



Intel® Desktop Board D975XBX2

Windows Vista Premium Certified

MLP Motherboard Logo Program (MLP) Report

8/6/2007

Purpose:

This report describes the D975XBX2 Motherboard Logo Program testing run conducted by Intel Corporation.

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Introduction

Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
DTM	Driver Test Manager
MLP	Motherboard Logo Program. For further information see: http://www.microsoft.com/whdc/hwtest/default.mspx
AP Machine	Audio Precision Machine
Winqual	Windows Qualification
MSFT Tested Product List	Tested Products List. You can view the Windows Marketplace for tested products list at: http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&cid=105&q=s

Desktop Board Configuration

Desktop Board D975XBX2 Final Configuration Report: Completion of MLP

Data in this section reflects system configuration at time of MLP submission.

Board Information

Product Code ¹	BIOS String/Model	Technologies NOT Logo'd (yet)
D975XBX2	BX97520J.86A.2770.2007.0613.1403	N/A - all technologies logo'd
Processor		
Speed	2.66 GHz	
Family	Intel® Core™2 Quad	
Bus Speed	1066 MHz	
Motherboard		
Board AA #	D53350	
Board FAB #	507	
* This report applies to the production FAB revision; Please consult your Intel Corporation representative to clarify the motherboard revision you intend to perform logo testing if not the same.		
System Memory		
Speed	800 MHz	
Memory Type	Dual Channel, DDR2	
Connector Type	240 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows XP Pro	<input checked="" type="checkbox"/>	XP Pro with Service e Pack 2
Windows XP Pro 64-bit	<input checked="" type="checkbox"/>	XP Pro with Service Pack 2
Windows Vista	<input checked="" type="checkbox"/>	RTM Build 6000
Windows Vista 64-bit	<input checked="" type="checkbox"/>	RTM Build 6000
Windows Vista Basic	<input type="checkbox"/>	RTM Build 6000

¹ These are the product names to enter in the "Submission ID of previously logo'd qualified PC system or server" field during your "System Using a Previously Logo'd Motherboard" submission to Microsoft.

Windows Vista Basic 64-bit	<input type="checkbox"/>	RTM Build 6000
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Onboard Integrated Devices and Driver for XP Pro 32 and 64bit

Technology	OS	Version
Chipset Update Utility Intel® Chipset Software Utility	Windows XP Pro	8.3.0.1013
	Windows XP Pro 64-bit	8.3.0.1013
Audio Sigmatel	Windows XP Pro	6.10.5511.0
	Windows XP Pro 64-bit	6.10.5511.0
LAN Intel® PRO Network Connections	Windows XP Pro	9.8.20.0
	Windows XP Pro 64-bit	9.8.20.0

Onboard Integrated Devices and Driver for Vista 32 and 64bit

Technology	OS	Version
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	8.3.0.1013
	Windows Vista 64-bit	8.3.0.1013
Audio Sigmatel	Windows Vista	6.10.5511.0
	Windows Vista 64-bit	6.10.5511.0
LAN Intel® PRO Network Connections	Windows Vista	9.8.20.0
	Windows Vista 64-bit	9.8.20.0

Driver Test Manager Used (DTM) WLK 1.0c

Microsoft website: <http://www.microsoft.com/whdc/DevTools/WDK/DTM.msp>

Please check regularly for test kit updates from Microsoft. Please ensure latest filters updated prior to WHQL run.

Operating Systems	Notes	WHQL Testkit
Windows XP Pro	DTM for Windows XP SP2	WLK 1.0 C DTM for Windows XP SP2

Windows XP Pro 64-bit		
Windows Vista Windows Vista 64-bit	<u>DTM for Windows Vista</u>	<u>WLK 1.0 C DTM for Windows Vista</u>

Errata / Contingency

Operating System	Failing Test	Expiry date	ID Number	Type	Error Description
Windows Vista Client Windows Vista Client 64-bit	PCI Compliance Test	12/31/2008	382	Errata	PCI Compliance test - Class Code register for the Header table must be read-only. The following assertion failure is allowed: 39F11BBB-39F9-4B8F-8EB4-BF20445A6CA2
Windows Vista Client Windows Vista Client 64-bit	PCI Compliance Test	12/31/2008	383	Errata	PCI Compliance test - Min_Gnt register of the Header table must be read-only and always return 0. The following assertion failure is allowed: 317BC33F-0EBA-4C97-B6DA-474233323C09
Windows Vista Client Windows Vista Client 64-bit	PCI Compliance Test	2/28/2009	406	Errata	The PCI Compliance - Bit 17 (Receiver Overflow 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. RESOLUTION: The following PCI Compliance test assertion failure is allowed DDEAA888-8F17-4AFA-8869-F84AE83FA5EF.
Windows Vista Client Windows Vista Client 64-bit	GlitchFree WMV HD 720p video playback quality Test	6/16/2008	531	Errata	NOTE: This errata is to cover the issue where this test is failing on ultra mobile and ultra portable Vista Client Premium logo submissions. This test is not expected to pass on Ultra Portable or Ultra Mobile. PREVIEW TEST: SYSFUND062 - This test may have failed due to incorrect settings or the number of glitches during Video Playback exceeded the maximum allowed. This test ensures that Premium Logo Vista machines are capable of playing back HD Video content without glitching. The test case verifies the screen resolution is set to at least 1024x768, DWM is enabled, and that HD 720p video plays back without perceivable glitches. This test will be required to pass for Client Premium System logo certification (desktop and mobile only). Common causes of failures: 1. DWM was disabled: This test requires that DWM (Aero Vista Theme with transparency) be enabled. 2. The screen resolution is not at least 1024x768. 3. The hardware is not capable of playing back 720p HD video content. 4. The hardware drivers installed cause video to glitch with long ISR/DPC times.
Windows Vista Client Windows Vista Client 64-bit Windows XP SP2 Client Windows XP x64 SP2 Client	UAA Test (System)	7/31/2008	534	Errata	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.
Windows Vista Client 64-bit	System - USB Test (Manual) System -Tuner-DMA test	9/20/2007	537	Errata	DTM is unable to locate the correct executable (TvWlpSystemsTests.Exe) on 64-bit systems. As a result, the test is not run and a failure is generated. This filter will suppress the failures, thus enabling partners to Logo. The problem will be rectified in the next release
Windows Vista Client Windows Vista Client 64-bit Windows XP SP2 Client Windows XP x64 SP2 Client	UAA Test (System)	7/31/2008	567	Errata	Certain HD Audio codecs allow setting unsupported VRef settings in the pin control register. They have hardware validation that prevents the unsupported VRef settings from affecting the actual voltage, but subsequent reads from the pin control register will return values that are out of sync with what the actual voltage is. This requires a hardware fix so the failure is forgiven for these specific codecs. Future designs must advertise the VRefs correctly.

Test Notes

Operating System	Test	Description
XP and Vista	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ click on Support and Download
XP and Vista	BIOS setup	Please make sure the BIOS setting as below. System Date and Time: Current date and time Peripheral Configuration: Enable all onboard component Drive Configuration: Set to IDE Chipset Configuration: Enable HPET ACPI Suspend State: Set to <S3 State> Boot Device Priority: set <Hard Disk Driver> to first
XP and Vista Filter update	DTM WHQL test	http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab
Special H/w that use to PASS the test	None	None