

Enterprise Server Group

Intel SC450NX MP Server

Supported Hardware/Operating Systems

Version 1.1

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Revision History

Revision	Revision History	Date
Rev 0.5	Pre release of the SC450NX MP Server Supported Hardware/Operating System list.	8/98
Rev 0.9	Added PVL MAV Regression peripherals	8/98
Rev 1.1	Added RedHat and Solaris IA information	10/99

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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 SC450NX Supported Hardware/Operating System list reflects the peripherals and operating systems that were evaluated through Intel internal testing of the SC450NX MP 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 100 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 compatibility. 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

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris * v7.0	Red Hat* Linux v6.0
Adaptec AHA 2940UW – Rev B			2	2								
Adaptec AHA 2944UW			2	2								
Adaptec 1520B			2	2								
Adaptec AHA 3940AUWD				1	1			1				
Adaptec AHA 3944UWD				2								
Adaptec AHA-1540CP			2	2								
Adaptec AHA-F940				1	1							
AMI MegaRAID Ultra GT 434				1	1			1				
AMI MegaRAID Ultra2 438				1	1			1				
Mylex AcceleRAID 200				1	1			1				
Mylex AcceleRAID 250											2	2
Mylex DAC960PG				1	1			1			2	2
Qlogic QLA1240			2	2								
Symbios SYM22801				1	1							



Video Cards

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0-4	Novell NetWare SFT III	SunSolaris* v7.0	Red Hat* Linux v6.0
ATI 3D Xpression+			2	2								
ATI 3D Pro Turbo PC2TV			2	2								
ATI All in Wonder			2	2								
ATI Xpert@Play			2	2								
Diamond Fire GL 3000 8x32			2	2								
Diamond Stealth 3D 3000XL (PCI)			2	2								
Dynamic Pictures Oxygen 402			2	2								
Intergraph Intense 3D 100			2	2								
Matrox Millenium II			2	2								
Matrox Mystique 220			2	2								
Number 9 Revolution 3D			2	2								
Cirrus Logic CL-GD5480											2	2

Fax/Modems

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0-4	Novell NetWare SFT III	SunSolaris* v7.0	Red Hat* Linux v6.0
Control RocketPort 8 PCI				2								
Digiboard Intelligent Multiport PC8E				2								
Hayes Acura 56K				2								
U.S. Robotics Courier X2 Tech 56K				2								
U.S. Robotics Sportster Voice Modem 33.6				2								



Sound Cards

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0-4	Novell NetWare SFT III	SunSolaris * v7.0	Red Hat* Linux v6.0
Sound Blaster Vibra 16			2									
Sound Blaster AWE64												
Sound Blaster AWE64 Value				2								
Sound Blaster PCI 64			2	2								



Floppy Drives

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* v2.1.2	SCO UnixWare* v7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux* v6.0
TEAC FD-235HF Mitsubishi MF355F		2			2	2				2		

Hard Drives

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* v2.1.2	SCO UnixWare* v7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux* v6.0
Fujitsu MPA3026ATU			2	1								
Seagate Hawk ST31055W								1				
Seagate Hawk ST31055WC								1				
Seagate Hawk ST32155WC					1							
Seagate ST32155N						2						
Seagate Barracuda 4LP ST32171WC				1								
Seagate Barracuda 9LP ST34573LC					1			1				
Seagate Cheetah ST34502LC											2	2
Seagate Cheetah ST34502LW											2	2
Western Digital Caviar 21600		2			2					2		
Western Digital Caviar 32500						2						
Western Digital WDE2100				1	1							
Western Digital WDE 2170				1		2		1				



Tape Drives

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* v2.1.2	SCO UnixWare* v7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux* v6.0
HP CC1533A SureStore DAT8i, 8 GB HP C1532 SureStore DAT8i, 8GB Sony SDT-9000 Tandberg Data MLR-1				1	1			1				

CD-ROM Drives

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* v2.1.2	SCO UnixWare* v7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux* v6.0
Hitachi CDR-8335 Hitachi CDR-8330 NEC 1700B NEC 1810A Sony CDU 511 – 11/10 Toshiba XM6201B		2		1	1	2		1		2	2	2



Network Interface Cards

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux * v6.0
3Com 3C509B Etherlink III (ISA)				2								
3Com 3C509B-TPO Etherlink III (ISA)						2						
3Com 3C595-TX Etherlink III (PCI)				2	2							
3Com Fast EtherLink XL Parallel Tasking 10/100 3C905-TX				1	1			1				
Adaptec ANA6944A TX				2	2							
IBM 10/100 ISA Ethernet						2						
IBM Token Ring Auto 16/4 ISA						2						
IBM Auto LANStreamer (PCI)				2	2							
Intel EtherExpress 16 ISA						2						
Intel EtherExpress PRO/10 (ISA)				2								
Intel EtherExpress PRO 10 PCI				2								
Intel EtherExpress PRO 10 + (PCI)				2		2						
Intel EtherExpress PRO/10FX					2							
Intel EtherExpress PRO 100B (PCI)		2		2	2	2						
Intel EtherExpress PRO 100+ (PCI)				1	1			1			2	2
Intel EtherExpress PRO 100Server (PCI)				1	1			1				
Intel TokenExpress 16/4						2						
Madge Smart 16/4 PCI Ringnode					2							
Olicom PCI Token-Ring 16/4				2	2	2						
SMC EtherPower II 10/100 9432TX (PCI)				2		2						
SMC 9332BDT				1	1			1				
SMC EtherPower SMC8432BT						2						



Printers

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux* v6.0
Hewlett-Packard LaserJet 6MP C3982A				2								

Keyboards

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux* v6.0
Cirque Glidepoint Keyboard				2								
IBM KB-8923						2						
Microsoft Natural Keyboard				2								
NMB-RT2258TW				2								
NMB-RT6656T+	2			2						2		

Mice

	Sun Solaris* v2.6 MP	Novell NetWare* v3.12	Windows 95* OSR 2.1	Windows NT* Server v4.0 Enterprise Edition	Novell NetWare* v4.11 SMP	IBM OS/2 Warp Server v4.0	SCO UnixWare* 2.1.2	SCO UnixWare* 7.0	SCO OpenServer* v5.0.4	Novell NetWare SFT III	SunSolaris *v7.0	Red Hat* Linux* v6.0
Logitech M-CQ38 mouse				2								
Logitech PS/2 Cordless Mouse				2								
Logitech Trackman Marble Trackball				2								
Logitech M-S35				2								
Microsoft Ergo PS/2 Mouse				2		2						



Cameras

	Sun Solaris* v2.6 MP												
	Novell NetWare* v3.12												
	Windows 95* OSR 2.1	2											
	Windows NT* Server v4.0 Enterprise Edition												
	Novell NetWare* v4.11 SMP												
	IBM OS/2 Warp Server v4.0												
	SCO UnixWare* 2.1.2												
	SCO UnixWare* 7.0												
	SCO OpenServer* v5.0.4												
	Novell NetWare SFT III												
	SunSolaris *v7.0												
	Red Hat* Linux* v6.0												
Logitech USB Scanner													
Kodak USB Video Camera													
Intel USB Create and Share Camera													

Monitors

	Sun Solaris* v2.6 MP												
	Novell NetWare* v3.12												
	Windows 95* OSR 2.1												
	Windows NT* Server v4.0 Enterprise Edition												
	Novell NetWare* v4.11 SMP												
	IBM OS/2 Warp Server v4.0												
	SCO UnixWare* 2.1.2												
	SCO UnixWare* 7.0												
	SCO OpenServer* v5.0.4												
	Novell NetWare SFT III												
	SunSolaris *v7.0												
	Red Hat* Linux* v6.0												
ViewSonic 17PS													
MAG DX 1595		2											
MAG DX 17				2									