Enterprise Server Group

Intel N440BX DP Server
Supported Hardware/Operating Systems

Version 1.0

June, 1998

Revision History

Revision	Revision History	Date
Rev 1.0	Initial release of the N440BX DP Server Supported Hardware/Operating System list.	6/98

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1 Supported Hardware/Operating System Testing

1.1 Overview

The selection of products in the following tables coincide with industry trends for the period of time the system was undergoing testing. As the market segment shifts, changes in testing procedure may occur including the addition of new equipment, updated versions of operating systems, or alterations in the configuration of product and operating system. This list, therefore, is subject to change in order to accommodate any updates and to clearly define testing.

To identify any potential problems, all Intel 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 system have been designed to validate data paths, chipset functionality, system functionality, device drivers, and operating system functionality and include tests developed by OS vendors, third-party developers, and Intel hardware and software engineering teams.

The N440BX Supported Hardware/Operating System list reflects the peripherals and operating systems that were evaluated through Intel internal testing of the N440BX DP Server product. This list has been compiled from the test suites of the Enterprise Server Group's Platform Validation Lab (PVL). The following key specifics define the Hardware/Operating System combinations evaluated and the level of evaluation. A blank box indicates that the Hardware/Operating System combination has not been evaluated in testing.

Level 1 Testing:

This represents a high-level of testing; involving many hours of continuous running with varying loads of stress placed on the server. Testing at this level involves an in-depth series of test suites, focusing on board set validation. The focus in level 1 testing is on the validation of onboard features and baseboard functionality with add-in equipment.

The systems are prepared with the complex configuration during this testing. The goal of this test is to stress the system at the highest level. All the PCI and ISA slots are filled with the SCSI/NIC adapters and six hard drives are used to run over ten different test suites. Multiple clients (minimum of thirteen) are connected to each NIC in the server and a minimum of 39 clients are connected to the whole system. Tests are run between 36 and 144 hours with varying loads placed on the server system using different test suites and performing different activities.

The peripherals utilized in Level 1 testing are noted in the following tables with the number "1", signifying that combination of hardware/operating system was tested under stress and operated with no failures during in-house testing.

Level 2 Testing:

Testing at this level is less intensive than at level one. The tests are shorter in duration, and focus is put utilizing a wide variety of add-in cards and hardware and verifying their functionality in the system. To encompass this quantity of hardware, testing time is limited. The duration of each Level 2 test is typically 8 hours. The peripherals utilized in Level 2 testing are noted in the following tables with the number “2”, signifying that combination of hardware/operating system was tested and found to be functional.

In addition to the testing levels 1 and 2, a selection of products were tested on a basic level, noted in the following tables with the letter "T". This basic testing level includes installation of add-in cards and drivers under the indicated operating systems to ensure that the system can boot successfully using that specific configuration. Basic level testing does not incorporate any stress testing and is used only to determine compatibilty. These items were not included in the validation summary for the product.

Note: A configuration that is said to pass during Intel’s testing procedures does not guarantee the test is repeatable. Many factors may affect the outcome of the test that are beyond our control. 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.

1.2 Supported Hardware/Operating System Configurations

Controllers, Video Cards, Fax/Modems, Sound Cards

	Solaris* v2.6.1 MP	NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0	NetWare v4.11 SMP	OS/2 Warp Server v2.0	SCO UnixWare* 2.1.2	SCO OpenServer* v5.0.4	NetWare SFT III
Controllers									
AMI MegaRAID 434				**1**	**1**		**1**		
Mylex DAC960PG				**1**	**1**		**1**		
AMI RAID Express				**1**					
Symbios SYM22801				**1**	**1**		**1**		
Adaptec AHA 2940UW	**2**			**2**					
Adaptec AAA133				**2**					
Adaptec 1520B			**2**						
Adaptec 3940UW	**T**								
Adaptec AHA-1540CP				**1**	**1**		**1**		
Video Adapters									
ATI 3D Expression			**2**	**2**					
ATI Pro Turbo 4MB (ISA)			**T**	**T**					
Diamond Stealth 3D 3000XL (PCI)			**T**	**T**					
Intergraph Intense 3D			**2**	**2**					
Matrox Millenium II			**2**	**2**					
Number 9 Imagine 128 Series 2E			**2**	**2**					
FAX/Modems									
Digiboard Intelligent Multiport PC8E				**2**	**2**				
U.S. Robotics Sportster Voice Modem				**T**					
Sound Cards									
Sound Blaster AWE64 Value			**2**	**2**					

NOTE: 1 = Level 1 tested, 2 = Level 2 tested, and T= Tested for compatibility only. Not on the Validation Summary

Floppy Drives, Hard Drives, Tape Drives, CD-ROM Drives

	Solaris v2.6.1 MP	NetWare v3.12	Windows 95 OSR 2.1	Windows NT Server v4.0	NetWare v4.11 SMP	OS/2 Warp Server v2.0	SCO UnixWare 2.1.2	SCO OpenServer v5.0.4	NetWare SFT III
Floppy Drives									
TEAC FD-235HF		**T**			**T**				
TEAC FD-235HG (3.5-in. 1.44MB Floppy)	**T**	**T**	**T**	**T**	**T**	**T**	**T**	**T**	**T**
Hard Drives									
Fujitsu MPA3026ATU				**T**			**T**		
Seagate Hawk ST32151WC				**T**	**T**	**T**	**T**		
Seagate ST32055WC									**T**
Seagate Hawk ST31055W	**T**						**T**	**T**	
Seagate Hawk ST32155WC				**T**	**T**		**T**		
Seagate ST15150N				**T**	**T**				
Seagate ST32151N					**T**				
Seagate ST32155N				**T**			**T**		
Seagate Hawk ST31230W							**T**		
Seagate ST32171WC				**T**					
Seagate ST19171W					**1**				
Western Digital Caviar 21600	**T**	**T**			**T**	**T**		**T**	
Western Digital Caviar 22500					**T**				
Western Digital WDE 2170						**T**	**T**		
Tape Drives									
HP CC1533AsureStore DAT8I 8 GB							**T**		
HP C1528G SureStore DAT8I 8GB				**2**					
HP sureStore 6000 SCSI				**T**	**T**		**T**		
Conner 4326NP							**T**		
Conner 4362NP	**T**						**T**	**T**	
CD-ROM Drives									
Panasonic CR-585B				**T**					
Matsushita CDR-585					**T**				
Matsushita CR-585B		**T**		**T**	**T**		**T**		
Matsushita CR-585R							**T**		
Hitachi CDR-8335				**2**			**2**		
Hitachi CDR-8330	**T**	**T**	**T**	**T**	**T**	**T**	**T**	**T**	**T**
Sony CDU 511 – 11/10				**T**					

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Network Interface Cards

	Solaris v2.6.1 MP	NetWare v3.12	Windows 95 OSR 2.1	Windows NT Server 3.51	Windows NT Server v4.0	NetWare v4.11 SMP	OS/2 Warp Server v2.0	SCO UnixWare 2.1.2	SCO OpenServer v5.0.4	NetWare SFT III
Network Interface Cards										
3Com 3C509B Etherlink III (ISA)		T								
3Com 3C595 Etherlink III (PCI)				T		T				
3Com TokenLink III (ISA)		T								
Adaptec ANA6944A TX		T				T				
Cogent eMaster + EM9600 (PCI)		T								
IBM 25H3501						2				
IBM Token Ring 16/4 II		T								
IBM Token Ring 16/4 ISA		T								
IBM Token Ring Auto 16/4 ISA		T								
IBM Auto LANStreamer (PCI)						T	T			
Intel EtherExpress 16 ISA		T								
Intel EtherExpress PRO 10 PCI		T		T						
Intel EtherExpress PRO 10 + (PCI)		1			1	1		1		
Intel EtherExpress PRO 100 A (PCI)		T								
Intel EtherExpress PRO 100B (PCI)		2		2		2	2			
Intel EtherExpress PRO 100+ (PCI)					1	1		1		
Intel EtherExpress PRO 100Server (PCI)					1	1		1		
Madge Smart 16/4 AT Ringnode						T				
Madge Smart 16/4 PCI Ringnode						T				
Matrox Shark NS-100/4 Multiport					1	1		1		
Novel Eagle NE2000plus						T				
Olicom PCI Token-Ring 16/4		T				T				
Proteon 1392 Plus		T								
Racal InterLAN PCI T2		T								
SMC EtherPower 10/100 9432TX (PCI)				T		T				
SMC 9332BDT					1	1		1		
SMC TokenCard Elite (ISA)						T				
SMC Ultra Elite Combo						T				
Thomas Conrad TC4045		T								
Thomas-Conrad TC5048 (PCI)						T				
ZNYX ZX312 EtherBlaster (PCI)		T								

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Peripherals

	Solaris v2.6.1 MP	NetWare v3.12	Windows 95 OSR 2.1	Windows NT Server v4.0	NetWare v4.11 SMP	OS/2 Warp Server v2.0	SCO UnixWare 2.1.2	SCO OpenServer v5.0.4	NetWare SFT III
Printers									
Hewlett-Packard LaserJet 6MP C3982A			T						
Hewlett-Packard DeskJet 540				T					
Hewlett-Packard DeskJet 600				T					
Hewlett-Packard DeskJet 692P	T						T	T	
Keyboards									
Hi-Tek RT-101+	T						T	T	
Cirque Glidepoint Keyboard				T					
IBM KB-8923									
Microsoft natural Keyboard				T					
NBM-RT6656T+		T			T				T
Mice									
Logitech M-CQ35 mouse	T		T				T	T	
Logitech PS/2 Cordless Mouse				T					
Logitech Trackman Marble Trackball				T					
Logitech M-S35						T			
NMB-RT1016656T+		T			T				
Microsoft Ergo PS/2 Mouse				T					
Cameras									
Logitech USB Scanner			T						
Kodak USB Video Camera			T						
Intel USB Create and Share Camera			T						
Hauppage Win/TV				T					
Monitors									
ViewSonic 17PS						T			
MAG DX 1595		T			T				T
MAG DX 17			T						
Dell 1728D	T						T	T	

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