

Operating Systems	Notes	Driver test manager (DTM)
Windows Server 2003	DTM 1.0_C Test Procedures and Readme files for Windows XP SP2 and Windows Server 2003	DTM 1.0_C (Windows XP SP2 and Windows Server 2003) Test Kit

Errata and Contingencies

N/A

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® Server Board X38ML Windows Server 2003

N/A

Appendix A – Submission History

Microsoft “Designed for Windows*” logo submission history for the Intel® Server Board X38ML:

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1268287	First-Time	10/25/2006	Windows 2003 64 Bit Windows 2003	3.0G Quad-Core	Fab 204	S3200X38.86B.00.00.0030