Intel® SDS2 Server Board Tested Hardware & Operating System List

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Revision History

Date	Revision Number	Modifications
1/14/02	1.0	Initial Release
2/19/02	1.1	Clarified NIC model numbers.
4/3/02	1.2	Updated document to include information from SDS2 test run with BIOS Production Release 2.1, BMC Firmware v. 28, and HSC Firmware v. 0.08.
7/25/02	1.3	Removed SRCMRU
8/8/02	1.4	Updated with information from SDS2 test run with BIOS Production Release 2.6 build 49, BMC Firmware v. 28 and HSC Firmware v. 0.08.

Disclaimers

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1.   Introduction

This document is intended for use by Intel's customers and is intended to provide readers with a guide to the different technologies Intel tested on the SDS2 server board. It provides tables to show the operating systems, adapter cards, and peripherals that Intel tested with the SDS2 server board.

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 subsequently 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.

2.   Operating Systems

This section contains the list of operating systems that Intel tested with the SDS2 server board.

Intel commits to provide the following level of customer support for operating systems, adapter cards, and peripherals listed in this document:

- Intel will provide support for customer issues with these operating systems involving installation and/or functionality of the server board with or without the adapters and peripherals listed in this document as having been tested under the particular operating system.
- Intel will provide support for resolution of customer issues related to the functionality of Intel® Server Management (ISC) software with the operating system, as long as the issue is within the scope of the server management feature set supported by the server board.
- Support is defined as assistance in root causing issues, and determing a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the IHV for resolution, BIOS changes, firmware changes, or determing a customer acceptable workaround for the issue.
- Intel will enable Intel Server Management software functionality with the operating system release.
- Intel will provide and test operating system drivers for each onboard video, network, and storage controller.
- Intel will enable IHVs to provide driver support for add-in adapters using these operating systems.
- Intel will go through some of the steps to achieve certification to ensure its customers do not run across any problems, but the actual certification is the responsibility of the individual customer.

For operating systems, adapter cards, and peripherals not listed in this document, there is no support commitment. Intel will consider support requests on a case-by-case basis.

Operating Systems
Microsoft* Windows* 2000 Advanced Server
Microsoft* Windows* 2000 Server
Novell NetWare* 5.1 SP3
Novel NetWare* 6.0 SP1
Caldera UnixWare* 7.1.1
Caldera Open Unix* 8.0
Red Hat* Linux 7.1
Red Hat* Linux 7.2

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3.   Adapter Cards and Peripherals

The following is a list of adapter cards and periperals card Intel tested with the SDS2 server board. 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.

3.1   Tested Hardware

	Microsoft Windows* 2000 Advanced Server and Server	Novell NetWare* 5.1	Novell NetWare* 6.0	Caldera UnixWare* 7.1.1	Caldera Open UNIX* 8.0	Red Hat* Linux 7.1	Red Hat* Linux 7.2
PCI RAID Adapters							
Adaptec* ASR-2100S	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
Adaptec* 2000S MROMB	1, 3		3		3	1	3
AMI* MEGARAID 493 (Elite 1600)	1, 2, 3	1, 2	3	1	3	1, 2	3
AMI* MEGARAID 475 (Express 500)	1, 3	1	3	1	3	1	3
ICP-Vortex* GDT8623RZ	1, 2, 3	1, 2	3	1	3	1	3
ICP-Vortex* GDT6523RS	1, 2	1		1		1	
Intel SRCU31 (Bonita) (Product code SRCU31A)	2, 3	2	3	2	3	2	
Intel SRCU31L (Goodwin) (Product code SRCU31LA)	1, 2, 3	1, 2	3	1	3	1	3
Intel SRCU32 (Bisbee)	1, 2	1, 2	3	1, 2	3	1, 2	
Mylex Accele RAID 170	3		3		3		3
Mylex* A352-2 (Accele RAID 352)	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
PCI SCSI Adapters							
Adaptec ACS-29160N	3		3		3		3
Adaptec* AHA-2940U2W	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
Adaptec* ASC-39160	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
Qlogic* QLA12160A	1, 2, 3	1, 2	3	1, 2	3	1	3
PCI Fiber Channel Host Adapters							
Emulx Light Pulse* LP8000	1, 2, 3	1, 2	3	1	3	1	3
Qlogic* QLA2100/66	2, 3	2	3		3	2	3
Qlogic* QLA2200	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
Qlogic* QLA2300	1	1		1		1	
Qlogic* QLA2310	2, 3	2	3		3		3
PCI Network Interface Cards							
3COM* 3C980C-TX (Fast Ether Link PCI)	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
3COM* 3C985B-SX (Gigabit Ethernet)	1, 2, 3	1, 2	3	1	3	1, 2	3
Intel PWLA8490T (PRO/1000T)	1, 2	1, 2		1, 2		1, 2	
Intel PWLA8490SX (PRO/1000F)	1, 2, 3	1, 2	3	1, 2	3	1, 2	3

	Microsoft Windows* 2000 Advanced Server and Server	Novell NetWare * 5.1	Novell NetWare* 6.0	Caldera UnixWare * 7.1.1	Caldera Open UNIX* 8.0	Red Hat* Linux 7.1	Red Hat* Linux 7.2
Intel PILA8472 (PRO/100 Dual Port)	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
Intel PWLA8470B (PRO/100+ Server)	1, 2, 3	1, 2	3	1	3	1, 2	3
Intel PILA8470D3G1L20 (PRO/100 S Server)	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
Intel PILA8470D3G1P20 (PRO/100 S Server)	1, 2	1, 2		1, 2		1, 2	
Intel PWLA8490XTL20 (PRO/1000XT Gigabit Server Adapter)	1, 2, 3	1, 2	3	1, 2	3	1, 2	3
Intel PWLA8490XTP20 (PRO/1000XT Gigabit Server Adapter)	1, 2	1, 2		1, 2		1, 2	
Modems							
3COM* 3CP5610A	1	1		1		1	
3COM* 3CP3294 (OfficeConnect 56Ke)	1	1		1		1	
USB Devices							
Intel® Create and Share Camera PAC	1	1		1		1	
IOMEGA* ZIP 250MB USB	1	1		1		1	
Logitech* M-UB48 USB Wheel Mouse	1	1		1		1	
Microsoft* 67300248 Intellimouse	1	1		1		1	
Peracom* UH4100K USB Quad Hub	1	1		1		1	
CD-ROM Drives							
Lite-On LTN483		2					
Lite-On LTN526S	2	2		2		2	
Mitsumi* CRMC-FX4824T (ATA33)	1	1		1		1	
Plextor* PX-40TSUW (SCSI-UW)	1, 3	1		1	3	1	3
Samsung* SN-124-Q (ATA33)	1, 3	1	3	1	3	1	3
Samsung* SC-152 (ATA33)	1, 3	1	3	1	3	1	3
TEAC* CD-540E (ATA)	1	1		1		1	
DVD-ROM Drives							
Hitachi* GD-7000 (ATA33)	1	1		1		1	
Pioneer* DVD-303S-A (SCSI-N)	1	1		1		1	
Samsung SD-612 DVDMaster 12E (ATA33)	1	1		1		1	
Toshiba SD-M1502 (ATA33)	1	1		1		1	
Tape Drives							
Sony* SDT-5200			3				
Exabyte* 270004-1097 Mammoth 8mm LVD (SCSI-U2)	1	1		1		1	
HP* Surestore DAT8	2						
Seagate* STD2401LW-S Scorpion 40 DDS-4 DAT (SCSI-U2)	1, 3	1	3	1, 2		1	
Removable Media Drives							
Fujitsu* MCD3130SS 1.3G MO drive (SCSI-N)	1	1		1		1	
IOMEGA* ZIP-IDE250 (ATA)	1	1		1		1	
IOMEGA* JAXX 2GB INT (SCSI-N)	1	1		1		1	

	Microsoft Windows* 2000 Advanced Server and Server	Novell NetWare * 5.1	Novell NetWare* 6.0	Caldera UnixWare * 7.1.1	Caldera Open UNIX* 8.0	Red Hat* Linux 7.1	Red Hat* Linux 7.2
Matsushita* LS120 (ATA)	1	1		1		1	
TEAC* FD-235HF (3.5" floppy)	1, 2	1, 2	3	1	3	1	3
Hard Drives							
HP Superstore 6000i	3				3		3
Fujitsu* Allegro 7LE	3						
Fujitsu* MAJ3364, Allegro 6LE, SCSI Ultra160 SCA, 36GB, 10K RPM	1	1		1		1	
IBM* Deskstar 60GXP, ATA100, 40GB, 7200 RPM	3					2	
IBM* Ultrastar 73LZX, SCSI Ultra160/320 SCA, 9/18/36/73GB, 10K RPM	1	1		1		1	
IBM* Piranha, SCSI Ultra160/320 SCA, 18/36GB, 15K RPM	1	1		1		1	
Quantum* Atlas IV KN09J011/KN09L011, SCSI Ultra160 SCA, 9.1 GB, 7200 RPM	2, 3	2	3		3	2	3
Quantum* Atlas V XC09J011, SCSI Ultra 160 SCA, 9.1 GB, 7200 RPM	2, 3	2	3	2	3	2	3
Quantum* Atlas V XC18J011, SCSI Ultra 160 SCA, 18.3 GB, 7200 RPM	2, 3	2		2		2	
Quantum* Atlas 10K III, SCSI Ultra160/320 SCA, 9/18/36/73GB, 10K RPM	1	1		1		1	
Quantum* Fireball Plus AS, ATA100, 60GB, 7200 RPM	1, 2, 3	1	3	1	3	1	3
Seagate* Barracuda 9LP ST34573LC	3				3		
Seagate* Barracuda ATA III ST310215A							3
Seagate* Barracuda ATA IV ST340016A, ATA100, 40 GB, 7200 RPM	2, 3		3		3		3
Seagate* Barracuda 9 ST19171FC, Fiber Channel, 9.1 GB, 7200 RPM	2, 3	2	3		3		
Seagate* Barracuda 18XL ST39236LC, SCSI Ultra 160 SCA, 9.2 GB, 7200 RPM	3	2	3	2	3	3	3
Seagate* Cheetah 9LP ST34502LC, SCSI Ultra 2 SCA, 4.5 GB, 10K RPM	2	2		2	3	2	3
Seagate* Cheetah 9LP ST39102FC, Fiber Channel, 9.1 GB, 10K RPM	2, 3	2		2		2	3
Seagate* Cheetah X15 36LP ST318452LC							3
Seagate* Cheetah 18LP ST39103FC, Fiber Channel, 9.1 GB, 10K RPM	2	2		2		2	3
Seagate* Cheetah 18XL ST39204LC, SCSI Ultra 160 SCA, 9.2 GB, 10K RPM		2	3	2	3	2	3
Seagate* Cheetah 36LP ST336704LC, SCSI Ultra 160 SCA, 36 GB, 10K RPM		2	3				
Seagate* Cheetah 36ES, SCSI Ultra160 SCA, 36GB, 10K RPM	1	1		1		1	

	Microsoft Windows* 2000 Advanced Server and Server	Novell NetWare * 5.1	Novell NetWare* 6.0	Caldera UnixWare * 7.1.1	Caldera Open UNIX* 8.0	Red Hat* Linux 7.1	Red Hat* Linux 7.2
Seagate* Cheetah 73LP SCSI Ultra160 SCA, 73GB, 10K RPM	1	1		1		1	
Seagate* Medallist Pro* 9140 ST39140W, SCSI Ultra SCA, 4.5 GB, 7200 RPM	2						

[1] Intel® Server Board SDS2, PBA # A58285-307, BIOS Production Release 2 (Build 41), BMC Firmware v. 28, Intel® server chassis SC5100, HSC v. 0.07.

[2] Intel® Server Board SDS2, PBA # A58285-402, BIOS Production Release 2.1 (Build 44), BMC Firmware v. 28, Intel® server chassis SC5100, HSC v. 0.08.

[3] Intel® Server Board SDS2, PBA # A58285-402, BIOS Production Release 2.6 (Build 49), BMC Firmware v. 28, Intel® server chassis SC5100, HSC v. 0.08.

3.2 End of Life (Discontinued) Products

End of life (discontinued) products will not be tested with new BIOS or firmware versions. These products may or may not work with newer versions of Intel BIOS and firmware. Customers are advised to use caution as data loss and/or system instability could occur if these products are used with newer Intel BIOS and firmware versions.

	Microsoft Windows* 2000 Advanced Server and Server	Novell NetWare* 5.1	Caldera UnixWare* 7.1.1	Red Hat* Linux 7.1
PCI SCSI/RAID				

End of Life (Discontinued) Hard Disk Drives								
Make	Family	RPM	Type	Capacity (GB)	Microcode	OS Compatibility	Thermal*	Rotational Vibration*

* This test result is reported by IHV and does not reflect any testing performed by Intel.

[1] Microsoft Windows* 2000 Advanced Server and Server
[2] Novell NetWare* 5.1
[3] Caldera UnixWare* 7.1.1
[4] Red Hat* Linux 7.1