intel.

Intel® RAID Controller SRCMR

Tested Hardware and Operating System List

Revision 1.3

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Enterprise Platforms and Services Marketing

Revision History

Date	Revision Number	Modifications
12/2001	1.0	Initial Release
10/2002	1.1	Updated to include data from latest test runs
3/18/03	1.2	Updated to include data from latest test runs
3/21/2002	1.3	Updated to include data from latest test runs

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1.   Introduction

This document is intended to provide users of the SRCMR RAID controller with a guide to the different operating systems, server boards, chassis, disk drives and other peripherals tested by Intel for use with this RAID controller.

This document will continue to be updated as additional testing is performed, or until the SRCMR RAID controller is no longer in production. Each new release of the document will also include the information from previous releases.

Intel will only provide support for this RAID controller when used in a system configured with the server boards listed and configured with the versions of RAID firmware, system BIOS / firmware, and operating system versions for which the tests were performed. Thorough testing has been performed of the SRCMR with the Intel server boards, with Intel drive enclosures, and with the third party devices listed below; however, it is not practical to test the SRCMR in every possible combination of server board, drive enclosure, hard drive, and peripheral. Sample combinations have been tested to gain added confidence in their inter-compatibility, and every device listed has been tested in one or more configurations.

1.1   Test Overview

Testing performed of the SRCMR RAID controller is classified under two seperate catagories: Compatibility Testing and Stress Testing.

1.1.1   Compatibility Testing

Basic compatibility testing is performed with each supported operating system. Basic compatibility testing validates that the RAID controller 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 additional 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 when used in conjuction with the SRCMR controller installed in a particular server board. 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 installed with an SRCMR 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 the addition of 2-6 third party adapters (depending on chassis used) for a minimum 72 hour test run without injecting errors. 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.
    - o Manufacturer's installation instructions or Intel's best known methods were used for the operating system installation.
    - o No extraordinary workarounds were required during the operating system installation.
    - o The server system behaved as expected during and after the operating system installation.
    - o Application software installed and executed normally.
- Hardware compatibility tests ran to completion without error.
- Test software suites executed successfully
    - o Test and data files were created in the correct directories without error.
    - o Files copied from client to server and back compare to the original with zero errors reported.
    - o Clients remain connected to the server system.
    - o Industry standard test suites run to completion with zero errors reported.

2. SRCMR Firmware Configurations

The following table lists the controller / firmware configurations tested. This document will be updated with additional configurations as new revisions of the SRCMR RAID controller and/or firmware versions for that controller are released. Each configuration is assigned an identifier number which is referenced in the tables throughout this document.

Base System Identifier #	Product Code	Part Number	BIOS Revision
1	SRCMR	A64595-002	Ver 2.32.00-R007
2	SRCMRU	A89114-001	Ver 2.32.00-R015
3	SRCMRU	A89114-001	Ver 2.33.01-R01B
4	SRCMRU	A89114-001	Ver 2.34.01-R040

3.   Operating Systems

The following table provides a list of operating systems tested for compatibility with the SRCMR RAID controller. OS Compatibility testing verifies that the OS will install and function with a basic set of onboard devices.

Caution - The operating systems listed below have been tested for compatibility with the SRCMR RAID controller but the operating system and its associated driver may not have been tested for compatibility with the server board you have chosen to use. Please check the supported operating system list for your server board to verify operating system support compatibility. Intel® will only provide support for Intel RAID Controllers on Intel Server Boards for which the operating system is listed as tested in the server board's Tested Hardware and Operating System List. This document lists testing performed on Intel Server Boards only.

OS Identifier#	Operating System	Base Configuration Tested
1	Caldera OpenUnix* v8.0	3,4
2	Caldera* Linux 3.1	2,3,4
3	Debian* 2.2r6	2,3,4
4	FreeBSD* 4.4 and 4.5	2,3,4
5	Mandrake* 8.1	4
6	Microsoft Windows 2000* Advanced Server, Service Pack 2&3	1,2,3,4
7	Microsoft Windows NT* 4.0, Service Pack 6a	1,2,3,4
8	Novell Netware 5.1, Service Pack 4	1,2,4
9	Novell Netware 6.0, Service Pack 1	1,2,3,4
10	Red Hat Linux 7.0	4
11	Red Hat Linux 7.1	1,2,4
12	Red Hat Linux 7.2	4
13	Red Hat* Linux 7.3	4 [See IG 7.1]
14	Red Hat* Linux 8.0	4,5 [See IG 7.2]
15	SCO Open Server 5*	2,3,4
16	SCO Unixware* 7.1.1	1,2,3,4

17	SuSE* Linux Professional (8.0)	3,4
18	Turbo Linux* 7	3,4
19	Red Hat Advanced Server 2.1[3]	4
20	Red Hat* Linux 6.2	1,2,3
21	Novell Netware* 4.2, Service Pack 6a	1
22	SuSE* Linux 7.0	2,3
23	SuSE* Linux 7.1	2,3
24	SuSE* Linux 7.2	2,3
25	Turbo Linux* 6.5	2,3

1.   The SRCMR with Red Hat 7.3 requires the use of kernel patch 18-5. Full compatibility and stress testing were not performed. Support for this configuration will be limited to simple debug only.
2.   The SRCMR with Red Hat 8.0 requires the use of kernel patch 18-18.8.0. Full compatibility and stress testing were not performed. Support for this configuration will be limited to simple debug only.
3.   The SRCMR with Red Hat Advanced Server requires the use of kernel patch 2.4.9-e.12.i686.

4. Intel Server Boards

This list includes the server board software versions with which the server boards were configured at the time of testing. This document is updated on a quarterly basis, please check the website for information on the latest version available.

Server Board	Microsoft* Windows 2000	Microsoft* Windows NT	Red Hat* Linux v7.3	Red Hat* Linux v8.0	Novell* NetWare v5.1	Novell* NetWare v6.0	Turbo* Linux 7.0	SuSE* Professional 8	Caldera* Unixware 7.1.1	Caldera* OpenUnix v8.0
SCB2[1] — Version Tested: BIOS P19, BMC 63, FRU/SDR 5.0.P, HSC 0.05	X	X	X	X	X	X			X	X
SE7500WV2[1] — Version Tested: BIOS P02, BMC 15, FRU/SDR 5.0.9, HSC 0.07/0.05	X		X		X			X		
SHG2 — Version Tested: BIOS P03, BMC 14, FRU/SDR 5.0.8, HSC 0.10	X	X	X		X	X	X			X
SE7501WV2[1] — BIOS P01, BMC 1.09, FRU/SDR 5.3.5, HSC 0.07/0.05	X			X		X		X		
SE7501BR2 — BIOS P01, BMC 1.08, FRU/SDR 5.3.9, HSC .10	X	X	X	X	X	X	X			X
SE7501HG2 — BIOS P01, BMC .09, FRU/SDR HG 5.3.7, HSC .10	X	X	X	X	X	X	X			X

[1] Testing was performed on the SCSI SKU of this product.

5.   Hard Disk Drives

Hard drive testing has been performed with the SRCMR controller by Intel® Labs, by independent test labs, or by the vendor. Compatibility and stress testing is performed with the latest version of an operating system at the time the validation testing occurred. Although a large sample of configurations were tested, due to the large number of possible configurations, not all hard drives were tested under all operating systems. Customers should refer to the Tested Hardware and Operating System List for the server board being used to verify that the hard drive selected is also on the list for that product as well.

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size (GB)	Tested Operating Systems

5.1   Hard Disk Drives[1]

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size (GB)	Tested Operating Systems
Compaq*		BF01863644	U160/SCA			6,13,14
Fujitsu*	Allegro 5	MAG3182LC	U160/SCA	10K	18GB	2,3,4,5,6,7,8,10,11,16,18
Fujitsu*	Allegro 5 LE	MAE3091LC	U160/SCA	15K	9.1GB	2,3,4,5,6,7,8,10,11,16,18
Fujitsu*	Allegro 7LX	MAM3184MC	U160/SCA	15K	18GB	12
Hitachi	DK32DJ	DK32DJ-18MW	U160/Wide		32GB	19
IBM*	UltraStar 36LZX	07N3250	U160/SCA	15K	18GB	6,13,14
IBM*	UltraStar 36Z15	IC35L018UCPR15	U160/SCA	15K	18GB	6,13,14
IBM*	UltraStar 146ZN	IC35L146UCDY10-0	U320/SCA	10K	146GB	2,3,4,5,6,7,8,10,11,16,18
Maxtor*		KU73J01703B	U160/SCA	10K	73GB	6, 12,13
Maxtor*		KW18J01E-030Z	U160/SCA	10K	18GB	6, 12,13
Maxtor*	Atlas 10K III-U320	KU18J017	U320/SCA	10K	18GB	6,9,14
Maxtor*	Atlas 10K III-U320	KU18J07E	U320/SCA	10K	18GB	6,9,14
Maxtor*	Atlas 10K III-U320	KU73J017	U320/SCA	10K	73GB	6,13,14,15
Quantum*	Atlas	QM309100KN-SCA	U160/SCA	7.2K	9.1GB	2,3,4,5,6,7,8,10,11,16,18

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size (GB)	Tested Operating Systems
Quantum*	Atlas IV	KN09L011	U160/Wide	7.2K	9GB	19,20
Quantum*	Atlas V	KN09J011	U160/SCA	7.2K	9GB	13
Quantum*	Atlas V	XC09J011	U160/SCA	7.2K	9GB	2,4,6,7
Quantum*	Atlas 10K II	TY36J011-01-AE	U160/SCA	10K	36GB	6,12,13,14
Quantum *	Atlas III	KW18J014	U160/SCA	10K	18GB	6,22,23,24
Quantum *	Atlas	XC18J011	U160/SCA	10K	18GB	6,12,13,14
Samsung*		SN-124Q/MMI	U160/SCA	7.2K		6,13,14
Seagate*	Barracuda 9	ST19171FC	U160/FC	7.2K	9GB	6,13,14
Seagate*	Cheetah	ST373405LC	U160/SCA	10K	73GB	12,
Seagate *	Cheetah 73	ST173404LC	U160/SCA	10K	73GB	2,3,4,5,6,7,8,10,11,16, 18, 19
Seagate*	Cheetah 73LP	ST336605LC	U160/SCA	10K	36GB	1
Seagate*	Cheetah 36LP	ST336704LC	U160/SCA	10K	36GB	6,13,14
Seagate*	Cheetah 36ES	ST318406LC	U160/SCA	10K	18GB	9,12
Seagate*	Cheetah 18XL	ST39204LC	U160/SCA	10K	9GB	6,13,14
Seagate*	Cheetah X15 26LP	ST318452LC	U160/SCA	15K	18GB	12,17
Seagate*	Cheeta X15	ST318451LC	U160/SCA	15K	18GB	2,3,4,5,6,7,8,10,11,16,18 , 19
Seagate*	Barracuda 18XL	ST39236LC	U160/SCA	7.2K	36GB	16,25
Seagate*	Barracuda 18XL	ST39236LC	U160/SCA	7.2K	9GB	1,6
Seagate*	Barracuda 9LP	ST34573LC	U160/SCA	7.2K	4.5GB	6,13,14
Seagate*	Cheetah 15K.3	ST373453LC	U320/SCA	15K	73GB	6,13,14
Seagate*	Cheetah X15	ST336732	U320/SCA	15K	26GB	1,15,16

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size (GB)	Tested Operating Systems
	36LP					
Seagate*	Cheetah X15	ST318432LC	U320/SCA	15K	18GB	2,3,4,5,6,7,8,10,11,16, 18, 19
Seagate* Cheetah X15		ST3650W	Ultra2/Wide			6,13,14

1. Hard disks are listed ONLY if they were attached to the SRCMR during testing.

6.   Enclosures, PCI Adapters, and Peripherals

Enclosure, add-in card, and peripheral testing has been performed with the SRCMR controller by Intel® Labs, by independent test labs, or by the vendor. Compatibility and stress testing is performed with the latest version of an operating system at the time the validation testing occurred. Although a large sample of configurations were tested, due to the large number of possible configurations, not all devices were tested under all operating systems, and not all possible combinations or configurations of third party devices were tested for inter-compatability. Customers should refer to the Tested Hardware and Operating System List for the server board being used to verify that the device selected is also on the list for that product as well.

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier

6.1   External[3] Storage

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Adjile*	JGL-33H421C	JGL-33H421C			6,13,14
Andataco*	GigaRAID	8000			6,13,14
Clariion*	FC5051R-A	FC5051R-A	Fibre Channel		6,13,14
Clariion*	FC5700	FC5700	Fibre Channel		2,3,4,5,6,7,8,10,11,16, 18
Compaq*	Storageworks 4314T		U160		2,3,4,5,6,7,8,10,11,16, 18,19
Dell*	PowerVault 201S		U160		2,3,4,5,6,7,8,10,11,16, 18,19
Dell*	PowerVault 211S		U160		2,3,4,5,6,7,8,10,11,16, 18,19
IBM*	EXP/300		U160		2,3,4,5,6,7,8,10,11,16, 18
Nstor*	NexStor	8Lj	U160		2,3,4,5,6,7,8,10,11,16, 18,19
Xyratex*	RS-0800-LVD	RS-0800-LVD	U320		14

6.2   Internal Storage[3]

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Intel®	SR1200		U160/SCA		1,6,9,12,13,14

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Intel®	SR1300		U160/SCA		1,6,9,12,13,14,19
Intel®	SR2200		U320/SCA		1,6,9,12,13,14
Intel®	SR2300		U320/SCA		1,6,9,12,13,14,19
Intel®	SC5100		U160/SCA		1,6,9,12,13,14
Intel®	SC5200		U320/SCA		1,6,9,12,13,14

6.3 CDROM Drives[1]

Lite-ON*	LTN-483	LTN-483	IDE		8
Lite-ON*	LTN-526S	LTN-526S	IDE		6,11,16
Mitsumi*	SR243T1	SR243T1	IDE		19
Panasonic*	AXXDVDFloppy	SR-8177-B	IDE		1,6,9,13,14,17,19
Plextor*	PX-40TSUW				2,3,4,5,6,7,8,10,11,16, 18
Samsung*	CD-Master 24E	SN-124Q/MMI	IDE		6,9,14, 24
Samsung*	CD-Master 52E	SC-152	IDE		6,9,14
Sony*	CDU5211	CDU5211	IDE		1,6,9,12,13, 14
Teac*	CD224E	CD224E			6,13,14
Toshiba*	XM-6401B				2,3,4,5,6,7,8,9,10,11,12,13,15,16,18,20,21,22,23,24,25

6.4 Tape Drives[2]

Exabyte*	Elliant				6,13,14
HP	SuperStore 6000i	C1528F	SCSI		23,24
Quantum*	DLT-400				6,13,14
Quantum*	DLT8000				2,3,4,5,6,7,8,10,11,16, 18
Seagate *	SCORPION 40		SCSI DDS4 DAT		2,3,4,5,6,7,8,10,11,16, 18
Seagate*	STD2401LW				6,13,14
Seagate*	SCORPION 24		DDS4 DAT		2,3,4,5,6,7,8,10,11,16, 18

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Sony*	PCBacker	SDT9000	SCSI-2		6
Sony*	SDX-S500C/BM				6,13,14
Sony*	SDT5200				6,13,14
Sony*	Superstore	Dat8			6,13,14
Sony*	PCBacker II	SDT-11000/PB	Ultra2/wide		9`
Sony*	SDT 9000				2,3,4,5,6,7,8,10,11,16, 18

6.5 Hard Disk Controllers

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Adaptec*	SCSI Card 2940U2W	AHA-2940U2W	PCI		14,19
Adaptec*	SCSI Card 39160	ASC-39160	PCI-64/66		1,6,9,12,13,14, 19
Adaptec*	ASC-29160LP	ASC-29160LP	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
Adaptec*	ASC-29160N	ASC-29160N	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18
Adaptec*	ASC-39160	ASC-39160	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
Adaptec*	ASC-39320	ASC39320	PCI-X133		2,3,4,5,6,7,8,10,11,16, 18
Emulex*	LightPulse LP90002L	LP9002L-F2	FC-HBA PCI64/66		6,14,
Emulex*	LightPulse LP9002-T1	LP9002-T1	FC-HBA PCI64/66		14,19
Emulex*	LightPulse LP8000	LP8000T1	FC-HBA PCI64/66		6,14,
Emulex*	LightPulse LP9402	LP9402	FC-HBA PCI64/66		6,14
Emulex*	LightPulse LP9402DC	LP9402DC	FC-HBA PCI64/66		1
JNI*	FCE6560	FCE6560	PCI-X133		2,3,4,5,6,7,8,10,11,16, 18
LSI Logic*	SYM8951u	SYM8951u			6,13,14
LSI Logic*	SYM22910	SYM22910			6,13,14
LSI Logic*	SYM22915	SYM22915			6,13,14
LSI Logic*	LSI20160	LSI20160	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
LSI Logic*	SYM22902	SYM22902	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
LSI Logic*	SYM22903	SYM22903	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Qlogic*	QLA12160				6,13,14
Qlogic*	QLA2100				6,13,14
QLogic*	QLA2200/66	QLA2200/66	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
QLogic*	QLA2200L	QLA2200L	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
Qlogic*	SANBlade 2300	QLA2310	FC-HBA PCI-X/66		1,6,9,13,19
Symbios*	SYM22902 MiniHAB	SYM22902	PCI-64/33		1,6,9,13,14

6.6 SCSI RAID Controllers

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Adaptec	ASR-2110S	ASR-2110S	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
Adaptec	SCSI RAID 2000S	ASR-2000S	PCI-64/66		14
Adaptec	SCSI RAID 2100S	ASR-2100S	PCI-64/66		14
Adaptec	SCSI RAID 3410S	ASR-3410S	PCI-64/66		14
AMI	4714010232A	Enterprise 1600 (471)	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
AMI	Elite 1600	MegaRAID 493	PCI-64/66		14
ICP-Vortex	GDT4523RZ	GDT4523RZ	PCI-32/66		2,3,4,5,6,7,8,10,11,16, 18
ICP-Vortex	GDT6523RS	GDT6523RS	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18
ICP-Vortex	GDT8623RZ	GDT8623RZ	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
ICP-Vortex	GDT8663RZ	GDT8663RZ	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
Intel	SRCU31L	Goodwin	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18
Intel	SRCS14L	SRCS14L	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
Intel	SRCU31	SRCU31A	PCI-64/33		2,3,4,5,6,7,8,10,11,16, 18
Intel	SRCU32	SRCU32U	PCI-64/66		1,6,9,13,14,19
Intel	SRCZCR	SRCZCR	PCI-64/66		1,6,9,13,14,19
Intel	SRCU42L	SRCU42L	PCI-64/66		1,6,9,13,14,19
Mylex	A170-1-32NB	AcceleRAID 170	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18
Mylex	A170LP-1-16NB	AcceleRAID 170 Low Profile	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Mylex	E2000-4-32BD	eXtremeRAID 2000	PCI-64/33		2,3,4,5,6,7,8,10,11,16, 18
Mylex	AcceleRAID 352	A352-2-32NB	PCI-64/33		14,19
Promise	FastTrakTX2000	FastTrakTX2000	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18

6.7 Network Interface Controllers

3Com*	3C996T				6,13,14
3Com*	3C905T				6,13,14
3COM*	3c996-TX Gigabit Server Adapter	3c996-TX	PCI-X66		2,3,4,5,6,7,8,10,11,16, 18
3Com*	Fast Etherlink XL PCI	3C905C-TX-M	PCI		1,6,9,13,14,19
3Com*	Etherlink Server 10/100 PCI	3C980C-TXM	PCI		1,6,9,12,13,14, 19
3Com*	Gigabit Etherlink Server	3C985B-SX	PCI64		14,19
3Com*	10/100/1000 PCI-X Server	3C996B-T	PCI-X/133		14,19
3Com*	10/100/1000 PCI-X Server	3C996-T	PCI-X/133		14
DLink*	DFE - 530/TX+	DFE - 530/TX+	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18
Intel	PRO/100+ S Server	PILA8470B	PCI-32/33		7
Intel	PRO/100+ S Server	PILA8470D3G1P20	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18
Intel	Pro/100 S Server	PILA8470D3G1L	PCI-32/33		2,3,4,5,6,7,8,10,11,16, 18
Intel	Pro/100 S Dual Port Server	PILA8472D3G1P	PCI64/33		2,3,4,5,6,7,8,10,11,16, 18

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
	adapter				
Intel	PRO/1000XT Gigabit Server Adapter	PILA8490XTP20	PCI-X133		2,3,4,5,6,7,8,10,11,16, 18
Intel	PRO/1000T	PWLA8490T	PCI-64/66		2,3,4,5,6,7,8,10,11,16, 18
Intel	PRO/1000XF Gigabit Server Adapter	PWLA8490XF	PCI-X133		1,6,9,12,13,14, 19
Intel	Pro/1000 MT Server Adapter	PWLA8490MT	PCI-X/133		14,19
Intel	Pro/1000 F Gigabit Server Adapter	PWLA8490SX	PCI64/66		6,9,15
Intel	Pro/1000 XF Server Adapter	PWLA8490XFGL	PCI-X/133		14,19
Intel	Pro/1000 XT Server Adapter	PWLA8490XT	PCI-X/133		1,6,9,13,14,19
Intel	Pro/1000 XT Server Adapter	PWLA8490XTL	PCI-X/133		6,9,13,14
Intel	Pro/1000 MF Server Adapter	PWLA8492MF	PCI-X/133		1,6,9,13,14
Intel	PRO/1000MT Dual Port Server Adapter	PWLA8492MT	PCI-X133		1,9,14
Packet Engines*	Gig-NIC II				6,13,14
Sys Konnect*	SK9843				6,13,14

1. CD Rom drives are listed ONLY if the operating system was installed from this device.
2. Tape drives are listed ONLY if they were attached to the SRCMR.
3. Enclosures are list ONLY if they were attached to the SRCMR.

7.   Installation Guidelines

7.1   Red Hat Linux* 7.3 segmentation fault with an Intel® RAID controller installed

Issue: When using the normal installation of Red Hat Linux* 7.3 with the 2.4.18-3 kernel and an Intel RAID controller installed, the following issue is seen:

1. A shutdown command results in a segmentation fault.

2. It is not possible to use some tools such as storcon.

3. Accessing the proc file system (via cat /proc/scsi/gdth/#, where "#" stands for the controller number, also results in a segmentation fault.

This issue occurs only when using Red Hat kernel version 2.4.18-3 installed with SMP support, and it is not server board or RAID controller specific.

Implication: The Red Hat Linux 7.3, 2.4.18-3 SMP kernel does not function properly with the Intel RAID controller driver. See https://rhn.redhat.com/errata/RHBA-2002-292.html.

Guideline: Red Hat Linux kernel version 2.4.18-5 resolves this issue.

Status: This issue has been resolved in Red Hat Linux kernel version 2.4.18-5.

7.2   Red Hat Linux* 8.0 segmentation fault with an Intel® RAID controller installed

Issue: When using the normal installation of Red Hat Linux* 8.0 with the 2.4.18-14 kernel and an Intel RAID controller installed, the following issue is seen:

4. A shutdown command results in a segmentation fault.

5. It is not possible to use some tools such as storcon.

6. Accessing the proc file system (via cat /proc/scsi/gdth/#, where "#" stands for the controller number, also results in a segmentation fault.

This issue occurs only when using Red Hat kernel version 2.4.18-14 installed with SMP support, and it is not server board or RAID controller specific.

Implication: The Red Hat Linux 7.3, 2.4.18-14 SMP kernel does not function properly with the Intel RAID controller driver. See https://rhn.redhat.com/errata/RHBA-2002-292.html.

Guideline: Red Hat Linux kernel version 2.4.18-18.8.0 resolves this issue.

Status: This issue has been resolved in Red Hat Linux kernel version 2.4.18-5.