



Intel[®] SCB2 Server Board Tested Hardware & Operating System List



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Enterprise Platforms and Services Division

Revision History

Date	Revision Number	Modifications
Nov 2001	1.0	Initial Draft
Jan 2002	1.1	Revised to incorporate additional adapters from updated PVL Test Report
Jan 2002	2.0	Revised to incorporate new Report Template
July 2002	3.0	Updated to include latest supported operating systems and tested hardware; added SR1200/SR2200 5V riser hardware compatibility list

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1. Introduction

This document is intended to provide users of the **SCB2 server board** with a guide to the different operating systems, adapter cards, and peripherals tested by Intel on this platform.

This document will continue to be updated as new add-in cards, peripherals, and operating systems are tested or until the SCB2 server board is no longer in production. Each new release of the document will present updated information as well as continue to provide the information from previous releases.

Intel will only provide support to those add-in cards and peripherals under the specified system configuration (System BIOS and firmware) and operating systems and versions to which they were tested.

1.1 Test Overview

Testing performed on the SCB2 server board is classified under two separate categories: Compatibility Testing and Stress Testing.

1.1.1 Compatibility Testing

Basic compatibility testing is performed with each supported operating system. Basic compatibility testing validates the server board can be used to install the operating system and that the base hardware feature set is functional. A small set of peripherals are used for installation purposes only. No add in cards are tested. Testing may include network connectivity and running of proprietary and industry standard test suites.

Extended compatibility testing will occur on only the latest versions of a supported operating system. Extended compatibility testing will test for functionality of a variety of add-in adapters and peripherals. Test applications used will consist of both proprietary as well as industry standard test suites.

Note: The latest version of an operating system signifies the latest supported version at the time of the actual test run. Each new release of this document may have a newly supported release of a given operating system. Previous releases of a supported operating system may not be tested beyond the basic compatibility test process.

1.1.2 Stress Testing

Stress testing is performed only on the most current release of a supported operating system at the time of a given validation run. The stress test process consists of three areas: Base platform, Multiple Adapter, and Endurance.

Base Platform: Each base platform will successfully install a given operating system, successfully run a disk stress test, and successfully run a network stress test

Multiple Adapter: Multiple adapter validation (MAV) testing uses configurations and test suites to gain an accurate view of how the server performs under varying complex configurations while interacting with network clients. Each configuration is tested for at least 12 hours.

Endurance Test: This test sequence uses configurations that include 2-6 add-in adapters (depending on chassis used) for a minimum 72 hour test run without injecting errors. Three servers operating under Windows 2000* Advanced Server, Novell NetWare*, and Caldera OpenUNIX* are tested in parallel. Each configuration passes an installation test, a Network/Disk Stress test, and tape backup test. Any fatal errors that occur will require a complete test restart.

1.2 Pass/Fail Test Criteria

For each operating system, adapter, and peripheral configuration, a test passes if specific criteria are met. Specific configurations may have had particular characteristics that were addressed on a case-by-case basis. In general, a configuration passes testing if the following conditions are met:

- The operating system installed without error.
 - Manufacturer's installation instructions or Intel's best known methods were used for the operating system installation.
 - No extraordinary workarounds were required during the operating system installation.
 - The server system behaved as expected during and after the operating system installation.
 - Application software installed and executed normally.
- Hardware compatibility tests ran to completion without error.
- Test software suites executed successfully
 - Test and data files were created in the correct directories without error.
 - Files copied from client to server and back compare to the original with zero errors reported.
 - Clients remain connected to the server system.
 - Industry standard test suites run to completion with zero errors reported.

All SCB2 testing was performed using either or both of the SR1200 and SR2200 server chassis.

2. SCB2 Base System Configurations

The following table lists the base configurations tested. Base configurations will change as new new revisions of the SCB2 server board are released and/or new system BIOS and BMC firmware are cut onto the board in the factory. Each base configuration is assigned an identifier number which is referenced in the tables throughout this document. New base configurations are added with each new release of this document.

Base System Identifier #	Board Type	Part Number	BIOS Revision	BMC Firmware Revision	Notes
1	SCB2A	A46043-606	Ver 1.00	Ver 44	
2	SCB2S	A46044-606	Ver 1.00	Ver 44	
3	SCB2A	A46043-607	Ver 1.01	Ver 48	
4	SCB2S	A46044-607	Ver 1.01	Ver 48	
5	SCB2A	A46043-608	Ver 2.00	Ver 56	
6	SCB2S	A46044-608	Ver 2.00	Ver 56	
7					
8					
9					
10					

3. Supported Operating Systems

The following table provides a list of supported operating systems for the SCB2 server board (ATA and SCSI). Each of the listed operating systems was tested for compatibility with a base SCB2 configuration. OS Compatibility testing verifies that the OS will install and function with all onboard devices.

Operating System	Base Configuration Tested
Microsoft Windows 2000* Advanced Server, Service Pack 2	1,2,3,4,5,6
Red Hat* Linux 7.1	1,2,3,4,5,6
Red Hat Linux 7.2	5,6
Novell Netware* 5.1, Service Pack 3	1,2,3,4,5,6
Novell Netware 6.0, Service Pack 1	5,6
Caldera OpenUnix* v8.0, MP/3	1,2,3,4,5,6
Caldera (SCO) Unixware* 7.1.1	1,2,3,4,5,6

4. Add-in Cards and Peripherals

Add-in card and peripheral compatibility and stress testing will only be performed with the latest version of an operating system at the time the validation testing occurred. The following table shows the operating system and base configurations used to validate each device. The adapters are divided into categories based on their functionality. All integrated on-board devices are tested by default and are therefore not included in the following tables.

Note that not all adapter cards were tested under all operating systems. This is due to limitations in IHV driver availability.

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
PCI SCSI / RAID							
Adaptec* AHA-2940U2W	1,2		1,2	1,2			1,2
Adaptec ASC-29160LP	1,2	5,6	1,2	1,2			1,2
Adaptec ASC-39160	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	5,6	1,2,5,6
Adaptec 2100S	1,2		1,2	1,2			1,2
Adaptec 3400S	1,2		1,2	1,2			1,2
Adaptec AIC-7899		5,6		5,6			
Adaptec AFC9210LP	1,2			1,2			1,2
Adaptec 2000S	1,2		1,2				
LSI Logic* SYM22902	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	5,6	1,2,5,6

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
LSI Logic SYM22903	1,2		1,2	1,2			1,2
LSI Logic LSI20160L	5,6	5,6	5,6	5,6	5,6	5,6	5,6
AMI* MegaRAID 493 Elite 1600	1,2,5,6		1,2	1,2	5,6	5,6	1,2
Mylex* AcceleRAID 352	1,2		1,2	1,2			1,2
Emulex* LightPulse LP8000	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	5,6	5,6
Emulex LightPulse LP9000	1,2		1,2	1,2			1,2
Emulex LightPulse LP9002L-F2	5,6	5,6	5,6	5,6	5,6	5,6	5,6
ICP Vortex* GDT4523RZ	5,6	5,6	5,6	5,6	5,6	5,6	5,6
Intel® RAID SRCU31L**	5,6	5,6	5,6	5,6	5,6	5,6	5,6
Intel® RAID SRCU31**	5,6	5,6	5,6	5,6	5,6	5,6	5,6
Intel® RAID SRCU32-I	5,6	5,6	5,6	5,6	5,6	5,6	5,6
Intel® RAID SRCMR	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	5,6	1,2
Promise Technology* PDC20267	5,6					5,6	5,6

** Supported with Software Stack v6.x or later

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
Qlogic* QLA2200L	1,2	5,6	1,2	1,2			1,2
Qlogic QLA2310	1,2,5,6	5,6	5,6	1,2,5,6	5,6	5,6	1,2,5,6
Network Interface Controllers							
3COM* 3C905C-TX-M	1,2,5,6	5,6	5,6	1,2,5,6	5,6	5,6	5,6
3COM 3C980C-TX-M	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	5,6	5,6
3COM 3C985C-SX	1,2		1,2	1,2			
Intel® Pro/100+ Server Adapter	1,2		1,2	1,2			1,2
Intel Pro/100+ S Server Adapter	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	1,2,5,6	1,2,5,6
Intel® Pro/100+ S Dual Port Server Adapter	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	5,6	1,2,5,6
Intel® Pro/1000F Gigabit Server Adapter	1,2		1,2	1,2		5,6	1,2
Intel® Pro/1000T Gigabit Server Adapter	1,2,5,6	5,6	1,2,5,6	1,2,5,6	5,6	5,6	1,2,5,6
Intel® Pro/1000XT Gigabit Server Adapter	3,4,5,6	5,6	3,4,5,6	3,4,5,6	5,6	5,6	3,4,5,6

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
Intel® Pro/1000XFL Gigabit Server Adapter	5,6	5,6	5,6	5,6	5,6	5,6	5,6
Video adapters							
ATI* 3D Rage XL	5,6	5,6	5,6	5,6	5,6	5,6	5,6
Keyboards & Mice							
Logitech* iTouch Keyboard PS/2 & USB	1,2		1,2	1,2,5,6	5,6		1,2
Logitech Miniwheel Mouse PS2 & USB	1,2		1,2	1,2			1,2
Logitech M-CQ38 Mouse						5,6	5,6
Logitech M-S35 Mouse		5,6	5,6				
NMB* PS/2				5,6	5,6		
NMB RT101+						5,6	5,6
NMB RT6655T+		5,6	5,6				

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
Keytronics* PS/2	5,6						
Microsoft* Intelimouse PS2 & USB	1,2,5,6		1,2	1,2			1,2
CDROM Drives							
Teac* CD224E	1,2		1,2	1,2			1,2
Teac SD532S	1,2			1,2			1,2
Teac CDW54E	1,2		1,2				
Samsung* SN-124Q	1,2,5,6		1,2	1,2,5,6	5,6	5,6	5,6
Samsung SC-152	1,2		1,2	1,2			1,2
Plextor* PX-40TSUW	1,2		1,2	1,2			1,2
IOMega* CD-RW 4x4x6	1,2		1,2	1,2			1,2
DVD Drives							
Toshiba* SD-C2502**	1,2		1,2	1,2			1,2
Tape Drives							

** slim line device requires a different interface board than what is provided with either the SR1200 or SR2200 server chassis floppy/CDROM accessory option.

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
Seagate* Scorpion 40 DDS4 DAT	1,2		1,2	1,2			1,2
Sony* SDX-500C.BM	1,2		1,2	1,2			1,2
Removable Drives							
Samsung SDF-321S	1,2		1,2	1,2			1,2
Teac FD-235HF	1,2		1,2	1,2			1,2
Teac FDO5PUB			1,2				
IOMega Jazz 2GB INT	1,2		1,2	1,2			1,2
IOMega Zip – IDE250	1,2						
IOMega Zip-250MB USB	1,2		1,2				
Fujitsu* DynaMO 1300SZI	1,2			1,2			1,2
Fujitsu DynaMO 640/1300SF+USB	1,2		1,2				
Hard Drive Enclosures							
Clariion* Fibre channel JBOD FC5700	1,2		1,2	1,2			1,2

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
Clariion Fibre channel JBOD C5051D-A	1,2		1,2	1,2			1,2
Clariion Fibre channel RAID enclosure C5301D-D	1,2		1,2	1,2			1,2
Clariion DAE	5,6						
Clariion C5051R-A		5,6			5,6	5,6	
Adjile* JGL-33H421C	5,6	5,6			5,6	5,6	
Intel® System Hot Swap 1	5,6	5,6			5,6	5,6	
Modems							
3COM 56K Performance Pro Modem 3CP5610A)	1,2		1,2				
3COM 56K Fax Modem 335630-01	1,2		1,2				
Zoom* 56K Dualmode 2948L	1,2		1,2				
Printers							
Hewlett Packard* LaserJet 5				5,6	5,6		
Monitors							

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
Mag* Innovision				5,6	5,6		
NEC* Multisync C500	5,6						
ViewSonic* 17EA		5,6	5,6				
ViewSonic 17GS						5,6	5,6
Hubs & Switches							
3COM 3C250-TX1	5,6				5,6		
3COM 3C39024	5,6	5,6			5,6	5,6	
Intel® EE210TX12	5,6	5,6			5,6	5,6	
Intel® ES530T	5,6	5,6			5,6	5,6	
Linksys* EZXS88R Etherfast 10/100 Dual	5,6				5,6		
Asante* AsanteFast 100					5,6		
Cisco* WS-C116						5,6	

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUnix v8.0	Caldera UnixWare v7.1.1
Grand Junction* G530		5,6					

4.1 SR1200 & SR2200 Server Chassis 5-volt riser Compatibility List

The following table provides a list of tested add-in 5-volt PCI add-in cards that have been tested using the optional 5-volt riser cards for the Intel SR1200 and Intel SR2200 server chassis.

	Microsoft Windows 2000	Red Hat Linux v7.2	Red Hat Linux v7.1	Novell NetWare v5.1	Novell NetWare v6.0	Caldera OpenUni x v8.0	Caldera UnixWare v7.1.1
Dialogic DM/IP301-1E1 DM3 IPLink Series	4		4				
Dialogic DM/V960-4T1 Quad span voice Series	4		4				
Dialogic DM/V600-4E1 Quad span voice Series	4		4				
Dialogic DM/N960-4T1 Quad span Series	4		4				
Dialogic DM/IP040-LSI DM3 IPLink Series	4		4				
Dialogic DM/IP0821A-T1 DM3 IPLink Series	4		4				

4.2 Hard Disk Drives

The hard drives listed in the following table have been tested with the SCB2 server board by Intel in its validation labs and/or by individual drive vendors. The following Operating System identifiers are used in the table to specify which OS each drive was tested under.

Identifier number	Operating System
1	Microsoft Windows 2000; Advanced Server
2	Microsoft Windows NT 4.0
3	Red Hat Linux 7.1
4	Red Hat Linux 7.2
5	Novell NetWare 5.1
6	Novell NetWare 6.0
7	Caldera OpenUnix 8.0
8	Caldera UnixWare 7.1.1

Manufacturer	Model Number	Product Family	Interface	RPM	Drive size (GB)	Tested Operating Systems
Fujitsu*	MAJ3364MC	AL-6LE	U160	10,000	36	1,3,5,8
Fujitsu	MAN3184MC	AL-7LE	U160	10,000	18	1,2,3,5,8
Fujitsu	MAN3367MC	AL-7LE	U160	10,000	36	1,2,3,5,8
Fujitsu	MAN3735MC	AL-7LE	U160	10,000	73	1,2,3,5,8
Fujitsu	MAM3184MC	AL-7LX	U160	15,000	18	1,2,3,5,8
Fujitsu	MAM3367MC	AL-7LX	U160	15,000	36	1,2,3,5,8

Manufacturer	Model Number	Product Family	Interface	RPM	Drive size (GB)	Tested Operating Systems
Fujitsu	MPF3204A-H	PB15H	ATA-100	7200	20	1,3,5,8
IBM*	IC35L073UCD210	Ultrastar 73LZX	U160	10,000	73	1,4,5,8
IBM	IC35L036UCD210	Ultrastar 73LZX	U160	10,000	36	1,4,5,8
IBM	IC35L018UCD210	Ultrastar 73LZX	U160	10,000	18	1,4,5,8
IBM	IC35L009UCD210	Ultrastar 73LZX	U160	10,000	9	1,4,5,8
IBM	DDYS-T36950	Ultrastar 36LZX	U160	10,000	36	1,3,5,8
IBM	DPSS-336950	Ultrastar 36LP	U160	7200	36	1,3,5,8
IBM	IC35L040AVER07	Deskstar 60GXP	ATA-100	7200	41	1,3,5,8
IBM	DTLA307075	Deskstar 75GXP	ATA-100	7200	75	1,3,5,8
IBM	DTLA307015	Deskstar 75GXP	ATA-100	7200	15	1,3,5,8
Quantum*	QM336400TY-SCA	Atlas 10K II	U160	10,000	36	1,3,5,8
Quantum	KW036J	Atlas 10K III	U160	10,000	36	1,3,5,8
Quantum	KW073J	Atlas 10K III	U160	10,000	73	1,3,5,8
Quantum	KW018J	Atlas 10K III	U160	10,000	18	1,3,5,8
Quantum	QM309100KN-SCA	Atlas IV	U160	10,000	9	1,4,6
Quantum		Atlas V	U160	7200	9	1,8
Quantum		Atlas V	U160	7200	18	1,4,6,8
Quantum	QMP6000	Fireball Plus AS	ATA-100	7200	60	1,3,5,8

Manufacturer	Model Number	Product Family	Interface	RPM	Drive size (GB)	Tested Operating Systems
Seagate*	ST336752LC	Cheetah X15-36LP	U160	15,000	36	1,3
Seagate	ST336752LC	Cheetah X15-36LP	U160	15,000	36	1,3,5,8
Seagate	ST318452LC	Cheetah X15-36LP	U160	15,000	18	1,3
Seagate	ST318451LC	Cheetah-X15	U160	15,000	18	1,3,5,8
Seagate	ST373405LC	Cheetah 73LP	U160	10,000	73	1,3
Seagate	ST336706LC	Cheetah 36ES	U160	10,000	36	1,3
Seagate	ST336605	Cheetah 73LP	U160	10,000	36	1,3
Seagate	ST336704LC	Cheetah 36LP	U160	10,000	36	1,3,5,8
Seagate	ST318406LC	Cheetah 36ES	U160	10,000	18	1,3
Seagate	ST39204LC	Cheetah 18XL	U160	10,000	9	4,6,8
Seagate	ST39103FC	Cheetah 18LP FC	Fibre	10,000	9	4
Seagate	ST318436LC	Barracuda-18XL	U160	7200	18	1,3,5,8
Seagate	ST318437LC	Barracuda-36ES	U160	7200	18	1,3,5,8
Seagate	ST39236LC	Barracuda 18XL	U160	7200	9	1,6
Seagate	ST19171FC	Barracuda 9	Fibre	7200	9	1,6,9
Seagate	ST34573LC	Barracuda 9LP		7200	4.5	6

Manufacturer	Model Number	Product Family	Interface	RPM	Drive size (GB)	Tested Operating Systems
Seagate	ST340824A	Barracuda-ATA III	ATA-100	7200	30	1,3,5,8
Seagate	ST340016A	Barracuda-ATA IV	ATA-100	7200	40	1,3,5,8
Seagate	ST320414A	Barracuda-ATA III	ATA-100	7200	20	1,3,5,8
Seagate	ST380020A	U Series 6	ATA-100	5400	80	1,3,5,8
Seagate	ST340823A	U Series 5	ATA-100	5400	40	1,3,5,8