



Intel MB440LX Server System

Supported Hardware and Operating Systems

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Revision History

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MB440LX DP Server Supported Hardware and Operating Systems

Introduction

The selection of products in this document coincide with trends for the period of time the system was undergoing testing and is provided as a convenience to our customers only. As the market segment shifts, changes in testing procedure including the addition of new equipment, updated versions of operating systems, or alterations in the configuration of product and operating system may occur which affect validation. Validation is a process of rigorous testing that attempts to verify that onboard features and add-in peripherals used in testing, function with the test platform at the time of the test. The products tested or validated by Intel, therefore, are subject to the disclaimer on the front cover. The customer is responsible for running appropriate tests on its products before shipment to computer end-users or installation in its facilities.

Test Strategy

To identify any problems, all Intel server platforms undergo rigorous testing using a selection of operating systems and adapter cards. These peripherals and operating systems have been chosen according to their high-level of acceptance within the industry and their ability to stress the system. The test suites performed on the server system have been designed to validate data paths, chipset functionality, system functionality, device drivers, and operating system functionality and include tests developed by operating system vendors, third-party developers, and Intel hardware and software engineering teams.

Key Specifics

The MB440LX DP Server System Supported Hardware/Operating list reflects the peripherals and operating systems that were evaluated through internal testing of the MB440LX DP Server product by the Intel Enterprise Server Group (ESG). This list has been compiled from the test suites of an Intel internal testing lab; the Server Validations Lab (SVL).

The SVL provides an in-depth series of test suites, focusing on Board Set validation under three operating systems; Microsoft Windows NT* 4.0, SP3, Novell NetWare* 4.11 SMP (IntranetWare*1), SP3, SCO UnixWare* 2.1.1. Additionally, the SVL will test systems using other operating systems, however, these are rated at a lower priority. The focus in SVL testing is on the validation of onboard features and baseboard functionality with add-in equipment, specifically, a selection of SCSI hard drive controllers and network interface cards. Although there is less of an array of peripherals used in SVL test suites, the testing is more intense.

Support Policy

The Priority 1 devices and operating systems listed in this document will be supported throughout the MB440LX DP Server product life cycle. A stable driver set is currently available for each product. The Priority 1 operating systems and drivers will be upgraded to the new versions as they become available during the course of MB440LX DP Server product life cycle and will also be validated and supported.

Validation testing using devices and operating systems that are defined as Priority 2 or 3 are not supported at this time. A matrix providing specific information regarding the configuration of adapters and operating systems will be composed using the test data, as it becomes available in reports. This matrix will be provided following the product release and will be updated periodically.

Operating Systems

The table below defines the priority order as it applies to the operating system. Priority order is as follows:

- **Priority 1:** These O/Ss and adapters were strategically selected for in-depth board validation as driven by server industry acceptance. These O/Ss and adapters are required to be functional for MB440LX DP Server design release.
- **Priority 2:** These O/Ss and adapters are in the next tier of items that are not as strongly accepted in the server industry. These items are tested, however, if not functional they will not hold up the MB440LX DP Server design release.
- **Priority 3:** These O/Ss and adapters have not achieved the level of industry acceptance that is prevalent with Priority 1 and 2. A minimal level of testing of these O/S and adapters may be performed as time permits. As with Priority 2 O/Ss and adapters, none of these would hold up MB440LX DP Server design release.

Table 1: Priority designation for validated operating systems

Priority	Operating System	Version #	UP/MP	Comment
1	Novell NetWare †	4.11	UP & SMP	Supported on MB440LX DP Server
1	SCO UnixWare †	2.1.1	UP & SMP	Supported on MB440LX DP Server
1	MS Windows NT Server †	4.0	UP & SMP	Supported on MB440LX DP Server
2	Novell NetWare	4.1	UP	
2	IBM WarpServer* SMP †	4.0	UP & SMP	
2	MS Windows NT Server	3.51	UP & SMP	
3	MS-DOS*	6.22	UP	
3	IBM OS/2*†	2.11	UP & SMP	
3	SCO OpenServer* †	ODT 5.0.2	UP & SMP	
3	Solaris* †	2.5.1	UP & SMP	
3	Windows 95* †		UP	

† **NOTE:** This symbol indicates that the operating system may be certified on the MB440LX DP Server system. However, due to the policies of some of the O/S vendors, Intel is not allowed to officially certify systems with these O/Ss. Consequently, although Intel will perform the testing suites required for O/S certification to ensure produce quality, official O/S certification must be obtained through the OEM, OEM's customer, or distributor's customer.

Adapter Cards

The following tables contain the add-in adapter cards that Intel currently plans to test in the MB440LX DP Server system. The adapters have been broken down into categories based on their functionality and prioritized like the operating system testing; i.e. higher priority will be given to priority 1 adapters, lower priority to 2 and 3. It should be considered that testing of adapter cards is very complex since they must be tested in different slot, with different O/Ss, in combination with different adapter cards etc. The smallest differences in the configuration including, but not limited to the hardware (hard drives, clients, etc.), software, firmware, operating system, installation, and test procedures may affect the outcome of the test.

Table 2: Hard Disk Controllers (using onboard Symbios devices)

Priority	MFGR	Bus	Model	Comment
1	Adaptec	PCI	AHA*-3940UW	Supported on MB440LX DP Server
1	AMI	PCI	MegaRAID	Supported on MB440LX DP Server
1	DPT	PCI	SmartRAID* IV (PM3334UW)	Supported on MB440LX DP Server
1	Mylex	PCI	DAC960PD-Ultra	Supported on MB440LX DP Server
1	Adaptec	ISA	AHA-1540CP	Supported on MB440LX DP Server
2	Adaptec	PCI	AHA-3944UWD	2 channel Ultra Wide Differential
2	Adaptec	PCI	AHA-2940UW	
2	Mylex	PCI	DAC960PD	
2	Symbios Logic	PCI	SYM8751SP	
2	Adaptec	ISA	AHA-1520B	No MP safe UnixWare drive

Table 3: Network Interface Cards

Priority	MFGR	Bus	Model	Comment
1	3Com	PCI	Fast EtherLink* XL (3C905)	
1	Adaptec	PCI	Quartet* (ANA*-6944TX)	
1	Intel	PCI	EtherExpress™ PRO/100B	
1	SMC	PCI	EtherPower* 10/100 (SMC9332BDT)	
1	Intel	ISA	EtherExpress PRO/10+	10Mbps Ethernet
2	SMC	PCI	EtherPower (SMC9332DST)	
2	3Com	PCI	Fast EtherLink (3C595)	
2	RNS	PCI	2340TX Quad Fast Ethernet adapter	
2	Intel	PCI	EtherExpress PRO/100S	
2	SMC	PCI	EtherPower** (SMC8434)	
2	IBM	ISA	25H3501	10/100Mbps Ethernet No UnixWare driver
3	IBM	PCI	IBM 3 Port PCI Token Ring	Token Ring

NOTE: All onboard devices are tested by default and are therefore not included in these tables.



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