



# **Intel<sup>®</sup> RAID Controller SRCU42E**

## ***Tested Hardware and Operating System List***

**Revision 1.0**

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**Enterprise Platforms and Services Marketing**

## *Revision History*

Date	Revision Number	Modifications
10/30/04	1.0	Initial Release

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# 1. Introduction

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This document is intended to provide users of the SRCU42E 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 SRCU42E 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 SRCU42E 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 SRCU42E 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 SRCU42E RAID controller is classified under two separate categories: Compatibility Testing and Stress Testing.

### 1.1.1 Basic Installation 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.

**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.

#### 1.1.1.1 Support Commitment for Basic Installation Testing

Intel commits to provide the following level of customer support for operating systems that receive only basic installation testing:

- Intel will provide and test operating system drivers for each of the server board's integrated controllers, provided that the controller vendor has a driver available upon request. Vendors will not be required by Intel to develop drivers for operating systems that they do not already support. This may limit the functionality of certain server board integrated controllers.

- Intel® will support customer issues that involve installation and/or functionality of operating system with the server board's integrated controllers only if a driver has been made available.
- Intel will NOT provide support for issues related to use of any add-in adapters or peripherals installed in the server system when an operating system that received basic installation testing only is in use.
- Support is defined as assistance in root causing issues, and determining 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 vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.

### 1.1.2 Adapter / Peripheral Compatibility and Stress Testing

Adapter / Peripheral Compatibility and Stress testing is performed only on the most current release of a supported operating system at the time of a given validation run. The Adapter / Peripheral Compatibility and Stress testing process consists of three areas: Base Platform, Adapter Compatibility, and Stress.

**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.

**Adapter Compatibility:** Adapter compatibility validation (CV) testing uses test suites to gain an accurate view of how the server performs with a wide variety of adapters under the primary supported operating systems. These tests are designed to show hardware compatibility between the cards and the server platform and include functional testing only. No heavy stressing of the systems or the cards is performed for CV testing.

**Stress Testing:** This test sequence uses configurations that include add-in adapters in all available slots, (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.

#### 1.1.2.1 Support Commitment for Adapter / Peripheral Compatibility and Stress Testing

Intel commits to provide the following level of customer support for operating systems that receive Adapter / Peripheral Compatibility and Stress testing:

- 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.
- Support is defined as assistance in root causing issues, and determining 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 vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.

- Intel® will provide and test operating system drivers for each onboard video, network, and storage controller.
  - Intel will enable vendors 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.

## 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.

## 2. SRCU42E Firmware Configurations

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The following table lists the controller / firmware configurations tested. This document will be updated with additional configurations as new revisions of the SRCU42E 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.

- ⇒ Intel® will only provide support for adapters and peripherals under the specified adapter configuration and operating systems versions with which they were tested.

Base System Identifier #	Product Code	Part Number	Firmware Revision
1	SRCU42E	C77062-001	Ver. 514E



### 3. Operating Systems

The following table provides a list of supported operating systems for the Intel® RAID Controller SRCU42E. Each of the listed operating systems was tested for compatibility with Intel® RAID Controller SRCU42E configuration listed in Section 2 of this document. Operating systems are supported only with the specified base system configuration(s) with which they were tested.

The following table also indicates whether each operating system received Basic Installation Testing, or Adapter / Peripheral Compatibility and Stress Testing. For information on the support commitments for Basic Installation Testing vs. Adapter / Peripheral Compatibility and Stress Testing, please reference Section 1 of this document.

Any variations to the standard operating system installation process are documented in the Installation Guidelines section of this document. If there are no installation guidelines noted in the following table, then the operating system installed as expected using manufacturer's installation instructions or Intel's best-known methods.

- ⇒ **Caution** - The operating systems listed below have been tested for compatibility with the SRCU42E 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.

Ident #	Operating System	Base System Configuration Tested & Type of Testing	Notes
1	Microsoft* Windows* 2003	Configuration 1 – Compatibility & Stress	
2	Microsoft* Windows* Server 2003 Small Business Server	Configuration 1 – Basic Installation	Application portion of the package was not tested and is not supported.
3	Microsoft* Windows* 2000 Advanced Server, Service Pack 4	Configuration 1 – Compatibility & Stress	
4	Microsoft* Windows* Small Business Server 2000	Configuration 1 - Basic Installation	Application portion of the package was not tested and is not supported.
5	Microsoft* Windows* XP	Configuration 1 – Compatibility & Stress	
7	Red Hat* Linux 9.0	Configuration 1 – Compatibility & Stress	

9	Red Hat* Advanced Server 2.1	Configuration 1 – Compatibility & Stress	
10	Red Hat* Advanced Server 3.0	Configuration 1 – Compatibility & Stress	
11	Novell* NetWare 6.5	Configuration 1 – Compatibility & Stress	
15	Novell* NetWare 5.1	Configuration 1 – Basic Installation	
16	SCO* Open Server 5.0.7	Configuration 1 – Basic Installation	
17	SCO* UnixWare 7.1.3	Configuration 1 – Basic Installation	
18	SuSE 9.0	Configuration 1 – Basic Installation	
19	SuSE 9.1	Configuration 1 – Basic Installation	
20	SuSE Linux Enterprise Server 9.0	Configuration 1 – Compatibility & Stress	
21	Red Hat* Advanced Server 3.0 EM64T	Configuration 1 – Compatibility & Stress	
22	SuSE Linux Enterprise Server 9.0 EM64T	Configuration 1 – Compatibility & Stress	

### 3.1 Operating System Certifications

Listed below are the operating systems that Intel® certify with the Intel® RAID Controller SRCU42E. However, the customer is responsible for their own certification from the individual operating system vendors. In many cases, the customer may leverage their operating system certifications from Intel's testing. See the "Comments" section next to each operating system in the table below for additional information. Intel's certifications, pre-certification, and operating system testing may help reduce some of the risk in achieving customer certifications with the operating system vendors.

Operating System	Certification Listing	Comments
Microsoft* Windows* 2003 Enterprise Server	SRCU42E	OEM must request certification by Microsoft* or their specific product. <a href="http://www.microsoft.com/hwdq/hcl/search.asp">http://www.microsoft.com/hwdq/hcl/search.asp</a> (Search on SRCU42E) <a href="http://developer.intel.com/design/servers/whql.htm">http://developer.intel.com/design/servers/whql.htm</a>
Microsoft* Windows* 2000 Advanced Server	SRCU42E	OEM must request certification by Microsoft* for their specific product. <a href="http://www.microsoft.com/hwdq/hcl/search.asp">http://www.microsoft.com/hwdq/hcl/search.asp</a> (Search on SRCU42E) <a href="http://developer.intel.com/design/servers/whql.htm">http://developer.intel.com/design/servers/whql.htm</a>

Operating System	Certification Listing	Comments
Novell NetWare* 5.1 and 6.5	SRCU42E	Novell checks Intel's test results, certifies (if appropriate), and posts the certificate on their web site. Customer can leverage the Intel certification, if customer product meets the operating system vendor standard. <a href="http://developer.novell.com/yes">http://developer.novell.com/yes</a>

## 4. Intel® Server Boards

This list includes the Intel® Brand 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.

### 4.1 32 Bit OS's

Server Board				Microsoft* Windows* 2003	Microsoft* SBS 2003	Microsoft* Windows* 2000	Microsoft* SBS 2000	Microsoft* Windows* XP	Red Hat* Linux v9.0	Red hat* Linux AS2.1	Red hat* Linux AS3.0	Novell* NetWare v6.5	SuSE* Linux ES 9.0	SuSE* Professional9.0	Open Server* 5.0.7	UnixWare* 7.1.3			
<b>SE7520BD2</b>				<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>		
<b>BIOS</b>	<b>BMC</b>	<b>FRU/SDR</b>	<b>HSC</b>																
P3.1	N/A	6.4.1	1.12																
<b>SE7520AF2</b>				<b>X</b>		<b>X</b>					<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>				<b>X</b>	
<b>BIOS</b>	<b>BMC</b>	<b>FRU/SDR</b>	<b>HSC</b>																
P02	N/A	6.4.1	1.12																
<b>SE7320SP2</b>				<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>				<b>X</b>	
<b>BIOS</b>	<b>BMC</b>	<b>FRU/SDR</b>	<b>HSC</b>																
P05	2.40	1.20	1.12																
<b>SE7525GP2</b>				<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>				<b>X</b>	
<b>BIOS</b>	<b>BMC</b>	<b>FRU/SDR</b>	<b>HSC</b>																
P05	2.4	1.20	1.12																
<b>SR7520JR2</b>				<b>X</b>		<b>X</b>			<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>				<b>X</b>	
<b>BIOS</b>	<b>BMC</b>	<b>FRU/SDR</b>	<b>HSC</b>																
P02	N/A	6.2.1	N/A																

<sup>1</sup> Testing was performed on the SCSI SKU of this product.

## 5. Enclosures, PCI Adapters, and Peripherals

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Enclosure, add-in card, and peripheral testing has been performed with the SRCU42E 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-compatibility. 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.

Add-in adapter 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 system 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 and peripherals were tested under all operating systems.

Any variations to the standard adapter installation process or to expected adapter functionality are documented in the Installation Guidelines section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, these are referenced in the following table. If there are no installation guidelines noted in the following table, then the adapter installed and functioned as expected using manufacturer's installation instructions or Intel's best-known methods.

- ⇒ Testing of adapters cards normally is performed with unused add-in adapters and onboard controller expansion ROMs disabled in BIOS Setup. Intel recommends that customers disable the option ROM for add-in controllers and/or the on-board controllers when not booting from the controller or needing to use its built in utilities.

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
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### 5.1 External<sup>3</sup> Storage

Dell*	PowerVault 201S		U160		1,3,7,10,11,21,22
Dell*	PowerVault 211S		U160		1,3,7,10,11,21,22
Dell*	PowerVault 220S		U320	Tested with Microsoft* Cluster Server	1,3,7,10,11,21,22
StorCase*	S10A155		U320		1,3,7,10,11
StorCase*	S10A172		U320	Tested with Microsoft* Cluster Server	1,3,7,10,11

### 5.2 Internal Storage<sup>3</sup>

Intel®	SC5300		U320/SCA		1,3,7,10,11,18,20,21,22
Intel®	SC5250-E		U320/SCA		1,3,5,7,9,10,11,16,17,18,20,21,22
Intel®	SC5275-E		U320/SCA		1,3,5,7,9,10,11,16,17,18,20,21,22
Intel®	SR1300		U320/SCA		1,3,5,7,9,10,11,16,17,18,20,21,22
Intel®	SR2400		U320/SCA		1,3,5,7,9,10,11,16,17,18,20,21,22

### 5.3 CDROM Drives<sup>1</sup>

Sony*	CDU5211	CDU5211	IDE		1,3,7,10,11,18,20,21,22
Panasonic*	AXXDVDFloppy	SR-8177-B	IDE		1,3,7,9,10

### 5.4 Tape Drives<sup>2</sup>

Sony*	SDX-500	SDX-500C/TB	Ultra2/wide		1,3
Sony*	PCBacker II	SDT-11000/PB	Ultra2/wide		1,3
Seagate *	SCORPION 40		SCSI DDS4		1,3

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
			DAT		
Quantum*	DLT8000				1,3,10
Sony*	SDT 9000				1,3,10
Seagate*	SCORPION 24	STD2401LW	DDS4 DAT		1,3,7,10,11,21,22
<b>5.5 Hard Disk Controllers</b>					
Adaptec*	ASC-39320	ASC39320	PCI-X133		1,3,10
Adaptec*	ASC-39160	ASC-39160	PCI-64/66		3,10
Emulex*	LightPulse LP9402	LP9402	FC-HBA PCI64/66		1,3,10,11
LSI Logic*	LSI20160	LSI20160	PCI64/66		1,3,6,10
LSI Logic*	LSI20160L	LSI20160L	PCI-64/66		1,3,6,10
QLogic*	QLA2200L	QLA2200L	PCI-64/66		1,3,79,10,11

## 5.6 SCSI RAID Controllers

Adaptec*	SCSI RAID 2120S	ASR-2120S	PCI-64/66		1,3,5,10,11
Adaptec*	SCSI RAID 2200S	ASR-2200S/64MB	PCI		1,3,5,10,11
Adaptec*	SCSI RAID 3410S	ASR-3410S	PCI-64/66		1,3,5,10,11
Intel®	SRCU32	SRCU32U	PCI-64/66		1,3,5,10,11
Intel®	SRCU42L	SRCS42L	PCI-64/66		1,3,5,10,11
Intel®	SRCS16	SRCS16	PCI-64/66		1,3,5,10,11
Intel®	SRCU41L	SRCU41L	PCI-64/66		1,3,5,10,11
Intel®	SRCU42X	SRCU42X	PCI-Express		1,3,5,10,11

## 5.7 Network Interface Controllers

Intel®	Pro/100 S Server	PILA8470D3G1L	PCI-32/33		1,3,5,7,10,11
Intel®	Pro/100 S Dual Port Server adapter	PILA8472D3G1P	PCI64/33		1,3,7

Manufacturer	Model Name	Model Number	Interface	Comments	Operating System Identifier
Intel®	PRO/1000XT Gigabit Server Adapter	PILA8490XTP20	PCI-X133		1,3,7
Intel®	PRO/1000T	PWLA8490T	PCI-64/66		1,3,5,10,11,21
Intel®	Pro/1000 XT Server Adapter	PWLA8490XT	PCI-X/133		1,3,5,10,11,21
Intel®	Pro/1000 XT Server Adapter	PWLA8490XTL	PCI-X/133		1,3,5,10,11,21
Intel®	Pro/1000 MF Server Adapter	PWLA8492MF	PCI-X/133		1,3,7,10,11
Intel®	PRO/1000MT Dual Port Server Adapter	PWLA8492MT	PCI-X133		1,3,5,10,11

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 SRCU42E.
3. Enclosures are list ONLY if they were attached to the SRCU42E.



## 6. Hard Disk Drives

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Enclosure, add-in card, and peripheral testing has been performed with the SRCU42E controller by Intel® Labs, by independent test labs, or by the vendor. The SRCU42E controller is a 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-compatibility. 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.

Add-in adapter 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 system 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 and peripherals were tested under all operating systems.*

Any variations to the standard adapter installation process or to expected adapter functionality are documented in the Installation Guidelines section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, these are referenced in the following table. If there are no installation guidelines noted in the following table, then the adapter installed and functioned as expected using manufacturer's installation instructions or Intel's best-known methods.

- ⇒ Testing of adapters cards normally is performed with unused add-in adapters and onboard controller expansion ROMs disabled in BIOS Setup. Intel recommends that customers disable the option ROM for add-in controllers and/or the on-board controllers when not booting from the controller or needing to use its built in utilities.

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size (GB)	Tested Operating Systems
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## 6.1 Hard Disk Drives<sup>1</sup>

Fujitsu*		MAP3147NC	U320	10K	147GB	1,3,5,7,10,11
Fujitsu*	Allegro 5	MAG3182LC	U160/SCA	10K	18GB	1,3,10
Fujitsu*	Allegro 7LX	MAM3184MC	U160/SCA	15K	18GB	1,3,10
Fujitsu*		MAS3184NC	U320	15K	18GB	1,3,5,7,18,21,22
Fujitsu*	Allegro 7 LE	MAN3367MC	U160/SCA	10K	37GB	1,3,7,10
Fujitsu*		MAP3367NC	U320	10K	37GB	1,3,5,7,11,18,21,22
Fujitsu*		MAS3367NC	U320	15K	37GB	1,3,5,7,11,18,21,22
Fujitsu*		MAP3735NC	U320	10K	73GB	1,3,5,7,11,18,21,22
Fujitsu*		MAS3735NC	U320	15K	73GB	1,3,5,7,11,18,21,22
Fujitsu*	Allegro 5 LE	MAE3091LC	U160/SCA	15K	9GB	1,3,7,10
Hitachi*	Ultrastar 146Z10	IC35L146UCDY10	U320/SCA	10K	146GB	1,3,5,7,18,19,21,22
Hitachi*	Ultrastar 146Z10	IC35L018UCDY10	U320/SCA	10K	18GB	1,3,5,7,18,19,21,22
Hitachi*	Ultrastar 146Z10	IC35L036UCDY10	U320/SCA	10K	36GB	1,3,5,7,18,19,21,22
Hitachi*	Ultrastar 146Z10	IC35L073UCDY10	U320/SCA	10K	73GB	1,3,5,7,18,19,21,22
IBM*	UltraStar 146ZN	IC35L146UCDY10	U320/SCA	10K	146GB	1,3,7,10,11,16,17
IBM*	UltraStar 36Z15	IC35L018UCPR15	U160/SCA	15K	18GB	3,5,10
IBM*	UltraStar 73LZX	IC35L036UCD210	U160/SCA	10K	36GB	1,3,9
Maxtor*	Atlas 10K IV	8B146L0	U320/SCA	10K	146GB	1,3,5,7,18,19,21,22

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size (GB)	Tested Operating Systems
Maxtor*	Atlas 10K IV	8B146J0	U320/SCA	10K	146GB	1,3,5,7,18,19,21,22
Maxtor*	Atlas 10K III-U320	KU18J017	U320/SCA	10K	18GB	1,3,6,9
Maxtor*	Atlas 10K III-U320	KU18J07E	U320/SCA	10K	18GB	3,5,10
Maxtor*	Atlas 10K IV	8B036L0	U320	10K	36GB	1,3,5,7,18,19,21,22
Maxtor*	Atlas 10K IV	8B036J0	U320/SCA	10K	36GB	1,3,5,7,18,19,21,22
Maxtor*	Atlas 10K III-U320	KU73J017	U320/SCA	10K	73GB	1,3,9
Maxtor*	Atlas 10K IV	8B073L0	U320	10K	73GB	1,3,5,7,18,19,21,22
Maxtor*	Atlas 10K IV	8B073J0	U320/SCA	10K	73GB	1,3,5,7,18,19,21,22
Quantum*	Atlas 10K III	KW18J014	U320/SCA	10K	18GB	3,5,10
Quantum*	Atlas 10K III	KW36J011	U160/SCA	10K	36GB	1,3,9
Quantum*	Atlas IV	KN09J011	U160/SCA	7.2K	9GB	1,3,7,9,10
Quantum*	Atlas IV	KN09L011	U160/Wide	7.2K	9GB	1,3,7,9,10
Seagate *	Cheetah 73	ST173404LC	U160/SCA	10K	73GB	3,5,10
Seagate*	Cheetah 36ES	ST318406LC	U160/SCA	10K	18GB	1,3,7,9,10
Seagate*	Cheetah X15	ST318451LC	U160/SCA	15K	18GB	1,3,7,9,10
Seagate*	Cheetah X15	ST318432LC	U320/SCA	15K	18GB	1,3,7,9,10
Seagate*	Cheetah X15	ST318452LC	U160/SCA	15K	18GB	1,3,9
Seagate*	Cheetah 15K.3	ST318453LC	U320/SCA	15K	18GB	1,3,7,9,10,11,16,17
Seagate*	Cheetah 73LP	ST336605LC	U160/SCA	10K	36GB	1,3,9
Seagate*	Cheetah 10K.6	ST336607LC	U320/SCA	10K	36GB	1,3,7,9,10,11,16,17, 18,19,20,21,22
Seagate*		ST336732LC	U320/SCA	15K	36GB	1,3,5,7,11,15,16,17,18,19,21,21,22

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size (GB)	Tested Operating Systems
Seagate*		ST336432LC	U320/SCA	15K	36GB	1,3,5,7,11,15,16,177,18,19,21,21,22
Seagate*	Cheetah 15K.3	ST373453LC	U320/SCA	15K	73GB	1,3,7,9,10,11,16,17,18,19,20,21,22
Seagate*	Barracuda 18XL	ST39236LC	U160/SCA	7.2K	9GB	1,3,9
Seagate*	Cheetah 18XL	ST39204LC	U160/SCA	10K	9GB	1,3,7,9,10
Seagate*	Barracuda 18XL	ST39236LC	U160/SCA	7.2K	9GB	1,3,9

1. Hard disks are listed ONLY if they were attached to the SRCU42E during testing.

## 7. Installation Guidelines

### 7.1 SuSE 9.1 Professional Kernel version 2.6.5-7.75-smp data integrity issue.

**Issue:** Silent data corruption can occur when running SuSE Linux 9.1 Professional with the release kernel, 2.6.4-52-smp. This problem was seen across all platforms tested including testing performed on Intel and non-Intel server boards. A newer kernel version (2.6.5-7.75-smp or newer) appears to fix the issue.

Intel policy provides server board support only for the major releases of non-enterprise Linux products. This is because interim kernel releases for these operating systems require recompiling the Intel RAID, fibre channel, ROMB, and similar non-shipping drivers. Recompiled drivers would also then need to be re-tested for compatibility when a new Linux kernel is released.

**Implication:** Although a base installed is performed using SuSE Linux 9.1, the initial release of this OS is not supported due to data integrity issues within the OS.

**Guideline:** Customers wishing to use SuSE 9.1 Professional are advised to recompile the drivers using kernel 2.6.5-7.75-smp or newer; and perform their own validation testing for reliability and compatibility with their system configuration.

**Status:** SuSE 9.1 is supported for basic installation only and must be updated to kernel version 2.6.5-7.75-smp or newer.