



**ORACLE**

**SPC BENCHMARK 2™  
FULL DISCLOSURE REPORT**

**ORACLE CORPORATION  
ORACLE ZFS STORAGE ZS4-4 APPLIANCE**

**SPC-2™ V1.5**

**Submitted for Review: March 17, 2015  
Submission Identifier: B00072**

## **First Edition – March 2015**

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# AUDIT CERTIFICATION



Steven Johnson  
Oracle Corporation  
500 Eldorado Blvd.  
Broomfield, Co 80021

March 16, 2015

The SPC Benchmark 2™ Reported Data listed below for the **Oracle ZFS Storage ZS4-4 Appliance** were produced in compliance with the SPC Benchmark 2™ V1.5 Onsite Audit requirements.

SPC Benchmark 2™ 1.5 Reported Data	
Tested Storage Product (TSP) Name: Oracle ZFS Storage ZS4-4 Appliance	
Metric	Reported Result
SPC-2 MBPS™	31,486.23
SPC-2 Price-Performance	\$17.09/SPC-2 MBPS™
ASU Capacity	48,649.759 GB
Data Protection Level	Protected 2 (Mirroring)
Total Price (including three-year maintenance)	\$538,049.73
Currency Used	U.S. Dollars
Target Country for availability, sales and support	USA

The following SPC Benchmark 2™ Onsite Audit requirements were reviewed and found compliant with V1.5 of the SPC Benchmark 2™ Specification:

- A Letter of Good Faith, signed by a senior executive.
- The following Data Repository storage items were verified by physical inspection and documentation supplied by Oracle Corporation:
  - ✓ Physical Storage Capacity and requirements.
  - ✓ Configured Storage Capacity and requirements.
  - ✓ Addressable Storage Capacity and requirements.
  - ✓ Capacity of each Logical Volume and requirements.
  - ✓ Capacity of the Application Storage Unit (ASU) and requirements.
- The total Application Storage Unit (ASU) Capacity was filled with random data prior to the execution of the SPC-2 Tests.

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## AUDIT CERTIFICATION (CONT.)

Oracle ZFS Storage ZS4-4 Appliance  
SPC-1 Audit Certification

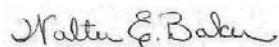
Page 2

- An appropriate diagram of the Benchmark Configuration/Tested Storage Configuration.
- Physical verification of the components to match the above diagram
- Listings and commands to configure the Benchmark Configuration/Tested Storage Configuration.
- Documentation that no customer tunable parameter or option was changed from its default value.
- The following Host System items were verified by physical inspection and documentation supplied by Oracle Corporation:
  - ✓ Required Host System configuration information.
  - ✓ The TSC boundary within the Host System.
- The following SPC-2 Workload Generator information was verified by physical inspection and documentation supplied by Oracle Corporation:
  - ✓ The presence and version number of the Workload Generator on each Host System.
  - ✓ Commands and parameters used to configure the SPC-2 Workload Generator.
- The execution of each Test, Test Phase, and Test Run was observed and found compliant with all of the requirements and constraints of Clauses 6, 7 and 12 of the SPC-2 Benchmark Specification.
- The Test Results Files and resultant Summary Results Files received from Oracle Corporation for each of the following were authentic, accurate, and compliant with all of the requirements and constraints of Clauses 6, 7 and 12 of the SPC Benchmark 2™ Specification:
  - ✓ Data Persistence Test
  - ✓ Large File Processing Test
  - ✓ Large Database Query Test
  - ✓ Video on Demand Delivery Test
- There were no differences between the Tested Storage Configuration and Priced Storage Configuration.
- The submitted pricing information met all of the requirements and constraints of Clause 9 of the SPC Benchmark 2™ Specification.
- The Full Disclosure Report (FDR) met all of the requirements in Clause 10 of the SPC Benchmark 2™ Specification.
- This successfully audited SPC measurement is not subject to an SPC Confidential Review.

### Audit Notes:

There were no audit notes or exceptions.

Respectfully,



Walter E. Baker  
SPC Auditor

Storage Performance Council  
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# LETTER OF GOOD FAITH

**ORACLE**

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January 20, 2015

From:  
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**Steven A. Johnson**  
500 Eldorado Blvd.  
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To: Walter Baker  
Gradient System  
643 Blair Island road, Suite 103  
Redwood City, CA 94063

Subject: SPC-2 Letter of Good Faith for the Oracle's Sun ZFS Storage ZS4-4

Oracle Corporation is the SPC-2 Test Sponsor for the above listed product. To the best of our knowledge and belief, the required SPC-2 benchmark results and materials we have submitted for that product are complete, accurate, and in full compliance with V1.5 of the SPC-2 benchmark specification.

In addition, we have reported any items in the Benchmark Configuration and execution of the benchmark that affected the reported results even if the items are not explicitly required to be disclosed by the SPC-2 benchmark specification.

Sincerely,

  
\_\_\_\_\_  
Scott Tracy - Vice President

1-21-15  
\_\_\_\_\_  
Date of Signature

## EXECUTIVE SUMMARY

### Test Sponsor and Contact Information

Test Sponsor and Contact Information	
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### Revision Information and Key Dates

Revision Information and Key Dates	
<b>SPC-2 Specification revision number</b>	V1.5
<b>SPC-2 Workload Generator revision number</b>	V1.2
<b>Date Results were first used publicly</b>	March 17, 2015
<b>Date FDR was submitted to the SPC</b>	March 17, 2015
<b>Date the TSC will be available for shipment to customers</b>	currently available
<b>Date the TSC completed audit certification</b>	March 16, 2015

### Tested Storage Product (TSP) Description

Oracle's ZFS Storage ZS4-4 is a high-performance storage system that offers enterprise-class SAN and NAS capabilities with industry-leading Oracle Database integration, in a cost-effective high-availability configuration. The ZFS Storage ZS4-4 offers simplified set up and management combined with industry-leading storage analytics and a performance-optimized platform that uses specialized Read and Write Flash-bases SSD caching devices. The ZFS Storage ZS4-4 can scale to 1.5 TB Memory, 120 CPU cores, and 3,500 TB capacity, with up to 12.8 TB of Flash Cache in a high-availability configuration. ZFS Storage Appliances deliver additional economic value bundled data services such as file- and block-level protocols including connectivity over InfiniBand, Compression, Deduplication, Thin provisioning, DTrace Analytics, Virus Scan, Snapshots, Triple Mirror, Triple Parity RAID, Phone-home, NDMP, Clustering, etc."

## SPC-2 Reported Data

SPC-2 Reported Data consists of three groups of information:

- The following SPC-2 Primary Metrics, which characterize the overall benchmark result:
  - SPC-2 MBPS™
  - SPC-2 Price Performance™
  - Application Storage Unit (ASU) Capacity
- Supplemental data to the SPC-2 Primary Metrics.
  - Total Price
  - Data Protection Level
  - Currency Used
  - Target Country
- Reported Data for each SPC Test: Large File Processing (LFP), Large Database Query (LDQ), and Video on Demand Delivery (VOD) Test.

**SPC-2 MBPS™** represents the aggregate data rate, in megabytes per second, of all three SPC-2 workloads: Large File Processing (LFP), Large Database Query (LDQ), and Video on Demand (VOD).

**SPC-2 Price-Performance™** is the ratio of **Total Price** to **SPC-2 MBPS™**.

**ASU (Application Storage Unit) Capacity** represents the total storage capacity available to be read and written in the course of executing the SPC-2 benchmark.

**Total Price** includes the cost of the Priced Storage Configuration plus three years of hardware maintenance and software support as detailed on page 17.

**Data Protection Level of Protected 2** using **Mirroring**, which configures two or more identical copies of user data.

***Protected 2:** The single point of failure of any **component** in the configuration will not result in permanent loss of access to or integrity of the SPC-2 Data Repository.*

**Currency Used** is formal name for the currency used in calculating the **Total Price** and **SPC-2 Price-Performance™**. That currency may be the local currency of the **Target Country** or the currency of a difference country (*non-local currency*).

The **Target Country** is the country in which the Priced Storage Configuration is available for sale and in which the required hardware maintenance and software support is provided either directly from the Test Sponsor or indirectly via a third-party supplier.

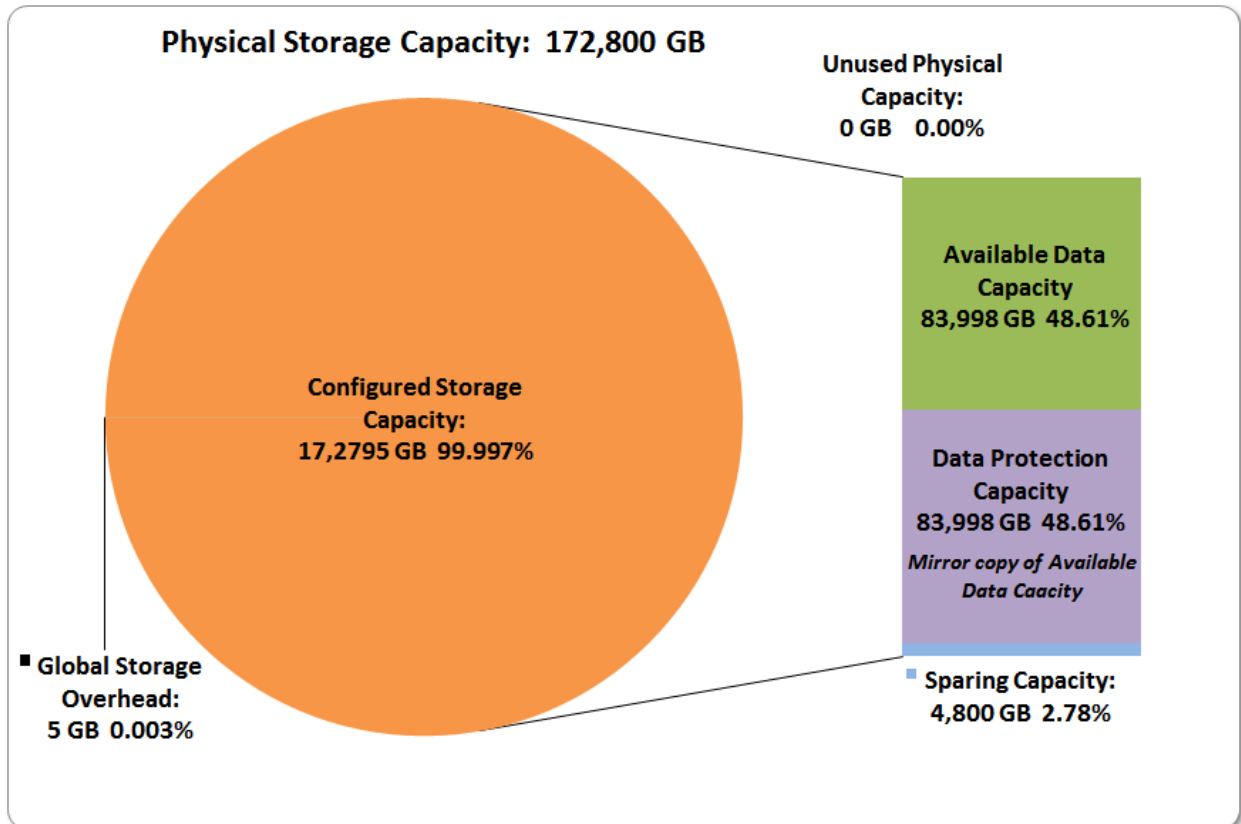
## SPC-2 Reported Data (continued)

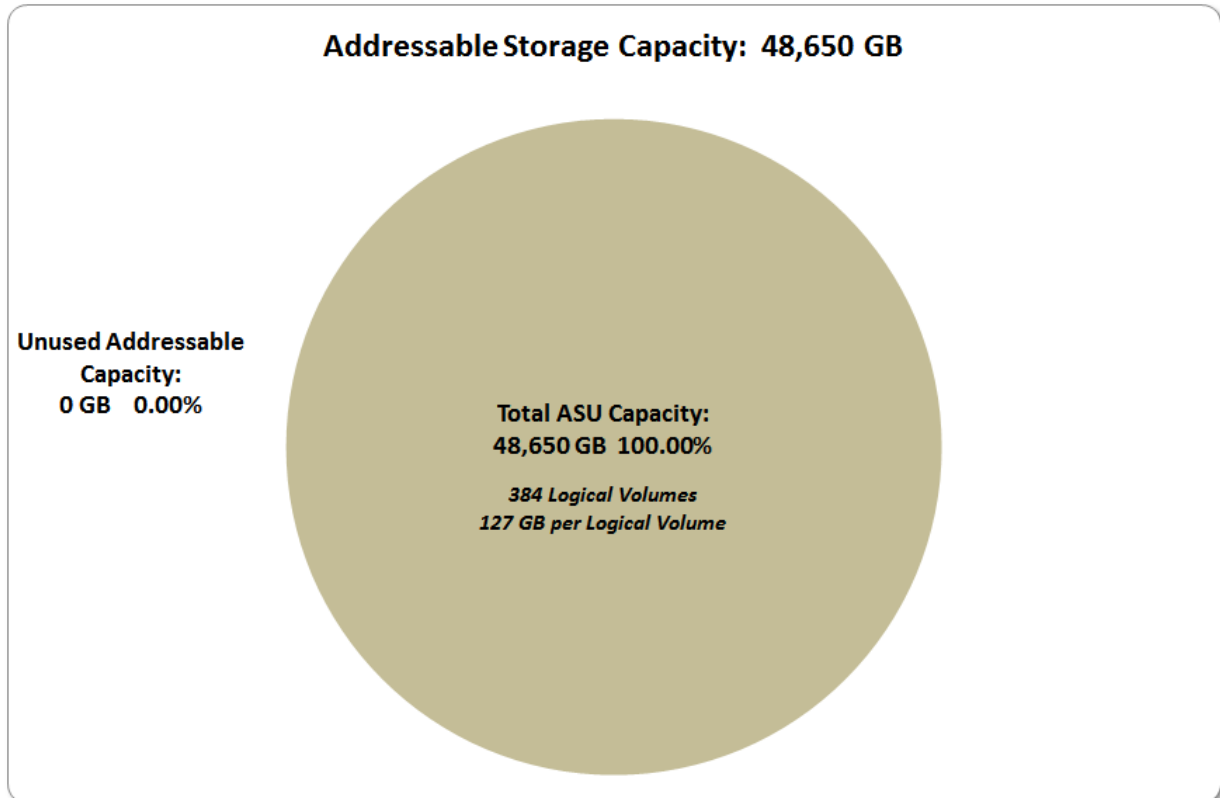
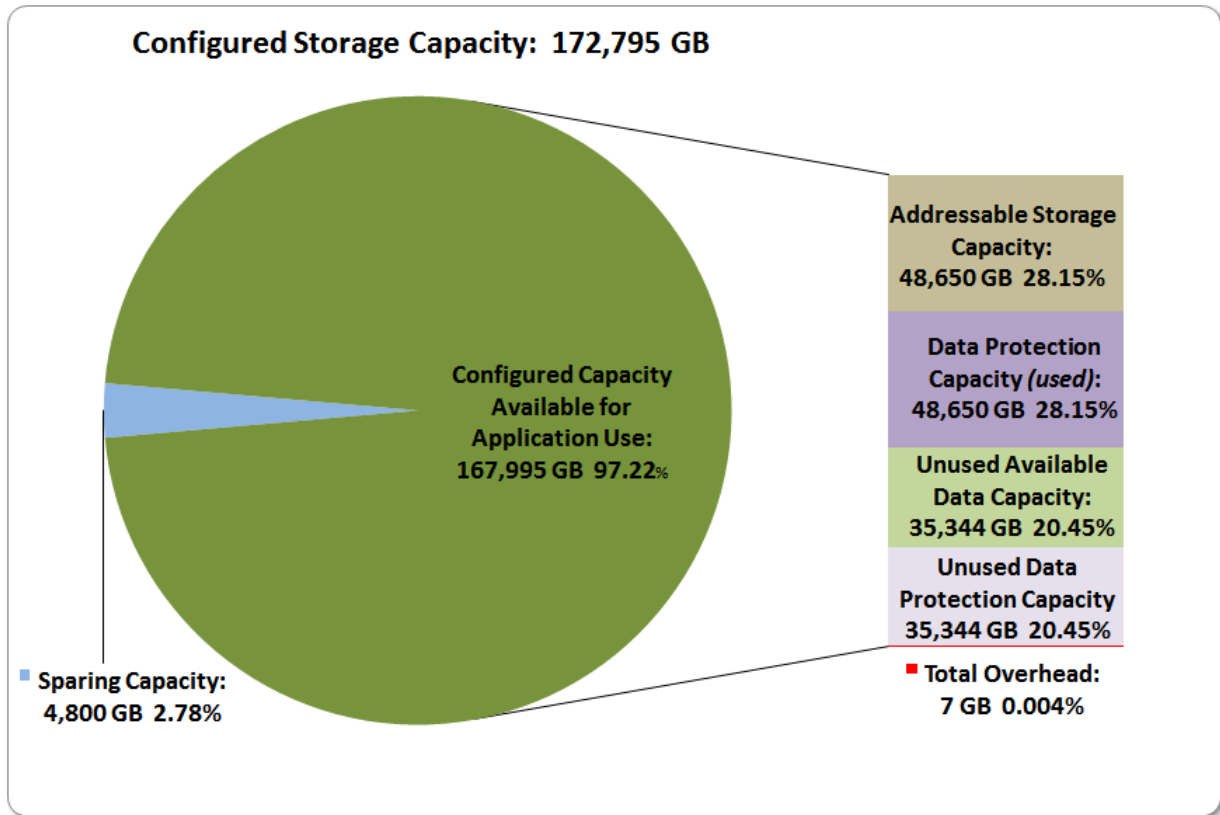
SPC-2 Reported Data				
Oracle ZFS Storage ZS4-4 Appliance				
SPC-2 MBPS™	SPC-2 Price-Performance	ASU Capacity (GB)	Total Price	Data Protection Level
31,486.23	\$17.09	48,649.759	\$538,049.73	Protected 2 (Mirroring)
The above SPC-2 MBPS™ value represents the aggregate data rate of all three SPC-2 workloads: Large File Processing (LFP), Large Database Query (LDQ), and Video On Demand (VOD)				
SPC-2 Large File Processing (LFP) Reported Data				
	Data Rate (MB/second)	Number of Streams	Data Rate per Stream	Price-Performance
LFP Composite	21,180.92			\$25.40
Write Only:				
1024 KiB Transfer	15,845.30	512	30.95	
256 KiB Transfer	4,096.04	1,024	4.00	
Read-Write:				
1024 KiB Transfer	23,034.46	2,048	11.25	
256 KiB Transfer	6,569.90	1,024	6.42	
Read Only:				
1024 KiB Transfer	38,820.79	256	151.64	
256 KiB Transfer	38,719.00	1,024	37.81	
The above SPC-2 Data Rate value for LFP Composite represents the aggregate performance of all three LFP Test Phases: (Write Only, Read-Write, and Read Only).				
SPC-2 Large Database Query (LDQ) Reported Data				
	Data Rate (MB/second)	Number of Streams	Data Rate per Stream	Price-Performance
LDQ Composite	37,101.85			\$14.50
1024 KiB Transfer Size				
4 I/Os Outstanding	39,110.30	256	152.77	
1 I/O Outstanding	39,007.21	256	152.37	
64 KiB Transfer Size				
4 I/Os Outstanding	35,376.78	512	69.10	
1 I/O Outstanding	34,913.09	1,024	34.09	
The above SPC-2 Data Rate value for LDQ Composite represents the aggregate performance of the two LDQ Test Phases: (1024 KiB and 64 KiB Transfer Sizes).				
SPC-2 Video On Demand (VOD) Reported Data				
	Data Rate (MB/second)	Number of Streams	Data Rate per Stream	Price-Performance
	36,175.91	46,000	0.79	\$14.87

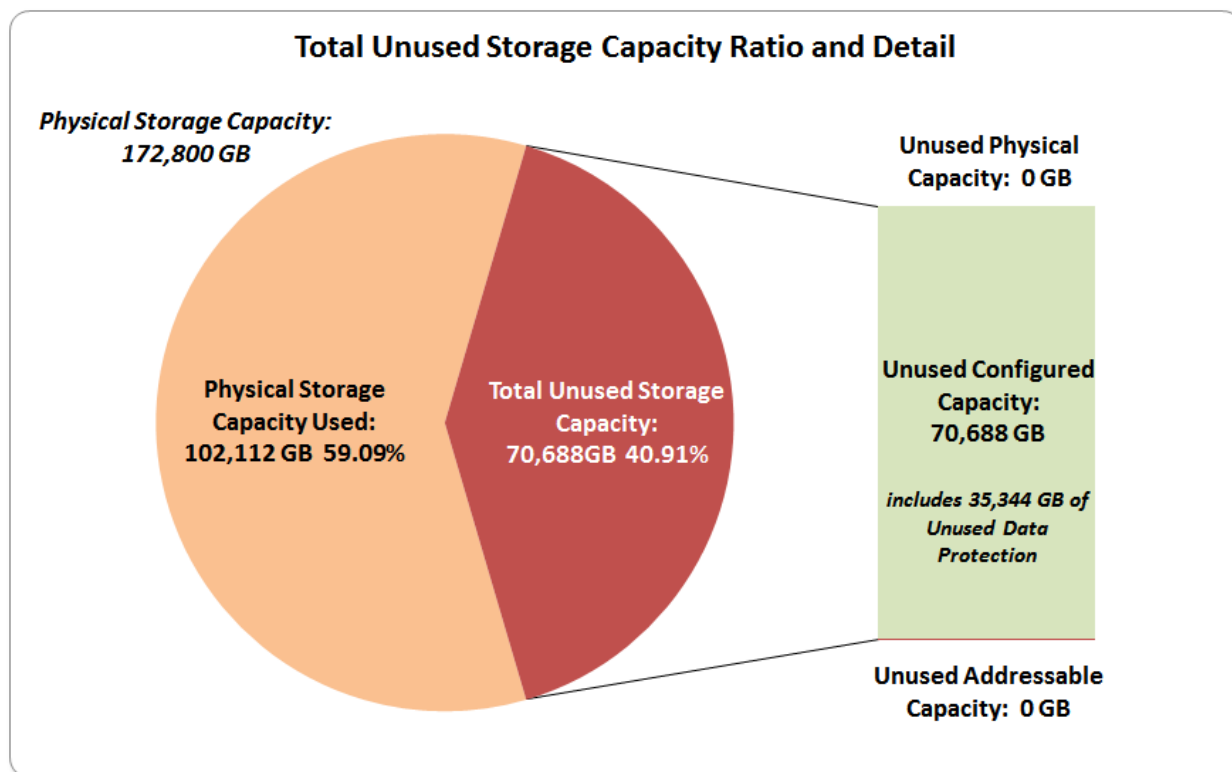
### Storage Capacities, Relationships and Utilization

The following four charts and table document the various storage capacities, used in this benchmark, and their relationships, as well as the storage utilization values required to be reported.

The capacity values in each of the following four charts are listed as integer values, for readability, rather than the decimal values listed elsewhere in this document.







SPC-2 Storage Capacity Utilization	
Application Utilization	28.15%
Protected Application Utilization	56.31%
Unused Storage Ratio	40.91%

**Application Utilization:** Total ASU Capacity (48,649.759 GB) divided by Physical Storage Capacity (172,800.000 GB).

**Protected Application Utilization:** Total ASU Capacity (48,649.759 GB) plus total Data Protection Capacity (83,997.610 GB) minus unused Data Protection Capacity (35,344.220 GB) divided by Physical Storage Capacity (172,800.000 GB).

**Unused Storage Ratio:** Total Unused Capacity (70,688.440 GB) divided by Physical Storage Capacity (172,800.000 GB) and may not exceed 45%.

Detailed information for the various storage capacities and utilizations is available on pages 26-27 in the Full Disclosure Report.



## Priced Storage Configuration Pricing

Part Number	Description	Quantity	US List	Total List	Discount	Net Price
7110766	Oracle ZFS Storage ZS4-4: controller (for factory installation)	2	81,826.00	163,652.00	40.00%	98,191.20
7106824	One 16GB DDR3-1600 DIMM (for factory installation)	192	286.00	54,912.00	20.00%	43,929.60
7103790	SAS PCIE 6Gbs 16 port (for factory installation)	4	1,167.00	4,668.00	40.00%	2,800.80
7104728	Cable: 3 meters, mini SAS to mini SAS HD (for factory installation)	16	186.00	2,976.00	40.00%	1,785.60
7104073	Oracle Dual Port QDR InfiniBand Adapter M3 (for factory installation)	8	2,740.00	21,920.00	40.00%	13,152.00
SR-JUMP-1MC13	Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)	4	29.00	116.00	40.00%	69.60
7103910	Oracle Storage Drive Enclosure DE2-24P: base chassis (for factory installation)	24	4,071.00	97,704.00	40.00%	58,622.40
7103911	One 300 GB 10000 rpm 2.5 inch SAS-2 HDD with evo bracket (for factory installation)	576	345.00	198,720.00	40.00%	119,232.00
SR-JUMP-1MC13	Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)	48	29.00	1,392.00	40.00%	835.20
X2821A-Z-N	Sun Datacenter Switch IB-36 is a 1RU 36 port managed QDR InfiniBand Switch. The switch utilizes standard QSFP connectors. Comes with redundant power supplies.	2	14,980.00	29,960.00	40.00%	17,976.00
7107048	Rack Rail Kit	2	1,066.00	2,132.00	40.00%	1,279.20
X2121A-1M-N	QSFP to QSFP passive copper cable: 1 meter	16	140.00	2,240.00	40.00%	1,344.00
XSR-JUMP-1MC13-N	Jumper Cable Kit: 1 x 1m C13.	4	29.00	116.00	40.00%	69.60
SR-1242-N	Sun Rack II, 42U, 1200mm depth, 600mm width, empty shipping only (do not install product inside the rack while it is on this pallet)	2	2,149.00	4,298.00	20.00%	3,438.40
SR-10K-L630-N	Sun Rack II 10kVA PDU, Single Phase, 48 Supplied Amps Max, NEMA L6-30P on 4m captive cords, Data Center Two 30A NEMA L6-30R (30A breakers), 42 C13 and 6 C19 Outlets in 6 Groups, Current Metering.	2	900.00	1,800.00	20.00%	1,440.00
SR-JUMPKIT-N	Jumper Cable Start Up Kit: qty 10 of 1 meter C13 plugs + qty 10 of 2 meter C13 plugs + qty 2 1 meter C19 plugs + Qty 2 2meter C19 plugs	2	198.00	396.00	20.00%	316.80
7104074	Oracle Dual Port QDR InfiniBand Adapter M3	16	2,740.00	43,840.00	40.00%	26,304.00
X2121A-5M-N	QSFP to QSFP passive copper cable: 5 meters	32	252.00	8,064.00	40.00%	4,838.40
	Oracle Premium Support for Systems: 1-Year 7/24, 2 hour response time.	3		230,006.16		142,424.93
<b>TOTALS</b>				<b>868,912.16</b>		<b>538,049.73</b>

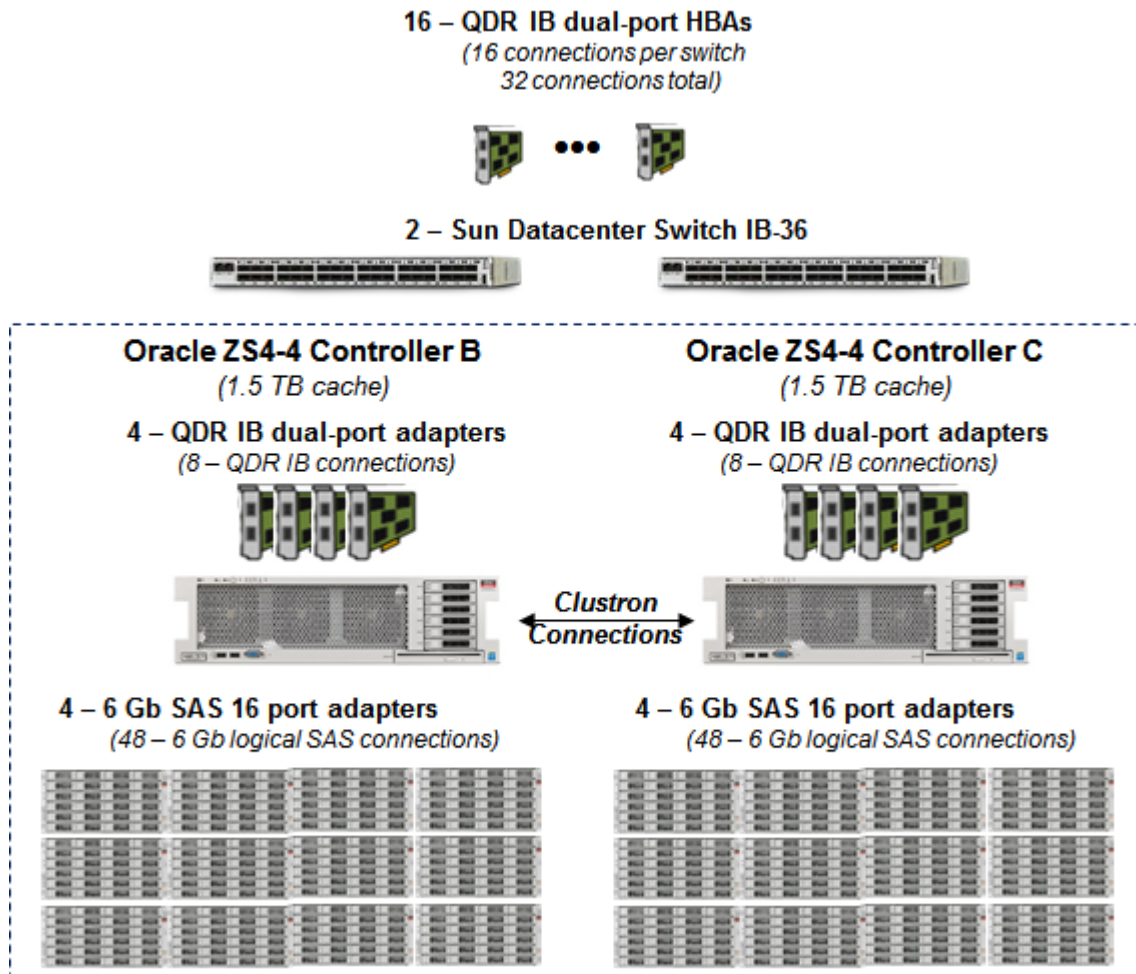
The above pricing includes the following:

- Acknowledgement of new and existing hardware and/or software problems within four hours.
- Onsite presence of a qualified maintenance engineer or provision of a customer replaceable part within four hours of the above acknowledgement for any hardware failure that results in an inoperative Priced Storage Configuration component.

## Differences between the Tested Storage Configuration (TSC) and Priced Storage Configuration

There were no differences between the TSC and Priced Storage Configuration.

## Priced Storage Configuration Diagram



### Oracle ZFS Storage ZS4-4 Appliance

- 2 – Oracle ZFS ZS4-4 controllers** (cluster configuration)  
(1.5 TB cache per controller, 3 TB total)
- 8 – QDR IB dual-port HBAs** (4 HBAs per controller)  
(8 – QDR connections per controller, 16 total, 16 used)
- 8 – SAS PCIe 6 Gb 16 port adapters** (4 adapters per controller)  
(64 – 6 Gb logical SAS connections per controller, 128 total, 96 used)
- 24 – Sun disk shelf base** (2 SAS I/O modules per base)
- 576 – 300 GB 10K RPM 2.5” SAS-2 Disk Drives**
- 2 – Sun Rack II 42U**
- 2 – Sun Rack II 10kVA PDUs**

## Priced Storage Configuration Components

Priced Storage Configuration
16 – Oracle Dual Port QDR InfiniBand Adapters M3
2 – Sun Datacenter 36-port QDR InfiniBand Switches (IB-36)
<b>Oracle ZFS Storage ZS4-4 Appliance</b>
2 – Oracle ZFS ZS4-4 controllers ( <i>cluster configuration</i> ) 1.5 GiB cache/memory per controller ( <i>3 GiB total</i> )
8 – Oracle Dual Port QDR InfiniBand Adapters M3 ( <i>4 adapters per controller</i> )
8 – QDR InfiniBand front-end connections per controller ( <i>16 – QDR InfiniBand front-end connections total, 16 used</i> )
8 – SAS PCIe 6 Gb 16 port adapters ( <i>4 adapters per controller</i> ) ( <i>2 adapters per controller included with base unit</i> ) 4 physical SAS ports per adapter 4 logical SAS connections per physical port 16 logical SAS connections per adapter 16 physical SAS ports per controller 64 logical SAS connections per controller ( <i>128 logical connections total, 96 used</i> )
24 – Oracle Storage Drive Enclosures each with 2 SAS I/O modules, 2 AC PSUs and 2 cooling fans
576 – 300 GB 10K RPM 2.5" SAS-2 disk drives ( <i>24 disk drives per enclosure</i> )
2 – Sun Rack II, 42U
2 – Sun Rack II 10kVA PDU, single phase, 48 supported amps max

## **CONFIGURATION INFORMATION**

This portion of the Full Disclosure Report documents and illustrates the detailed information necessary to recreate the Benchmark Configuration (BC), including the Tested Storage Configuration (TSC), so that the SPC-2 benchmark result produced by the BC may be independently reproduced.

In each of the following sections of this document, the appropriate Full Disclosure Report requirement, from the SPC-2 benchmark specification, is stated in italics followed by the information to fulfill the stated requirement.

### **Benchmark Configuration (BC)/Tested Storage Configuration (TSC) Diagram**

#### *Clause 10.6.6*

*The FDR will contain a one page BC/TSC diagram that illustrates all major components of the BC/TSC.*

The Benchmark Configuration (BC)/Tested Storage Configuration (TSC) is illustrated on page [22 \(Benchmark Configuration \(BC\)/Tested Storage Configuration \(TSC\) Diagram\)](#).

### **Storage Network Configuration**

#### *Clause 10.6.6.1*

*If a storage network was configured as a part of the Tested Storage Configuration and the Benchmark Configuration described in Clause 10.6.6 contains a high-level illustration of the network configuration, the Executive Summary will contain a one page topology diagram of the storage network as illustrated in Figure 10.11.*

The Storage Network Configuration is illustrated on page [21 \(Storage Network Configuration Diagram\)](#).

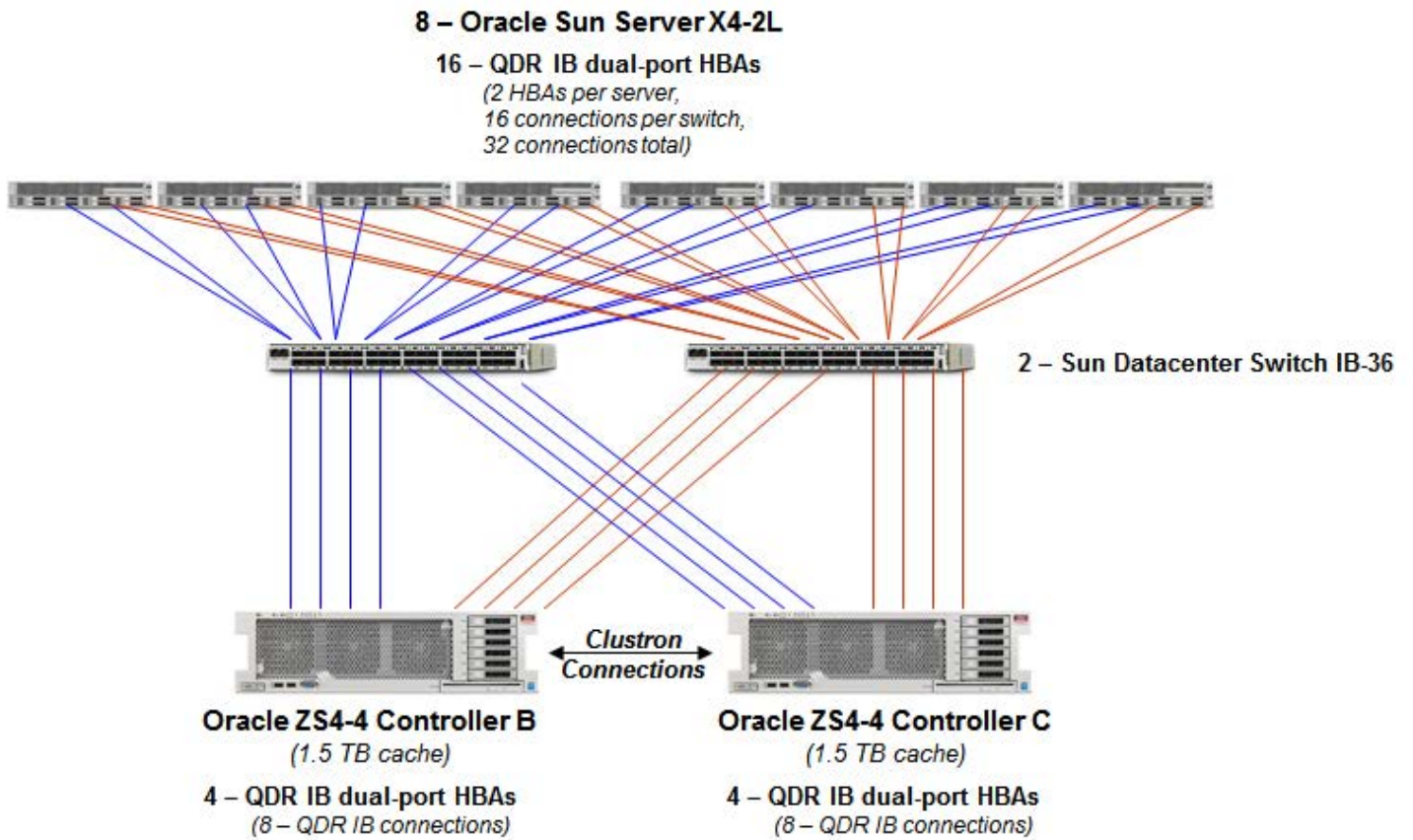
### **Host System and Tested Storage Configuration Table**

#### *Clause 10.6.6.2*

*The FDR will contain a table that lists the major components of each Host System and the Tested Storage Configuration.*

The components that comprise each Host System and the Tested Storage Configuration are listed in the table that appears on page [23 \(Host System and Tested Storage Configuration Components\)](#).

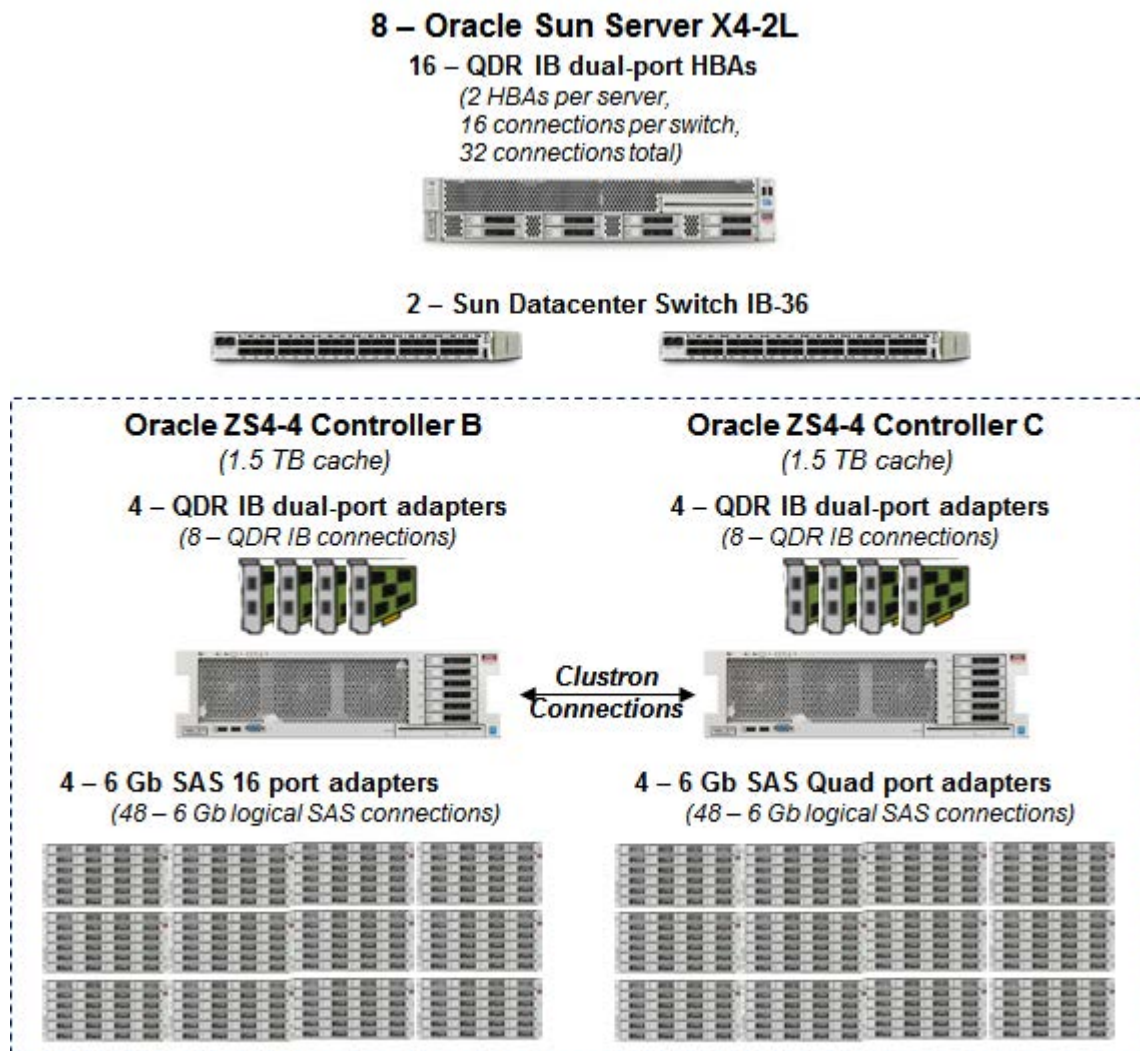
### Storage Network Configuration Diagram



Details of the storage network configuration are presented in [Appendix C](#).



## Benchmark Configuration/Tested Storage Configuration Diagram



## Oracle ZFS Storage ZS4-4 Appliance

- 2 – Oracle ZFS ZS4-4 controllers** (cluster configuration)  
 (1.5 TB cache per controller, 3 TB total)
- 8 – QDR IB dual-port HBAs** (4 HBAs per controller)  
 (8 – QDR connections per controller, 16 total, 16 used)
- 8 – SAS PCIe 6 Gb 16 port adapters** (4 adapters per controller)  
 (64 – 6 Gb logical SAS connections per controller, 128 total, 96 used)
- 24 – Sun disk shelf base** (2 SAS I/O modules per base)
- 576 – 300 GB 10K RPM 2.5” SAS-2 Disk Drives**
- 2 – Sun Rack II 42U**
- 2 – Sun Rack II 10kVA PDUs**

## Host System and Tested Storage Configuration Components

Host Systems
<p><b>8 – Oracle Sun Server X4-2L</b>, each with:</p> <ul style="list-style-type: none"> <li>2 – Intel® Xeon® E5-2690 V2 2.99 Ghz processors, 10 Cores, 25 MB Intel® Smart Cache</li> <li>128 GB main memory</li> <li>Oracle Solaris 11.2 x86 64-bit</li> <li>PCIe Gen3</li> </ul>
Tested Storage Configuration
16 – Oracle Dual Port QDR InfiniBand Adapters M3
2 – Sun Datacenter 36-port QDR InfiniBand Switches (IB-36)
<p><b>Oracle ZFS Storage ZS4-4 Appliance</b></p> <ul style="list-style-type: none"> <li>2 – Oracle ZFS ZS4-4 controllers (<i>cluster configuration</i>) 1.5 GiB cache/memory per controller (<i>3 GiB total</i>)</li> </ul>
<ul style="list-style-type: none"> <li>8 – Oracle Dual Port QDR InfiniBand Adapters M3 (<i>4 adapters per controller</i>)</li> <li>8 – QDR InfiniBand front-end connections per controller (<i>16 – QDR InfiniBand front-end connections total, 16 used</i>)</li> </ul>
<ul style="list-style-type: none"> <li>8 – SAS PCIe 6 Gb 16 port adapters (<i>4 adapters per controller</i>) (<i>2 adapters per controller included with base unit</i>)</li> <li>4 physical SAS ports per adapter</li> <li>4 logical SAS connections per physical port</li> <li>16 logical SAS connections per adapter</li> <li>16 physical SAS ports per controller</li> <li>64 logical SAS connections per controller (<i>128 logical connections total, 96 used</i>)</li> </ul>
24 – Oracle Storage Drive Enclosures each with 2 SAS I/O modules, 2 AC PSUs and 2 cooling fans
576 – 300 GB 10K RPM 2.5” SAS-2 disk drives ( <i>24 disk drives per enclosure</i> )
2 – Sun Rack II, 42U
2 – Sun Rack II 10kVA PDU, single phase, 48 supported amps max

## Customer Tunable Parameters and Options

### Clause 10.6.7.1

All Benchmark Configuration (BC) components with customer tunable parameter and options that have been altered from their default values must be listed in the FDR. The FDR entry for each of those components must include both the name of the component and the altered value of the parameter or option. If the parameter name is not self-explanatory to a knowledgeable practitioner, a brief description of the parameter's use must also be included in the FDR entry.

[Appendix B: Customer Tunable Parameters and Options](#) on page 67 contains the customer tunable parameters and options that have been altered from their default values for this benchmark.

## Tested Storage Configuration (TSC) Creation and Configuration

### Clause 10.6.7.2

The Full Disclosure Report must include sufficient information to recreate the logical representation of the Tested Storage Configuration (TSC). In addition to customer tunable parameters and options (Clause 10.6.6.1), that information must include, at a minimum:

- A diagram and/or description of the following:
  - All physical components that comprise the TSC. Those components are also illustrated in the BC Configuration Diagram in Clause 10.6.5.7 and the Storage Network Configuration Diagram in Clause 10.6.5.8.
  - The logical representation of the TSC, configured from the above components that will be presented to the SPC-2 Workload Generator.
- Listings of scripts used to create the logical representation of the TSC.
- If scripts were not used, a description of the process used with sufficient detail to recreate the logical representation of the TSC.

[Appendix C: Tested Storage Configuration \(TSC\) Creation](#) on page 68 contains the detailed information that describes how to create and configure the logical TSC.

## SPC-2 Workload Generator Storage Configuration

### Clause 10.6.7.3

The Full Disclosure Report will include all SPC-2 Workload Generator storage configuration commands and parameters used in the SPC-2 benchmark measurement.

The SPC-2 Workload Generator storage configuration commands and parameters for this measurement appear in [Appendix D: SPC-2 Workload Generator Storage Commands and Parameter Files](#) on page 92.



## ASU Pre-Fill

### Clause 6.3.3

*The SPC-2 ASU is required to be completely filled with specified content prior to the execution of audited SPC-2 Tests. The content is required to consist of random data pattern such as that produced by an SPC recommended tool.*

...

### Clause 6.3.3.3

*The required ASU pre-fill must be executed as the first step in the uninterrupted benchmark execution sequence described in Clause 6.4.2. That uninterrupted sequence will consist of: ASU Pre-Fill, Large File Processing, Large Database Query, Video on Demand Delivery and Persistence Test Run 1. The only exception to this requirement is described in Clause 6.3.3.4.*

### Clause 6.3.3.4

*If approved by the Auditor, the Test Sponsor may complete the required ASU pre-fill prior to the execution of the audited SPC-2 Tests and not as part of the SPC-2 Test execution sequence.*

*The Auditor will verify the required random data pattern content in the ASU prior to the execution of the audited SPC-2 Tests. If that verification fails, the Test Sponsor is required to reload the specified content to the ASU.*

The configuration file used to complete the required ASU pre-fill appears in [Appendix D: SPC-2 Workload Generator Storage Commands and Parameter Files](#) on page [92](#).

## SPC-2 DATA REPOSITORY

This portion of the Full Disclosure Report presents the detailed information that fully documents the various SPC-2 storage capacities and mappings used in the Tested Storage Configuration. [SPC-2 Data Repository Definitions](#) on page [62](#) contains definitions of terms specific to the SPC-2 Data Repository.

In each of the following sections of this document, the appropriate Full Disclosure Report requirement, from the SPC-2 benchmark specification, is stated in italics followed by the information to fulfill the stated requirement.

### SPC-2 Storage Capacities and Relationships

#### *Clause 10.6.8.1*

*Two tables and four charts documenting the storage capacities and relationships of the SPC-2 Storage Hierarchy (Clause 2.1) shall be included in the FDR. ... The capacity value in each chart may be listed as an integer value, for readability, rather than the decimal value listed in the table below.*

#### SPC-2 Storage Capacities

The Physical Storage Capacity consisted of 172,800.000 GB distributed over 576 disk drives each with a formatted capacity of 300.000 GB. There was 0.000 GB (0.00%) of Unused Storage within the Physical Storage Capacity. Global Storage Overhead consisted of 4.917 GB (0.003%) of the Physical Storage Capacity. There was 70,688.440 GB (40.91%) of Unused Storage within the Configured Storage Capacity. The Total ASU Capacity utilized 100.00% of the Addressable Storage Capacity resulting in 0.000 GB (0.00%) of Unused Storage within the Addressable Storage Capacity. The Data Protection (*Mirroring*) capacity was 83,997.610 GB of which 48,653.390 GB was utilized. The total Unused Storage was 70,688.440 GB.

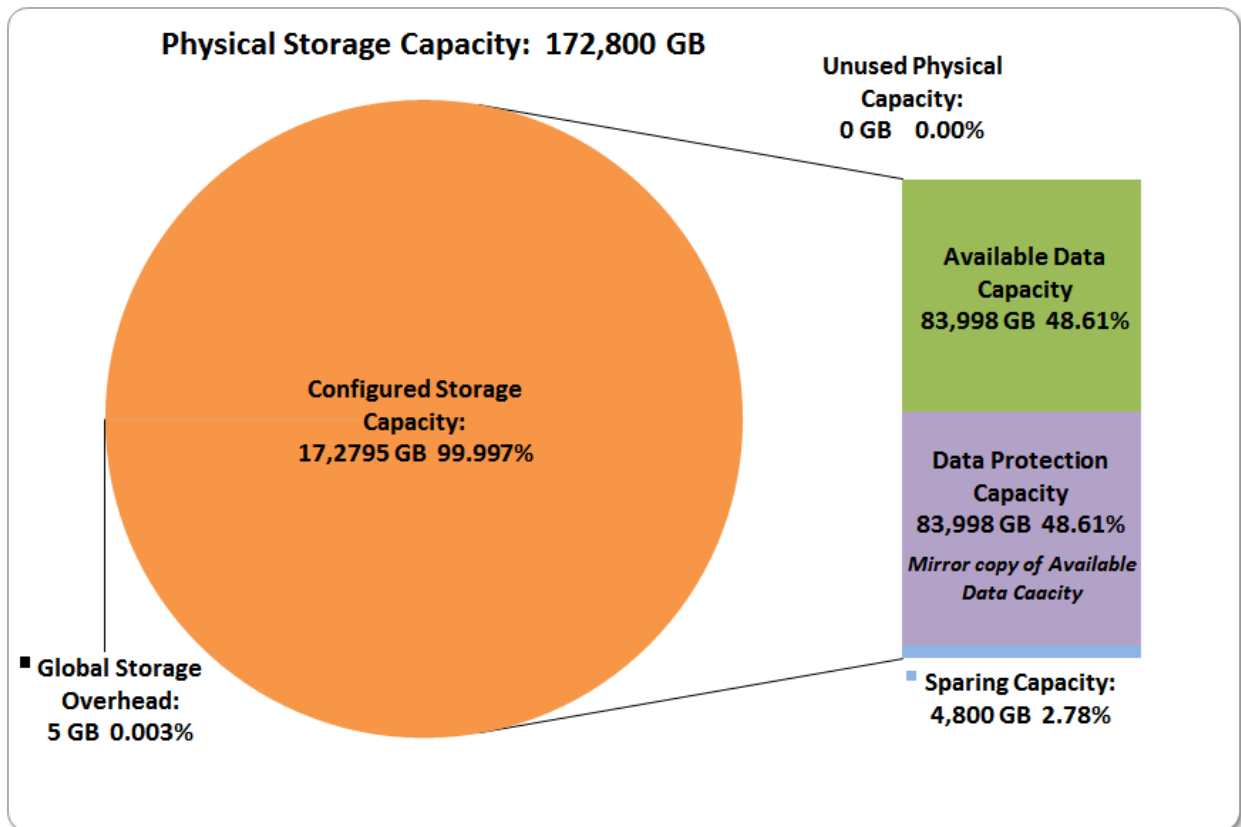
*Note: The configured Storage Devices may include additional storage capacity reserved for system overhead, which is not accessible for application use. That storage capacity may not be included in the value presented for Physical Storage Capacity.*

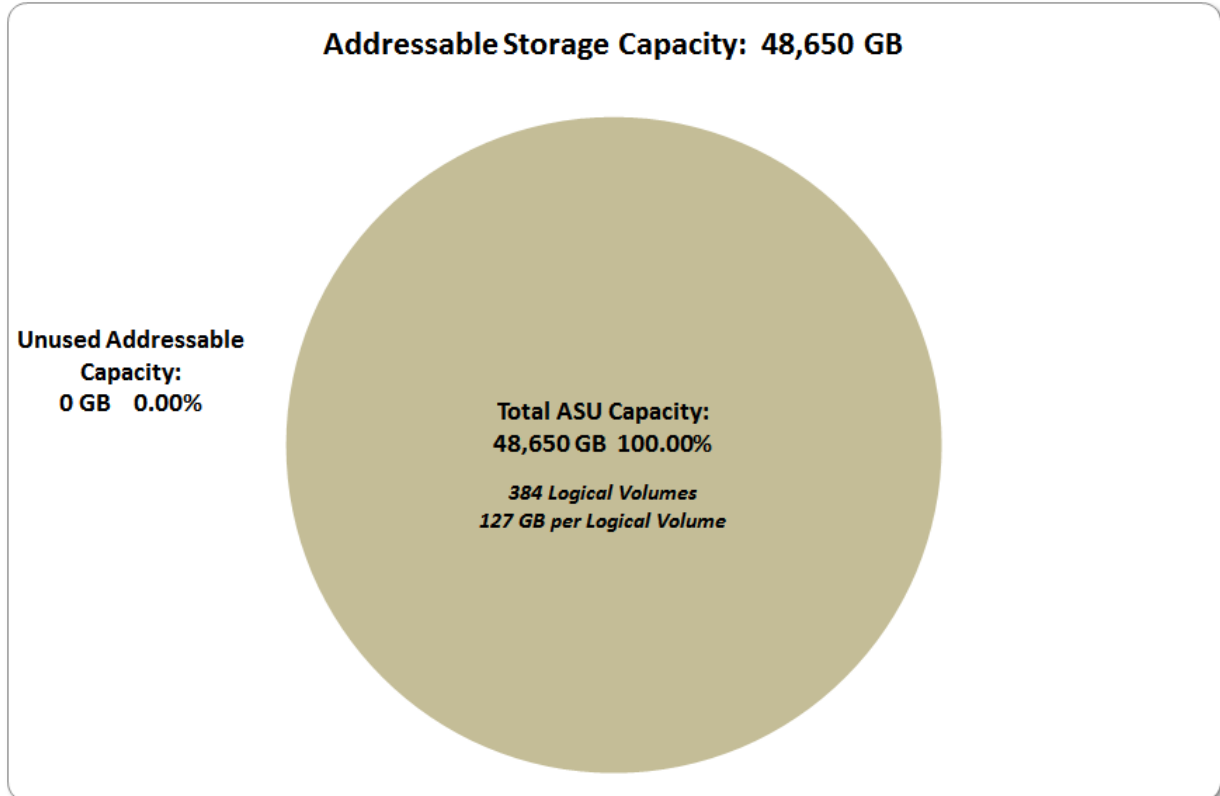
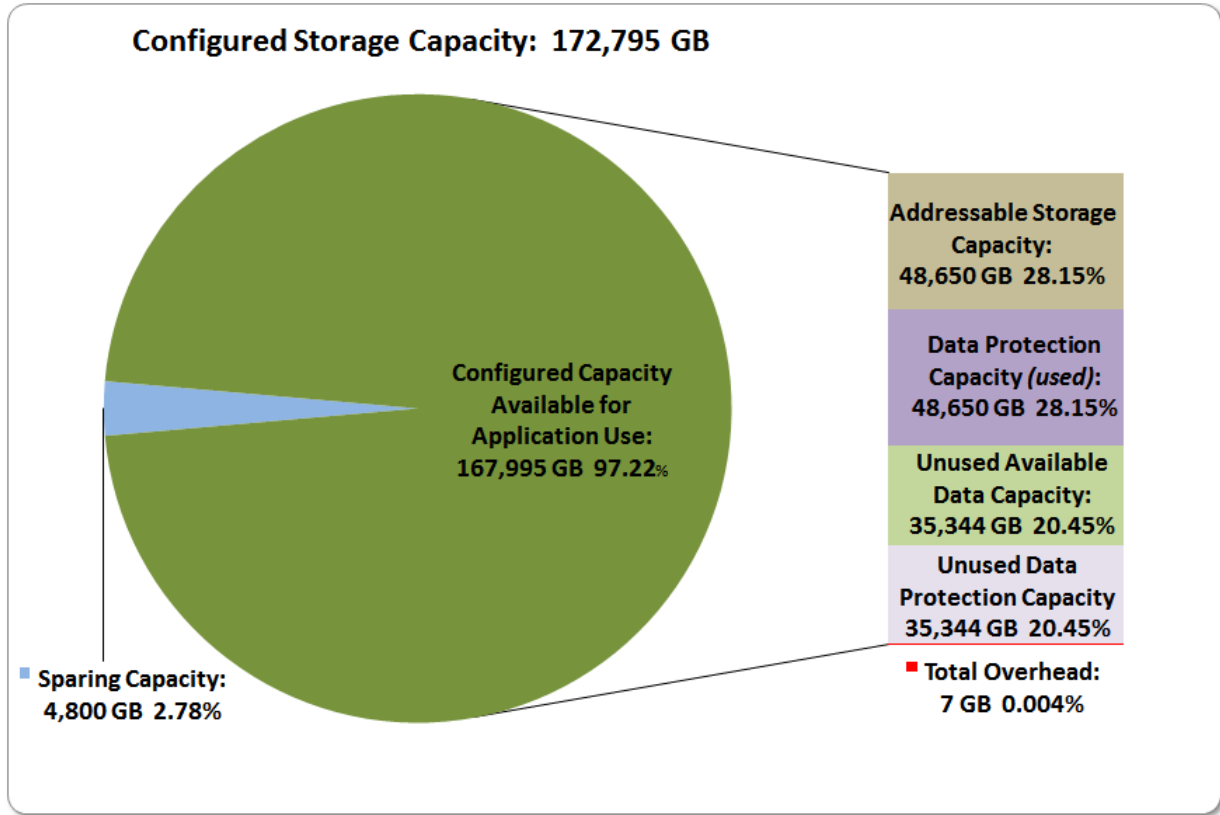
SPC-2 Storage Capacities		
Storage Hierarchy Component	Units	Capacity
Total ASU Capacity	Gigabytes (GB)	48,649.759
Addressable Storage Capacity	Gigabytes (GB)	48,649.759
Configured Storage Capacity	Gigabytes (GB)	172,795.083
Physical Storage Capacity	Gigabytes (GB)	172,800.000
Data Protection ( <i>Mirroring</i> )	Gigabytes (GB)	83,997.610
Required Storage ( <i>overhead/sparing</i> )	Gigabytes (GB)	4,807,124
Global Storage Overhead	Gigabytes (GB)	4.917
Total Unused Storage	Gigabytes (GB)	70,688,440

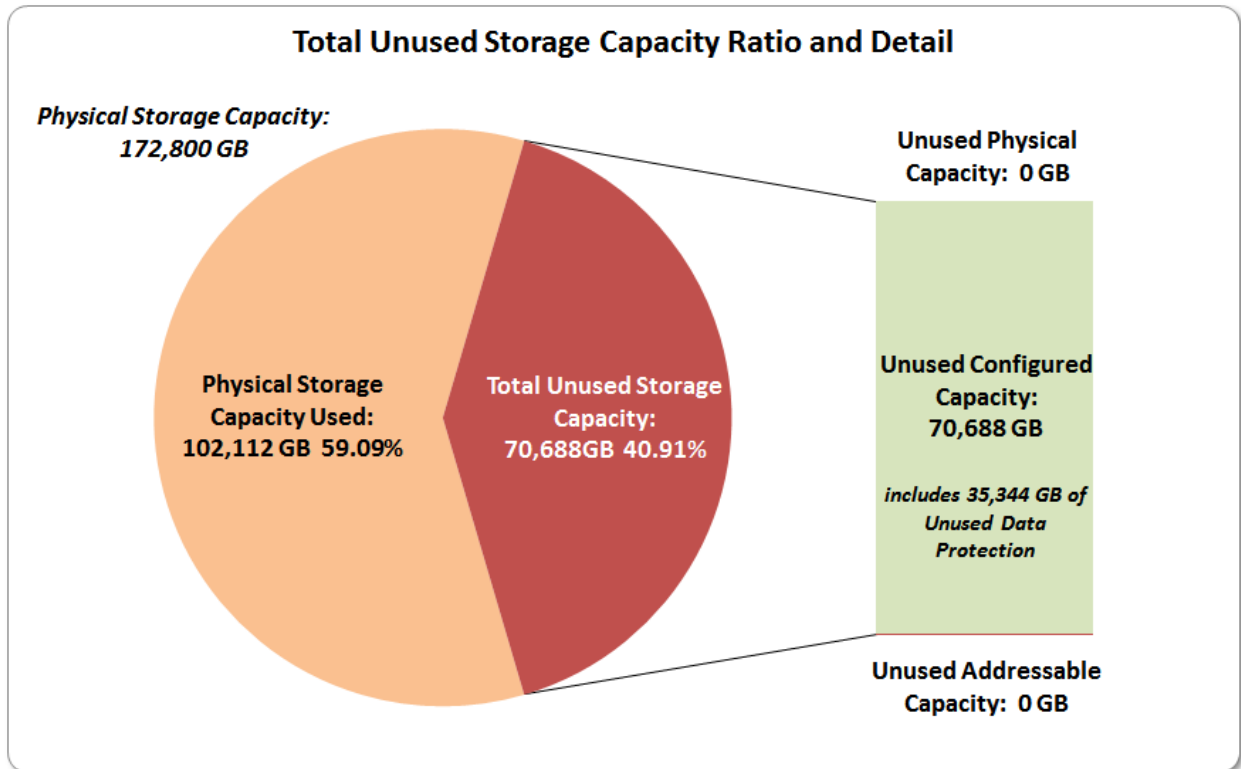
**SPC-2 Storage Hierarchy Ratios**

	Addressable Storage Capacity	Configured Storage Capacity	Physical Storage Capacity
<b>Total ASU Capacity</b>	100.00%	28.15%	28.15%
<b>Data Protection (<i>mirroring</i>)</b>		46.61%	46.61%
<b>Addressable Storage Capacity</b>		28.15%	28.15%
<b>Required Storage</b>		2.78%	2.78%
<b>Configured Storage Capacity</b>			100.00%
<b>Global Storage Overhead</b>			0.003%
<b>Unused Storage:</b>			
<b>Addressable</b>	0.00%		
<b>Configured</b>		40.91%	
<b>Physical</b>			0.00%

**SPC-1 Storage Capacity Charts**







## Storage Capacity Utilization

### Clause 10.6.8.2

The FDR will include a table illustrating the storage capacity utilization values defined for Application Utilization (Clause 2.8.1), Protected Application Utilization (Clause 2.8.2), and Unused Storage Ratio (Clause 2.8.3).

### Clause 2.8.1

**Application Utilization** is defined as Total ASU Capacity divided by Physical Storage Capacity.

### Clause 2.8.2

**Protected Application Utilization** is defined as (Total ASU Capacity plus total Data Protection Capacity minus unused Data Protection Capacity) divided by Physical Storage Capacity.

### Clause 2.8.3

**Unused Storage Ratio** is defined as Total Unused Capacity divided by Physical Storage Capacity and may not exceed 45%.

SPC-2 Storage Capacity Utilization	
Application Utilization	28.15%
Protected Application Utilization	56.31%
Unused Storage Ratio	40.91%

## Logical Volume Capacity and ASU Mapping

### Clause 10.6.8.3

A table illustrating the capacity of the Application Storage Unit (ASU) and the mapping of Logical Volumes to ASU will be provided in the FDR. Capacity must be stated in gigabytes (GB) as a value with a minimum of two digits to the right of the decimal point. Each Logical Volume will be sequenced in the table from top to bottom per its position in the contiguous address space of the ASU. Each Logical Volume entry will list its total capacity, the portion of that capacity used for the ASU, and any unused capacity.

<b>Logical Volume (LV) Capacity and Mapping</b>			
<b>ASU (48,649.759 GB)</b>			
	<b>Total Capacity (GB)</b>	<b>Capacity Used (GB)</b>	<b>Capacity Unused (GB)</b>
384 Logical Volumes	126.692 per LV	126.692 per LV	0,.000 per LV

See the Storage Definition (sd) entries in [Appendix D: SPC-2 Workload Generator Storage Commands and Parameter](#) Files on page [92](#) for more detailed configuration information.

## **SPC-2 BENCHMARK EXECUTION RESULTS**

This portion of the Full Disclosure Report documents the results of the various SPC-2 Tests, Test Phases, Test Run Sequences, and Test Runs. An [SPC-2 glossary](#) on page [62](#) contains definitions of terms specific to the SPC-2 Data Repository.

In each of the following sections of this document, the appropriate Full Disclosure Report requirement, from the SPC-2 benchmark specification, is stated in italics followed by the information to fulfill the stated requirement.

### **SPC-2 Tests, Test Phases, Test Run Sequences, and Test Runs**

The SPC-2 benchmark consists of the following Tests, Test Phases, Test Run Sequences, and Test Runs:

- **Data Persistence Test**
  - Data Persistence Test Run 1
  - Data Persistence Test Run 2
- **Large File Processing Test**
  - WRITE ONLY Test Phase
    - Test Run Sequence 1
      - ✓ Test Run 1 – 1024 KiB Transfer – maximum number of Streams
      - ✓ Test Run 2 – 1024 KiB Transfer – 50% of Test Run 1’s Streams value
      - ✓ Test Run 3 – 1024 KiB Transfer – 25% of Test Run 1’s Streams value
      - ✓ Test Run 4 – 1024 KiB Transfer – 12.5% of Test Run 1’s Streams value
      - ✓ Test Run 5 – 1024 KiB Transfer – single (1) Stream
    - Test Run Sequence 2
      - ✓ Test Run 6 – 256 KiB Transfer – maximum number of Streams
      - ✓ Test Run 7 – 256 KiB Transfer – 50% of Test Run 6’s Streams value
      - ✓ Test Run 8 – 256 KiB Transfer – 25% of Test Run 6’s Streams value
      - ✓ Test Run 9 – 256 KiB Transfer – 12.5% of Test Run 6’s Streams value
      - ✓ Test Run 10 – 256 KiB Transfer – single (1) Stream
  - READ-WRITE Test Phase
    - Test Run Sequence 3
      - ✓ Test Run 11 – 1024 KiB Transfer – maximum number of Streams
      - ✓ Test Run 12 – 1024 KiB Transfer – 50% of Test Run 11’s Streams value
      - ✓ Test Run 13 – 1024 KiB Transfer – 25% of Test Run 11’s Streams value
      - ✓ Test Run 14 – 1024 KiB Transfer – 12.5% of Test Run 11’s Streams value
      - ✓ Test Run 15 – 1024 KiB Transfer – single (1) Stream
    - Test Run Sequence 4
      - ✓ Test Run 16 – 256 KiB Transfer – maximum number of Streams
      - ✓ Test Run 17 – 256 KiB Transfer – 50% of Test Run 16’s Streams value
      - ✓ Test Run 18 – 256 KiB Transfer – 25% of Test Run 16’s Streams value
      - ✓ Test Run 19 – 256 KiB Transfer – 12.5% of Test Run 16’s Streams value
      - ✓ Test Run 20 – 256 KiB Transfer – single (1) Stream
  - READ ONLY Test Phase
    - Test Run Sequence 5
      - ✓ Test Run 21 – 1024 KiB Transfer – maximum number of Streams

- ✓ Test Run 22 – 1024 KiB Transfer – 50% of Test Run 21’s Streams value
- ✓ Test Run 23 – 1024 KiB Transfer – 25% of Test Run 21’s Streams value
- ✓ Test Run 24 – 1024 KiB Transfer – 12.5% of Test Run 21’s Streams value
- ✓ Test Run 25 – 1024 KiB Transfer – single (1) Stream
- Test Run Sequence 6
  - ✓ Test Run 26 – 256 KiB Transfer – maximum number of Streams
  - ✓ Test Run 27 – 256 KiB Transfer – 50% of Test Run 26’s Streams value
  - ✓ Test Run 28 – 256 KiB Transfer – 25% of Test Run 26’s Streams value
  - ✓ Test Run 29 – 256 KiB Transfer – 12.5% of Test Run 26’s Streams value
  - ✓ Test Run 30 – 256 KiB Transfer – single (1) Stream
- **Large Database Query Test**
  - 1024 KIB TRANSFER SIZE Test Phase
    - Test Run Sequence 1
      - ✓ Test Run 1 – 4 I/O Requests Outstanding – maximum number of Streams
      - ✓ Test Run 2 – 4 I/O Requests Outstanding – 50% of Test Run 1’s Streams value
      - ✓ Test Run 3 – 4 I/O Requests Outstanding – 25% of Test Run 1’s Streams value
      - ✓ Test Run 4 – 4 I/O Requests Outstanding – 12.5% of Test Run 1’s Streams value
      - ✓ Test Run 5 – 4 I/O Requests Outstanding – single (1) Stream
    - Test Run Sequence 2
      - ✓ Test Run 6 – 1 I/O Request Outstanding – maximum number of Streams
      - ✓ Test Run 7 – 1 I/O Request Outstanding – 50% of Test Run 6’s Streams value
      - ✓ Test Run 8 – 1 I/O Request Outstanding – 25% of Test Run 6’s Streams value
      - ✓ Test Run 9 – 1 I/O Request Outstanding – 12.5% of Test Run 6’s Streams value
      - ✓ Test Run 10 – 1 I/O Request Outstanding – single (1) Stream
  - 64 KIB TRANSFER SIZE Test Phase
    - Test Run Sequence 3
      - ✓ Test Run 11 – 4 I/O Requests Outstanding – maximum number of Streams
      - ✓ Test Run 12 – 4 I/O Requests Outstanding – 50% of Test Run 11’s Streams value
      - ✓ Test Run 13 – 4 I/O Requests Outstanding – 25% of Test Run 11’s Streams value
      - ✓ Test Run 14 – 4 I/O Requests Outstanding – 12.5% of Test Run 11’s Streams value
      - ✓ Test Run 15 – 4 I/O Requests Outstanding – single (1) Stream
    - Test Run Sequence 4
      - ✓ Test Run 16 – 1 I/O Request Outstanding – maximum number of Streams
      - ✓ Test Run 17 – 1 I/O Request Outstanding – 50% of Test Run 16’s Streams value
      - ✓ Test Run 18 – 1 I/O Request Outstanding – 25% of Test Run 16’s Streams value
      - ✓ Test Run 19 – 1 I/O Request Outstanding – 12.5% of Test Run 16’s Streams value
      - ✓ Test Run 20 – 1 I/O Request Outstanding – single (1) Stream
- **Video on Demand Delivery Test**
  - Video on Demand Delivery Test Run

Each Test is an atomic unit that must be executed from start to finish before any other Test, Test Phase, or Test Run may be executed. The Tests may be executed in any sequence.

The results from each Test, Test Phase, and Test Run are listed below along with a more detailed explanation of each component.



## Large File Processing Test

### Clause 6.4.3.1

*The Large File Processing Test consists of the I/O operations associated with the type of applications, in a wide range of fields, which require simple sequential processing of one or more large files. Specific examples of those types of applications include scientific computing and large-scale financial processing*

### Clause 6.4.3.2

*The Large File Processing Test has three Test Phases, which shall be executed in the following uninterrupted sequence:*

1. *WRITE ONLY*
2. *READ-WRITE*
3. *READ ONLY*

*The BC shall not be restarted or manually disturbed, altered, or adjusted during the execution of the Large File Processing Test. If power is lost to the BC during this Test all results shall be rendered invalid and the Test re-run in its entirety.*

### Clause 10.6.9.1

*The Full Disclosure Report will contain the following content for the Large File Processing Test:*

1. *A listing of the SPC-2 Workload Generator commands and parameters used to execute each of the Test Runs in the Large File Processing Test.*
2. *The human readable SPC-2 Test Results File for each of the Test Runs in the Large File Processing Test.*
3. *The following three tables:*
  - *Average Data Rate: The average Data Rate, in MB per second for the Measurement Interval of each Test Run in the Large File Processing Test.*
  - *Average Data Rate per Stream: The average Data Rate per Stream, in MB per second, for the Measurement Interval of each Test Run in the Large File Processing Test.*
  - *Average Response Time: The average response time, in milliseconds (ms), for the Measurement Interval of each Test Run in the Large File Processing Test.*
4. *Average Data Rate, Average Data Rate per Stream and Average Response Time graphs as defined in Clauses 10.1.1, 10.1.2 and 10.1.3.*

## SPC-2 Workload Generator Commands and Parameters

The SPC-2 Workload Generator commands and parameters for the Large File Processing Test Runs are documented in [Appendix E: SPC-2 Workload Generator Execution Commands and Parameters](#) on Page [152](#).

### SPC-2 Test Results File

A link to the SPC-2 Test Results file generated from the Large File Processing Test Runs is listed below.

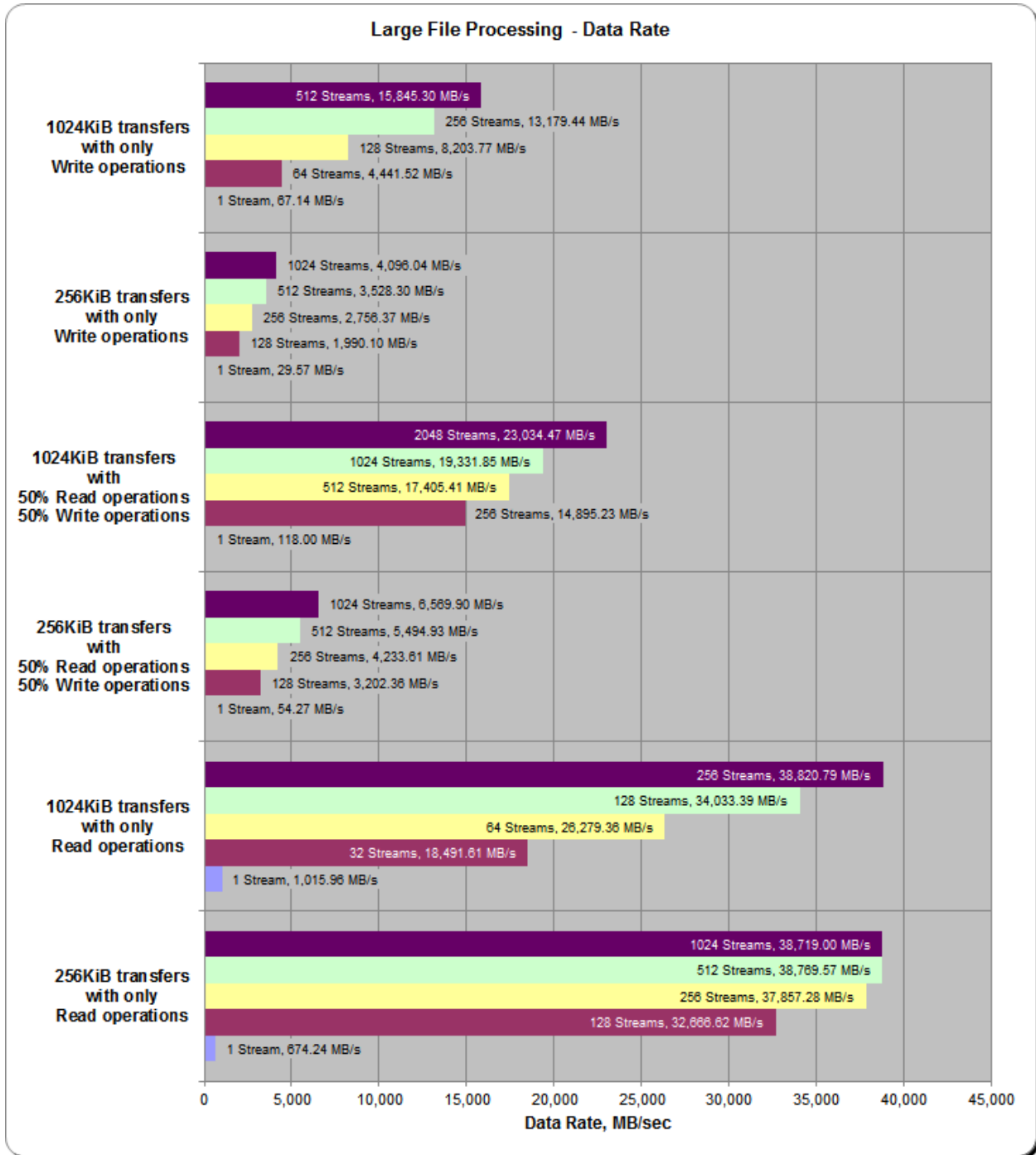
[SPC-2 Large File Processing Test Results File](#)

### SPC-2 Large File Processing Average Data Rates (MB/s)

The average Data Rate (MB/s) for each Test Run in the three Test Phases of the SPC-2 Large File Processing Test is listed in the table below as well as illustrated in the following graph.

<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>64 Streams</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>
Write 1024KiB	67.14	4,441.52	8,203.77	13,179.44	15,845.30
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Write 256KiB	29.57	1,990.10	2,756.37	3,528.30	4,096.04
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>	<b>2048 Streams</b>
Read/Write 1024KiB	118.00	14,895.23	17,405.41	19,331.85	23,034.47
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Read/Write 256KiB	54.27	3,202.36	4,233.61	5,494.93	6,569.90
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>32 Streams</b>	<b>64 Streams</b>	<b>128 Streams</b>	<b>256 Streams</b>
Read 1024KiB	1,015.96	18,491.61	26,279.36	34,033.39	38,820.79
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Read 256KiB	674.24	32,666.62	37,857.28	38,769.57	38,719.00

**SPC-2 Large File Processing Average Data Rates Graph**

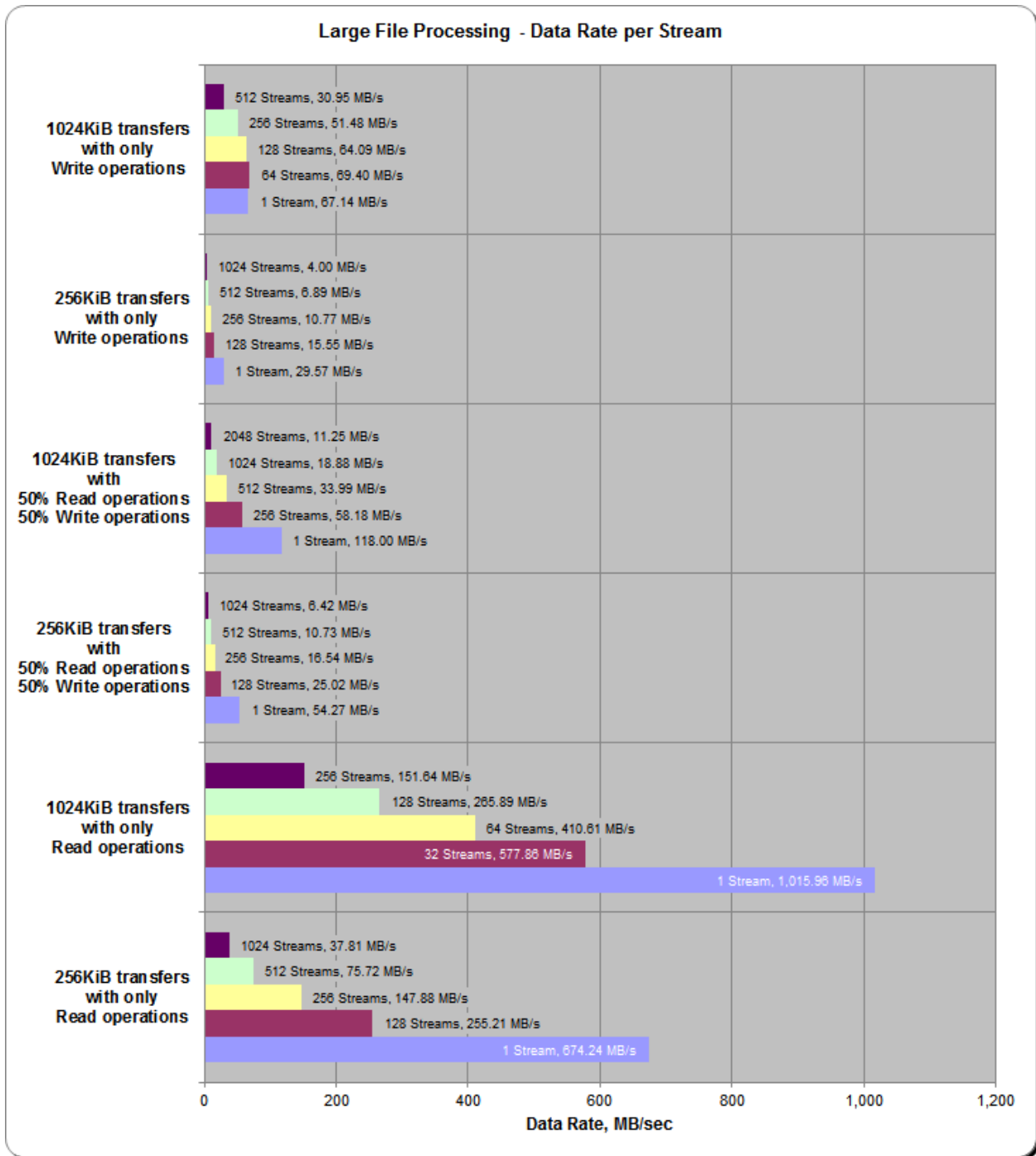


**SPC-2 Large File Processing Average Data Rate per Stream**

The average Data Rate per Stream for each Test Run in the three Test Phases of the SPC-2 Large File Processing Test is listed in the table below as well as illustrated in the following graph.

<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>64 Streams</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>
Write 1024KiB	67.14	69.40	64.09	51.48	30.95
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Write 256KiB	29.57	15.55	10.77	6.89	4.00
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>	<b>2048 Streams</b>
Read/Write 1024KiB	118.00	58.18	33.99	18.88	11.25
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Read/Write 256KiB	54.27	25.02	16.54	10.73	6.42
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>32 Streams</b>	<b>64 Streams</b>	<b>128 Streams</b>	<b>256 Streams</b>
Read 1024KiB	1,015.96	577.86	410.61	265.89	151.64
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Read 256KiB	674.24	255.21	147.88	75.72	37.81

**SPC-2 Large File Processing Average Data Rate per Stream Graph**

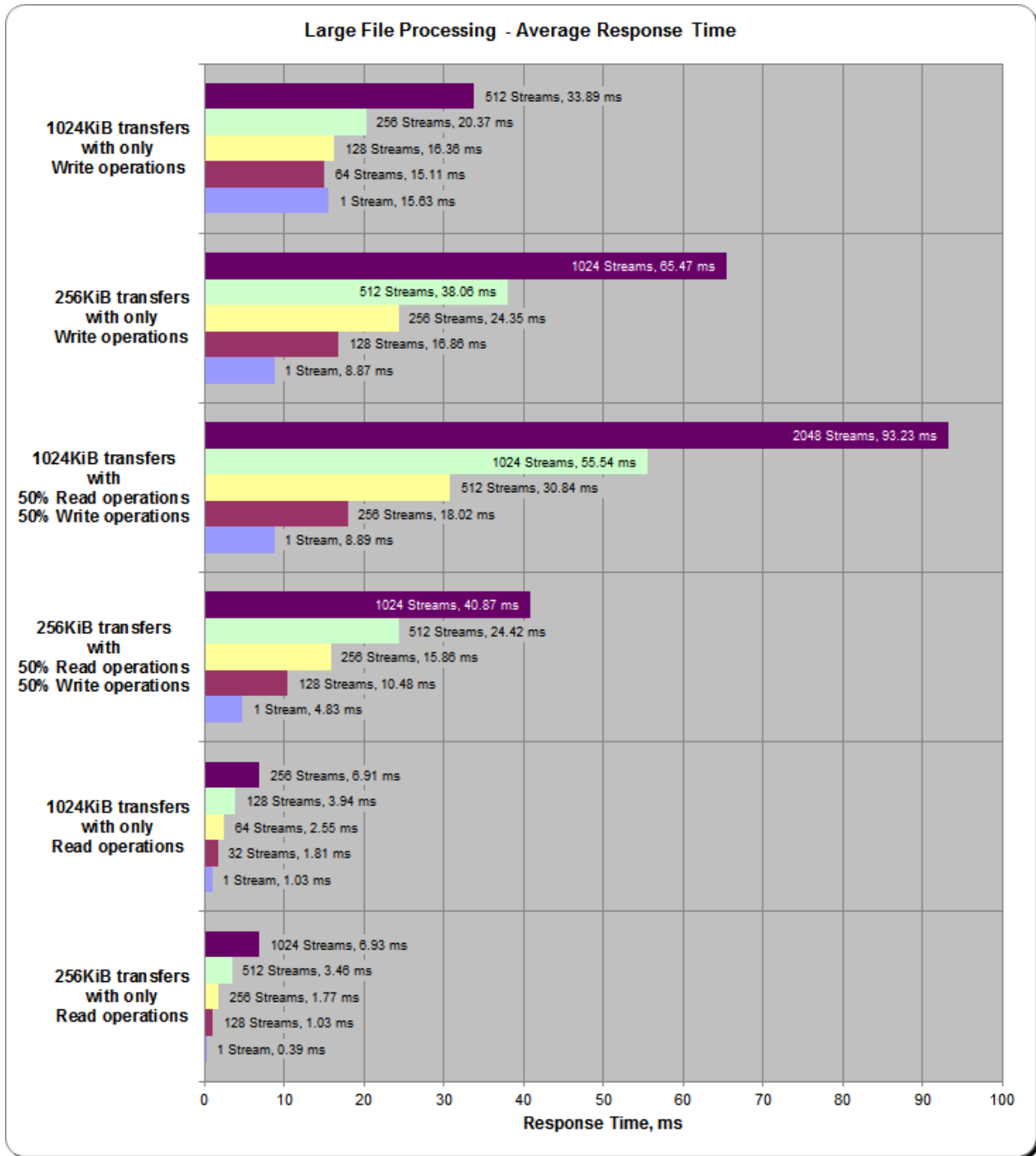


**SPC-2 Large File Processing Average Response Time**

The average Response Time, milliseconds (ms), for each Test Run in the three Test Phases of the SPC-2 Large File Processing Test is listed in the table below as well as illustrated in the following graph.

<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>64 Streams</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>
Write 1024KiB	15.63	15.11	16.36	20.37	33.89
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Write 256KiB	8.87	16.86	24.35	38.06	65.47
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>	<b>2048 Streams</b>
Read/Write 1024KiB	8.89	18.02	30.84	55.54	93.23
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Read/Write 256KiB	4.83	10.48	15.86	24.42	40.87
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>32 Streams</b>	<b>64 Streams</b>	<b>128 Streams</b>	<b>256 Streams</b>
Read 1024KiB	1.03	1.81	2.55	3.94	6.91
<b>Test Run Sequence</b>	<b>1 Stream</b>	<b>128 Streams</b>	<b>256 Streams</b>	<b>512 Streams</b>	<b>1024 Streams</b>
Read 256KiB	0.39	1.03	1.77	3.46	6.93

**SPC-2 Large File Processing Average Response Time Graph**



## Large File Processing Test – WRITE ONLY Test Phase

### Clause 10.6.9.1.1

1. *A table that will contain the following information for each "WRITE ONLY, 1024 KiB Transfer Size" Test Run:*
  - *The number of Streams specified.*
  - *The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.*
2. *Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "WRITE ONLY, 1024 KiB Transfer Size" Test Runs as specified in Clauses 10.1.4 – 10.1.6.*
3. *A table that will contain the following information for each "WRITE ONLY, 256 KiB Transfer Size" Test Run:*
  - *The number of Streams specified.*
  - *The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.*
4. *Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "WRITE ONLY, 256 KiB Transfer Size" Test Runs as specified in Clauses 10.1.4 – 10.1.6.*

*A hyperlink for each of the above tables and graphs may appear in the FDR to provide access to the table or graph.*

A hyperlink to a table with the SPC-2 "Large File Processing/WRITE ONLY/1024 KiB Transfer Size" Test Run data appears on the next page. That entry is followed by hyperlinks to graphs illustrating the average Data Rate, average Data Rate per Stream, and average Response Time produced by the same Test Runs. The table and graphs present the data at five-second intervals.

Immediately following the above SPC-2 "Large File Processing/WRITE ONLY/1024 KiB Transfer Size" entries will be hyperlinks for SPC-2 "Large File Processing/WRITE ONLY/256 KiB Transfer Size" table and graphs. The table contains the Test Run data and the graphs illustrate the average Data Rate, average Data Rate per Stream, and average Response Time produced by the Test Runs.



**SPC-2 “Large File Processing/WRITE ONLY/1024 KiB Transfer Size” Test Run Data**

[SPC-2 “Large File Processing/WRITE ONLY/1024 KiB Transfer Size” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)  
(3 pages)

**SPC-2 “Large File Processing/WRITE ONLY/1024 KiB Transfer Size” Graphs**

**Average Data Rate – Complete Test Run**

**Average Data Rate – Measurement Interval (MI) Only**

**Average Data Rate per Stream**

**Average Response Time**

[SPC-2 “Large File Processing/WRITE ONLY/1024 KiB Transfer Size” graphs](#)  
(four pages, 1 graph per page)

**SPC-2 “Large File Processing/WRITE ONLY/256 KiB Transfer Size” Test Run Data**

[SPC-2 “Large File Processing/WRITE ONLY/256 KiB Transfer Size” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)  
(3 pages)

**SPC-2 “Large File Processing/WRITE ONLY/256 KiB Transfer Size” Graphs**

**Average Data Rate – Complete Test Run**

**Average Data Rate – Measurement Interval (MI) Only**

**Average Data Rate per Stream**

**Average Response Time**

[SPC-2 “Large File Processing/WRITE ONLY/256 KiB Transfer Size” graphs](#)  
(four pages, 1 graph per page)

## Large File Processing Test – READ-WRITE Test Phase

### Clause 10.6.9.1.2

1. *A table that will contain the following information for each "READ-WRITE, 1024 KiB Transfer Size" Test Run:*
  - *The number of Streams specified.*
  - *The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.*
2. *Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "READ-WRITE, 1024 KiB Transfer Size" Test Runs as specified in Clauses 10.1.4 – 10.1.6.*
3. *A table that will contain the following information for each "READ-WRITE, 256 KiB Transfer Size" Test Run:*
  - *The number of Streams specified.*
  - *The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.*
4. *Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "READ-WRITE, 256 KiB Transfer Size" Test Runs as specified in Clauses 10.1.4 – 10.1.6.*

*A hyperlink for each of the above tables and graphs may appear in the FDR to provide access to the table or graph.*

A hyperlink to a table with the SPC-2 "Large File Processing/READ-WRITE/1024 KiB Transfer Size" Test Run data appears on the next page. That entry is followed by hyperlinks to graphs illustrating the average Data Rate, average Data Rate per Stream, and average Response Time produced by the same Test Runs. The table and graphs present the data at five-second intervals.

Immediately following the above SPC-2 "Large File Processing/READ-WRITE/1024 KiB Transfer Size" entries will be hyperlinks for SPC-2 "Large File Processing/READ-WRITE/256 KiB Transfer Size" table and graphs. The table contains the Test Run data and the graphs illustrate the average Data Rate, average Data Rate per Stream, and average Response Time produced by the Test Runs.

## SPC-2 “Large File Processing/READ-WRITE/1024 KiB Transfer Size” Test Run Data

[SPC-2 “Large File Processing/READ-WRITE/1024 KiB Transfer Size” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)  
(3 pages)

## SPC-2 “Large File Processing/READ-WRITE/1024 KiB Transfer Size” Graphs

Average Data Rate – Complete Test Run

Average Data Rate – Measurement Interval (MI) Only

Average Data Rate per Stream

Average Response Time

[SPC-2 “Large File Processing/READ-WRITE/1024 KiB Transfer Size” graphs](#)  
(four pages, 1 graph per page)

## SPC-2 “Large File Processing/READ-WRITE/256 KiB Transfer Size” Test Run Data

[SPC-2 “Large File Processing/READ-WRITE/256 KiB Transfer Size” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)  
(3 pages)

## SPC-2 “Large File Processing/READ-WRITE/256 KiB Transfer Size” Graphs

Average Data Rate – Complete Test Run

Average Data Rate – Measurement Interval (MI) Only

Average Data Rate per Stream

Average Response Time

[SPC-2 “Large File Processing/READ-WRITE/256 KiB Transfer Size” graphs](#)  
(four pages, 1 graph per page)

## Large File Processing Test – READ ONLY Test Phase

### Clause 10.6.9.1.3

1. *A table that will contain the following information for each "READ ONLY, 1024 KiB Transfer Size" Test Run:*
  - *The number of Streams specified.*
  - *The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.*
2. *Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "READ ONLY, 1024 KiB Transfer Size" Test Runs as specified in Clauses 10.1.4 – 10.1.6.*
3. *A table that will contain the following information for each "READ ONLY, 256 KiB Transfer Size" Test Run:*
  - *The number of Streams specified.*
  - *The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.*
4. *Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "READ ONLY, 256 KiB Transfer Size" Test Runs as specified in Clauses 10.1.4 – 10.1.6.*

*A hyperlink for each of the above tables and graphs may appear in the FDR to provide access to the table or graph.*

A hyperlink to a table with the SPC-2 "Large File Processing/READ ONLY/1024 KiB Transfer Size" Test Run data appears on the next page. That entry is followed by hyperlinks to graphs illustrating the average Data Rate, average Data Rate per Stream, and average Response Time produced by the same Test Runs. The table and graphs present the data at five-second intervals.

Immediately following the above SPC-2 "Large File Processing/READ ONLY/1024 KiB Transfer Size" entries will be hyperlinks for SPC-2 "Large File Processing/READ ONLY/256 KiB Transfer Size" table and graphs. The table contains the Test Run data and the graphs illustrate the average Data Rate, average Data Rate per Stream, and average Response Time produced by the Test Runs.

**SPC-2 “Large File Processing/READ ONLY/1024 KiB Transfer Size” Test Run Data**

[SPC-2 “Large File Processing/READ ONLY/1024 KiB Transfer Size” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)  
(3 pages)

**SPC-2 “Large File Processing/READ ONLY/1024 KiB Transfer Size” Graphs**

**Average Data Rate – Complete Test Run**

**Average Data Rate – Measurement Interval (MI) Only**

**Average Data Rate per Stream**

**Average Response Time**

[SPC-2 “Large File Processing/READ ONLY/1024 KiB Transfer Size” graphs](#)  
(four pages, 1 graph per page)

**SPC-2 “Large File Processing/READ ONLY/256 KiB Transfer Size” Test Run Data**

[SPC-2 “Large File Processing/READ ONLY/256 KiB Transfer Size” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)  
(3 pages)

**SPC-2 “Large File Processing/READ ONLY/256 KiB Transfer Size” Graphs**

**Average Data Rate – Complete Test Run**

**Average Data Rate – Measurement Interval (MI) Only**

**Average Data Rate per Stream**

**Average Response Time**

[SPC-2 “Large File Processing/READ ONLY/256 KiB Transfer Size” graphs](#)  
(four pages, 1 graph per page)

## Large Database Query Test

### Clause 6.4.4.1

*The Large Database Query Test is comprised of a set of I/O operations representative of scans or joins of large relational tables such as those performed for data mining or business intelligence.*

### Clause 6.4.4.2

*The Large Database Query Test has two Test Phases, which shall be executed in the following uninterrupted sequence:*

- 1. 1024 KiB TRANSFER SIZE*
- 2. 64 KiB TRANSFER SIZE*

*The BC shall not be restarted or manually disturbed, altered, or adjusted during the execution of the Large File Processing Test. If power is lost to the BC during this Test all results shall be rendered invalid and the Test re-run in its entirety.*

### Clause 10.6.9.2

*The Full Disclosure Report will contain the following content for the Large Database Query Test:*

- 1. A listing of the SPC-2 Workload Generator commands and parameters used to execute each of the Test Runs in the Large Database Query Test.*
- 2. The human readable SPC-2 Test Results File for each of the Test Runs in the Large Database Query Test.*
- 3. A table that contains the following information for each Test Run in the two Test Phases of the Large Database Query Test:*
  - Average Data Rate: The average Data Rate, in MB per second for the Measurement Interval of each Test Run in the Large Database Query Test.*
  - Average Data Rate per Stream: The average Data Rate per Stream, in MB per second, for the Measurement Interval of each Test Run in the Large Database Query Test.*
  - Average Response Time: The average response time, in milliseconds (ms), for the Measurement Interval of each Test Run in the Large Database Query Test.*
- 4. Average Data Rate, Average Data Rate per Stream and Average Response time graphs as defined in Clauses 10.1.1, 10.1.2 and 10.1.3.*

## SPC-2 Workload Generator Commands and Parameters

The SPC-2 Workload Generator commands and parameters for the Large Database Query Test Runs are documented in [Appendix E: SPC-2 Workload Generator Execution Commands and Parameters](#) on Page [152](#).

## SPC-2 Test Results File

A link to the SPC-2 Test Results file generated from the Large Database Query Test Runs is listed below.

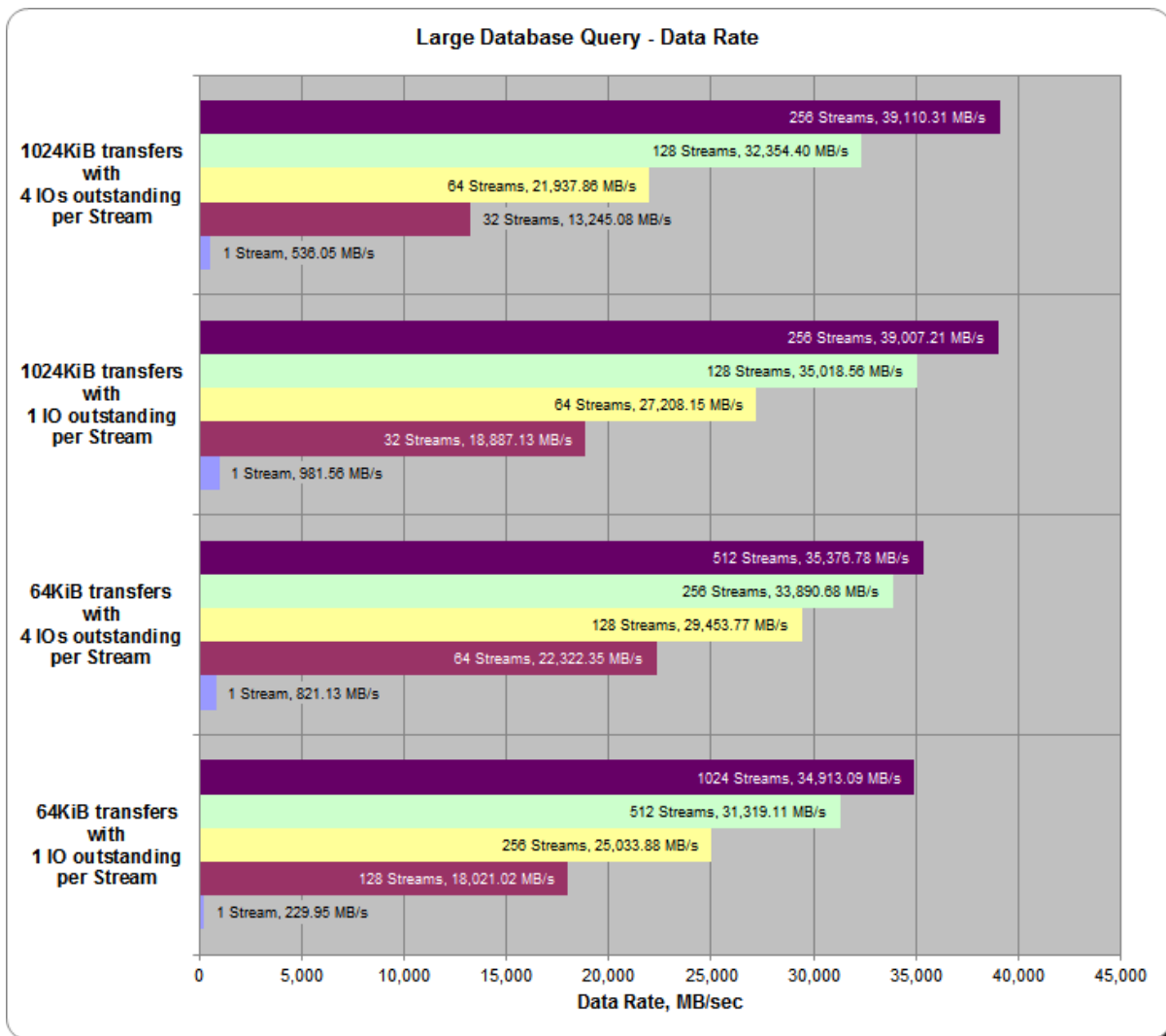
[SPC-2 Large Database Query Test Results File](#)

### SPC-2 Large Database Query Average Data Rates (MB/s)

The average Data Rate (MB/s) for each Test Run in the two Test Phases of the SPC-2 Large Database Query Test is listed in the table below as well as illustrated in the following graph.

Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 4 IOs/Stream	536.05	13,245.08	21,937.86	32,354.40	39,110.31
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 1 IO/Stream	981.56	18,887.13	27,208.15	35,018.56	39,007.21
Test Run Sequence	1 Stream	64 Streams	128 Streams	256 Streams	512 Streams
64KiB w/ 4 IOs/Stream	821.13	22,322.35	29,453.77	33,890.68	35,376.78
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
64KiB w/ 1 IO/Stream	229.95	18,021.02	25,033.88	31,319.11	34,913.09

### SPC-2 Large Database Query Average Data Rates Graph

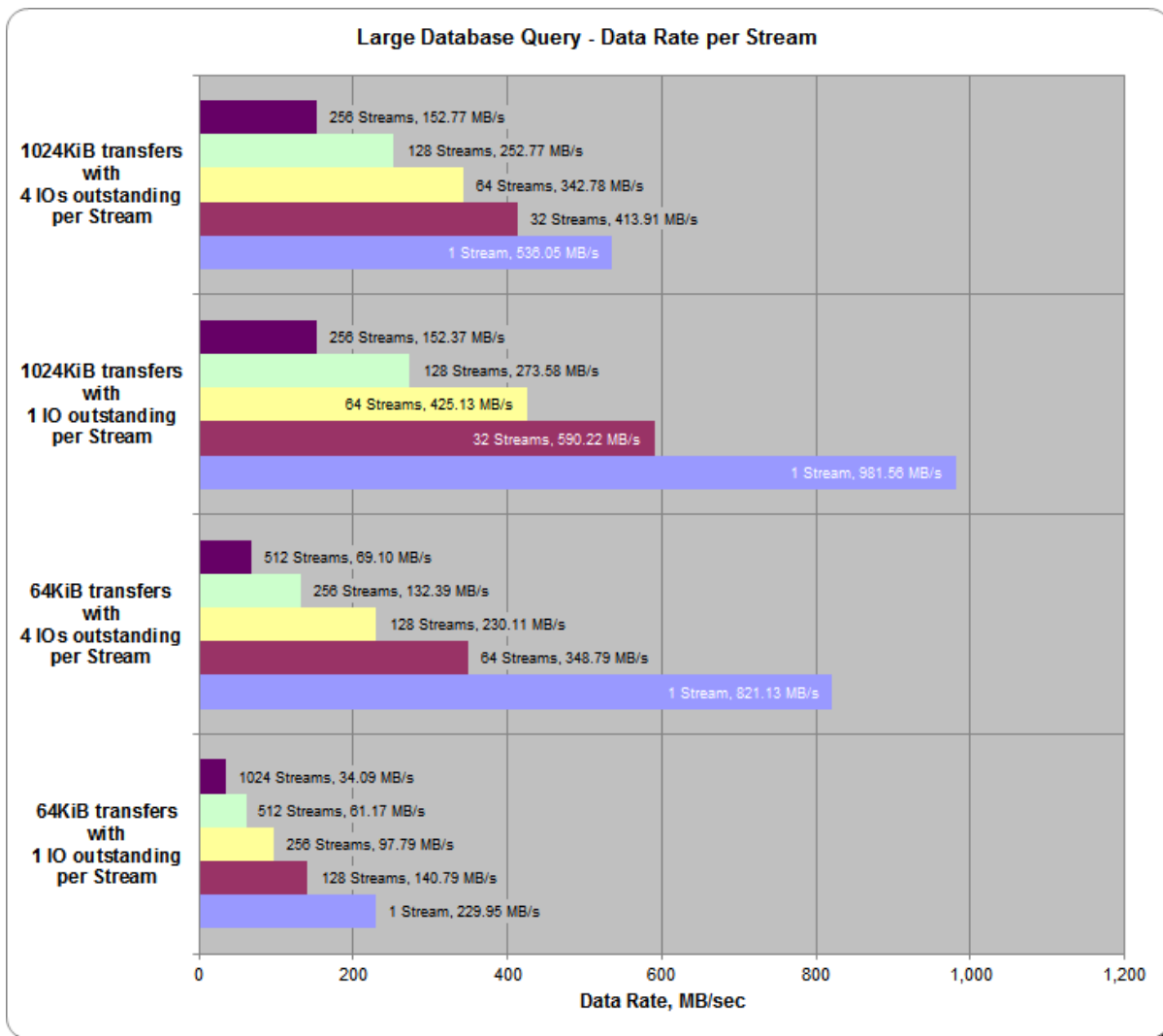


### SPC-2 Large Database Query Average Data Rate per Stream

The average Data Rate per Stream for each Test Run in the two Test Phases of the SPC-2 Large Database Query Test is listed in the table below as well as illustrated in the following graph.

Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 4 IOs/Stream	536.05	413.91	342.78	252.77	152.77
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 1 IO/Stream	981.56	590.22	425.13	273.58	152.37
Test Run Sequence	1 Stream	64 Streams	128 Streams	256 Streams	512 Streams
64KiB w/ 4 IOs/Stream	821.13	348.79	230.11	132.39	69.10
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
64KiB w/ 1 IO/Stream	229.95	140.79	97.79	61.17	34.09

### SPC-2 Large Database Query Average Data Rate per Stream Graph



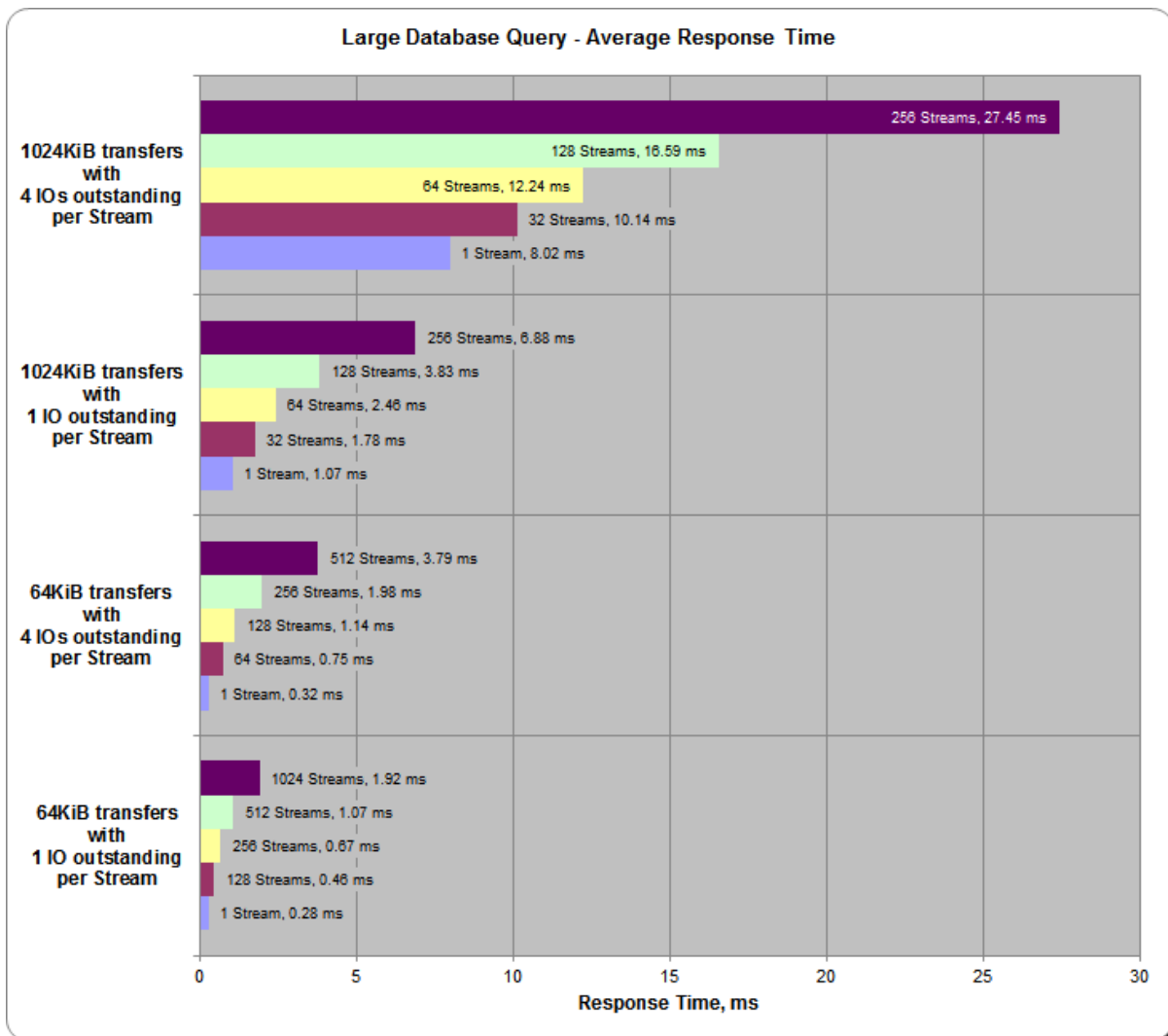


### SPC-2 Large Database Query Average Response Time

The average Response Time, in milliseconds, for each Test Run in the two Test Phases of the SPC-2 Large Database Query Test is listed in the table below as well as illustrated in the following graph.

Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 4 IOs/Stream	8.02	10.14	12.24	16.59	27.45
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 1 IO/Stream	1.07	1.78	2.46	3.83	6.88
Test Run Sequence	1 Stream	64 Streams	128 Streams	256 Streams	512 Streams
64KiB w/ 4 IOs/Stream	0.32	0.75	1.14	1.98	3.79
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
64KiB w/ 1 IO/Stream	0.28	0.46	0.67	1.07	1.92

### SPC-2 Large Database Query Average Response Time Graph



## Large Database Query Test – 1024 KiB TRANSFER SIZE Test Phase

### Clause 10.6.9.2.1

1. A table that will contain the following information for each "1024 KiB Transfer Size, 4 Outstanding I/Os" Test Run:
  - The number of Streams specified.
  - The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.
2. Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "1024 KiB Transfer Size, 4 Outstanding I/Os" Test Runs as specified in Clauses 10.1.4 – 10.1.6.
3. A table that will contain the following information for each "1024 KiB Transfer Size, 1 Outstanding I/O" Test Run:
  - The number of Streams specified.
  - The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.
4. Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "1024 KiB Transfer Size, 1 Outstanding I/O" Test Runs as specified in Clauses 10.1.4 – 10.1.6.

A hyperlink for each of the above tables and graphs may appear in the FDR to provide access to the table or graph.

A hyperlink to a table with the SPC-2 "Large Database Query/1024 KiB TRANSFER SIZE/4 Outstanding I/Os" Test Run data appears on the next page. That entry is followed by hyperlinks to graphs illustrating the average Data Rate, average Data Rate per Stream, and average Response Time produced by the same Test Runs. The table and graphs present the data at five-second intervals.

Immediately following the above SPC-2 "Large Database Query/1024 KiB TRANSFER SIZE/4 Outstanding I/Os" entries will be hyperlinks for SPC-2 "Large Database Query/1024 KiB TRANSFER SIZE/1 Outstanding I/O" table and graphs. The table contains the Test Run data and the graphs illustrate the average Data Rate, average Data Rate per Stream, and average Response Time produced by the Test Runs.

## SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/4 Outstanding I/Os” Test Run Data

[SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/4 Outstanding I/Os” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)

*(3 pages)*

## SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/4 Outstanding I/Os” Graphs

Average Data Rate – Complete Test Run

Average Data Rate – Measurement Interval (MI) Only

Average Data Rate per Stream

Average Response Time

[SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/4 Outstanding I/Os” graphs](#)

*(four pages, 1 graph per page)*

## SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/1 Outstanding I/O” Test Run Data

[SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/1 Outstanding I/O” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)

*(3 pages)*

## SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/1 Outstanding I/O” Graphs

Average Data Rate – Complete Test Run

Average Data Rate – Measurement Interval (MI) Only

Average Data Rate per Stream

Average Response Time

[SPC-2 “Large Database Query/1024 KIB TRANSFER SIZE/1 Outstanding I/O” graphs](#)

*(four pages, 1 graph per page)*

## Large Database Query Test – 64 KiB TRANSFER SIZE Test Phase

### Clause 10.6.9.2.2

1. A table that will contain the following information for each "64 KiB Transfer Size, 4 Outstanding I/Os" Test Run:
  - The number of Streams specified.
  - The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.
2. Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "64 KiB Transfer Size, 4 Outstanding I/Os" Test Runs as specified in Clauses 10.1.4 – 10.1.6.
3. A table that will contain the following information for each "64 KiB Transfer Size, 1 Outstanding I/O" Test Run:
  - The number of Streams specified.
  - The Average Data Rate, Average Data Rate per Stream, and Average Response Time reported at five second intervals.
4. Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the "64 KiB Transfer Size, 1 Outstanding I/O" Test Runs as specified in Clauses 10.1.4 – 10.1.6.

A hyperlink for each of the above tables and graphs may appear in the FDR to provide access to the table or graph.

A hyperlink to a table with the SPC-2 "Large Database Query/64 KiB TRANSFER SIZE/4 Outstanding I/Os" Test Run data appears on the next page. That entry is followed by hyperlinks to graphs illustrating the average Data Rate, average Data Rate per Stream, and average Response Time produced by the same Test Runs. The table and graphs present the data at five-second intervals.

Immediately following the above SPC-2 "Large Database Query/64 KiB TRANSFER SIZE/4 Outstanding I/Os" entries will be hyperlinks for SPC-2 "Large Database Query/64 KiB TRANSFER SIZE/1 Outstanding I/O" table and graphs. The table contains the Test Run data and the graphs illustrate the average Data Rate, average Data Rate per Stream, and average Response Time produced by the Test Runs.

**SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/4 Outstanding I/Os” Test Run Data**

[SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/4 Outstanding I/Os” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)

*(3 pages)*

**SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/4 Outstanding I/Os” Graphs**

**Average Data Rate – Complete Test Run**

**Average Data Rate – Measurement Interval (MI) Only**

**Average Data Rate per Stream**

**Average Response Time**

[SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/4 Outstanding I/Os” graphs](#)

*(four pages, 1 graph per page)*

**SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/1 Outstanding I/O” Test Run Data**

[SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/1 Outstanding I/O” Test Run Data Tables: Ramp-Up, Measurement Interval, Run-Out, and Ramp-Down Periods](#)

*(3 pages)*

**SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/1 Outstanding I/O” Graphs**

**Average Data Rate – Complete Test Run**

**Average Data Rate – Measurement Interval (MI) Only**

**Average Data Rate per Stream**

**Average Response Time**

[SPC-2 “Large Database Query/64 KiB TRANSFER SIZE/1 Outstanding I/O” graphs](#)

*(four pages, 1 graph per page)*

## Video on Demand Delivery Test

### Clause 6.4.5.1

*The Video on Demand Delivery Test represents the I/O operations required to enable individualized video entertainment for a community of subscribers, which draw from a digital film library.*

### Clause 6.4.5.2

*The Video on Demand Delivery Test consists of one (1) Test Run.*

*The BC shall not be restarted or manually disturbed, altered, or adjusted during the execution of the Video on Demand Delivery Test. If power is lost to the BC during this Test all results shall be rendered invalid and the Test re-run in its entirety.*

### Clause 10.6.9.3

*The Full Disclosure Report will contain the following content for the Video on Demand Delivery Test:*

- 1. A listing of the SPC-2 Workload Generator commands and parameters used to execute the Test Run in the Video on Demand Delivery Test.*
- 2. The human readable SPC-2 Test Results File for the Test Run in the Video on Demand Delivery Test.*
- 3. A table that contains the following information for the Test Run in the Video on Demand Delivery Test:*
  - The number Streams specified.*
  - The Ramp-Up duration in seconds.*
  - The Measurement Interval duration in seconds.*
  - The average data rate, in MB per second, for the Measurement Interval.*
  - The average data rate, in MB per second, per Stream for the Measurement Interval.*
- 4. A table that contains the following information for the single Video on Demand Delivery Test Run:*
  - The number Streams specified.*
  - The average data rate, average data rate per stream, average Response Time, and Maximum Response Time reported at 60 second intervals.*
- 5. Average Data Rate by Intervals, Average Data Rate per Stream by Intervals, and Average Response Time by Intervals graphs for the single Video on Demand Delivery Test Run as specified in Clause 10.1.8.*
- 6. A Maximum Response Time (intervals) graph as specified in Clause 10.1.8.*

## SPC-2 Workload Generator Commands and Parameters

The SPC-2 Workload Generator commands and parameters for the Video on Demand Delivery Test Run are documented in [Appendix E: SPC-2 Workload Generator Execution Commands and Parameters](#) on Page [152](#)..

### SPC-2 Test Results File

A link to the SPC-2 Test Results file generated from the Video on Demand Delivery Test Run is listed below.

[SPC-2 Video on Demand Delivery Test Results File](#)

### SPC-2 Video on Demand Delivery Test Run Data

The number of Streams specified, Ramp-Up duration in seconds, Measurement Interval duration in seconds, average Data Rate for the Measurement Interval, and average Data Rate per Stream for the Measurement Interval are listed in the following table.

SPC-2-VOD	TR1
Number of Streams	46,000
Ramp-up Time, sec	1,200
Measurement Interval, sec	7,200
Average Data Rate, MB/sec	36,175.91
Per Stream Data Rate, MB/sec	0.79
Average Response Time, ms	6.44
Average Max Response Time, ms	293.62

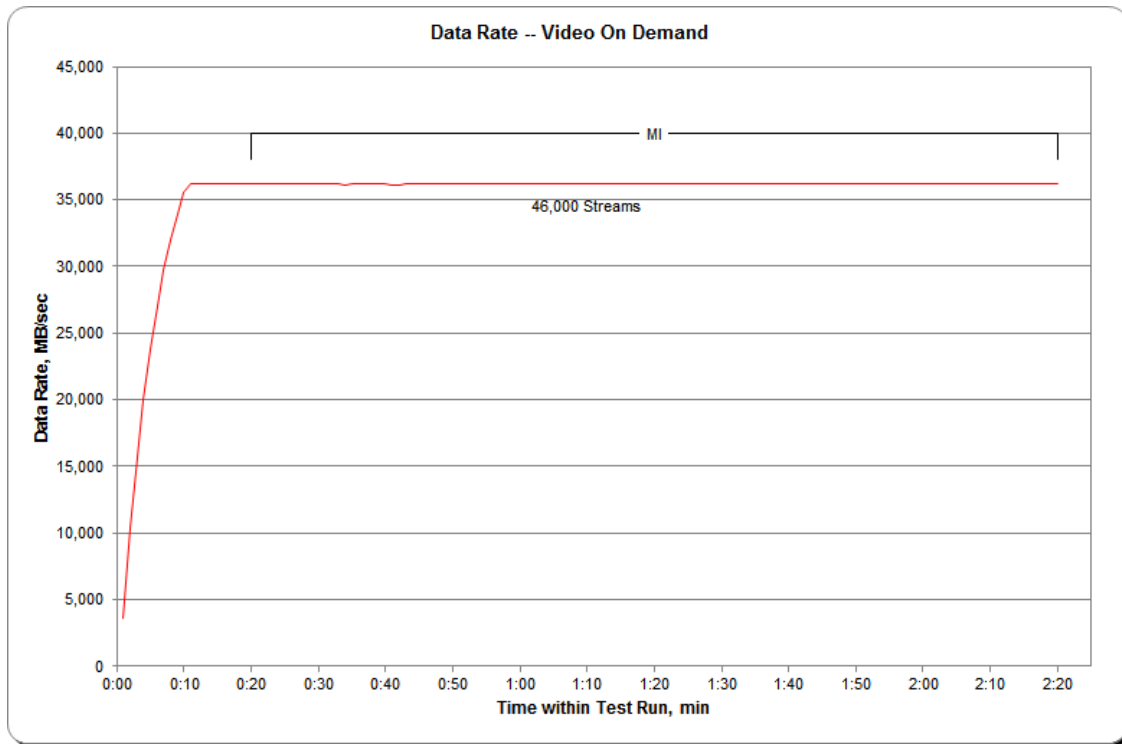
### Video on Demand Delivery Test – TEST RUN DATA BY INTERVAL

The SPC-2 Video on Demand Delivery Test Run data is contained in the table that appears below. That table is followed by graphs illustrating the average Data Rate and average Data Rate per Stream produced by the same Test Runs. The table and graphs present the data at sixty second intervals.

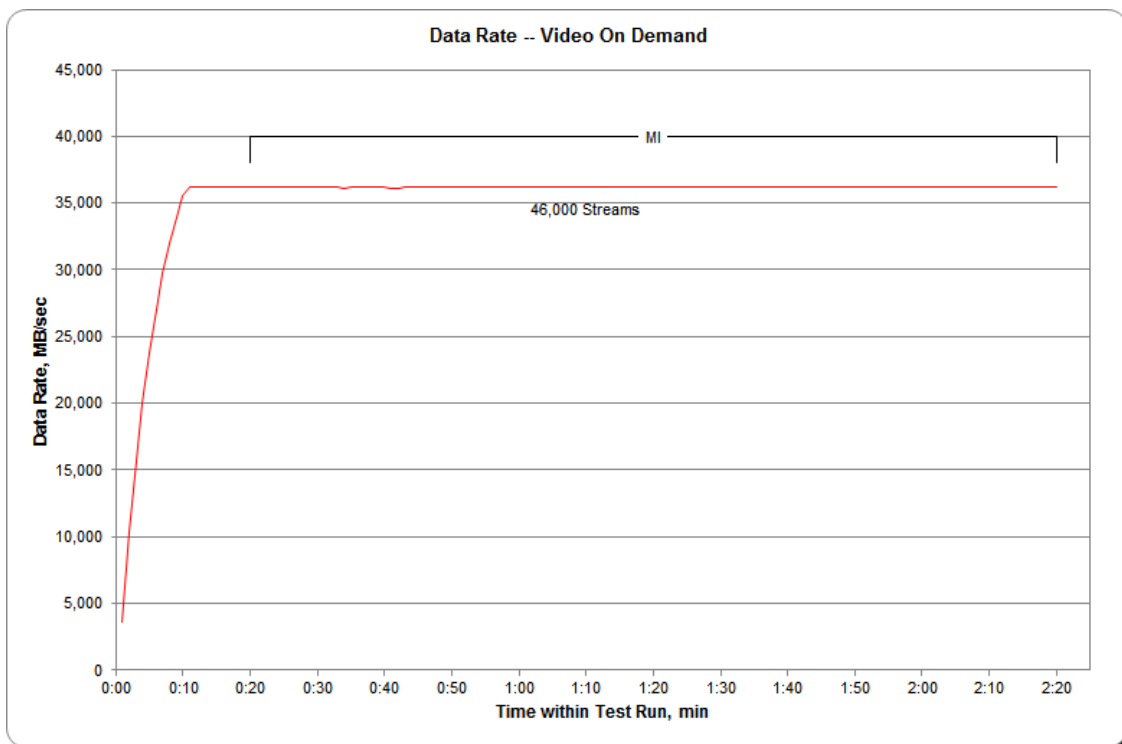
46,000 Streams					46,000 Streams					46,000 Streams				
TR1	46,000 Streams				TR1	46,000 Streams				TR1	46,000 Streams			
Test Run Sequence Time	Data Rate, MB/sec	Data Rate /Stream, MB/sec	Response Time, ms	Maximum Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate /Stream, MB/sec	Response Time, ms	Maximum Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate /Stream, MB/sec	Response Time, ms	Maximum Response Time, ms
0:01:00	3,643.37	0.67	3.19	48.47	0:48:00	36,177.31	0.79	6.25	269.37	1:35:00	36,175.36	0.79	6.52	336.85
0:02:00	10,392.41	0.77	3.47	79.53	0:49:00	36,177.21	0.79	6.13	276.70	1:36:00	36,178.42	0.79	6.53	341.12
0:03:00	15,649.57	0.77	3.68	105.84	0:50:00	36,177.25	0.79	6.05	272.74	1:37:00	36,174.93	0.79	6.49	327.20
0:04:00	20,041.85	0.78	12.74	233.69	0:51:00	36,172.94	0.79	6.08	273.66	1:38:00	36,177.09	0.79	6.48	291.52
0:05:00	23,786.57	0.78	4.05	149.92	0:52:00	36,176.30	0.79	6.05	275.53	1:39:00	36,176.63	0.79	6.57	286.76
0:06:00	27,000.20	0.78	4.46	198.92	0:53:00	36,176.54	0.79	6.06	261.20	1:40:00	36,174.57	0.79	6.56	274.95
0:07:00	29,729.41	0.78	5.01	206.36	0:54:00	36,175.70	0.79	6.06	279.65	1:41:00	36,176.48	0.79	6.58	302.86
0:08:00	32,032.48	0.78	5.37	241.98	0:55:00	36,175.22	0.79	6.03	268.70	1:42:00	36,175.87	0.79	6.46	300.89
0:09:00	33,965.03	0.78	5.68	315.43	0:56:00	36,176.92	0.79	6.03	282.15	1:43:00	36,176.00	0.79	6.43	311.77
0:10:00	35,599.85	0.78	6.14	324.46	0:57:00	36,175.98	0.79	6.05	272.46	1:44:00	36,174.49	0.79	6.40	296.28
0:11:00	36,176.80	0.79	6.34	310.79	0:58:00	36,176.98	0.79	6.06	281.58	1:45:00	36,176.75	0.79	6.28	301.24
0:12:00	36,175.41	0.79	6.33	445.66	0:59:00	36,176.13	0.79	6.04	281.53	1:46:00	36,175.22	0.79	6.30	308.64
0:13:00	36,175.81	0.79	6.36	330.69	1:00:00	36,175.67	0.79	6.05	278.46	1:47:00	36,174.62	0.79	6.29	279.51
0:14:00	36,175.66	0.79	6.36	274.66	1:01:00	36,175.37	0.79	6.06	278.01	1:48:00	36,175.17	0.79	6.35	278.76
0:15:00	36,176.17	0.79	6.30	276.26	1:02:00	36,175.73	0.79	6.22	272.17	1:49:00	36,176.97	0.79	6.48	279.52
0:16:00	36,176.62	0.79	6.33	279.97	1:03:00	36,181.98	0.79	6.41	273.63	1:50:00	36,175.31	0.79	6.47	290.61
0:17:00	36,175.04	0.79	6.31	323.62	1:04:00	36,175.63	0.79	6.48	284.06	1:51:00	36,176.30	0.79	6.41	304.72
0:18:00	36,176.56	0.79	6.34	298.12	1:05:00	36,176.81	0.79	6.44	284.19	1:52:00	36,176.35	0.79	6.44	314.61
0:19:00	36,177.07	0.79	6.35	309.75	1:06:00	36,175.47	0.79	6.37	295.05	1:53:00	36,176.18	0.79	6.50	351.79
0:20:00	36,177.00	0.79	6.30	292.53	1:07:00	36,173.05	0.79	6.37	279.21	1:54:00	36,174.83	0.79	6.44	309.87
0:21:00	36,176.32	0.79	6.45	305.17	1:08:00	36,176.04	0.79	6.41	278.41	1:55:00	36,175.59	0.79	6.43	308.13
0:22:00	36,177.21	0.79	6.50	332.46	1:09:00	36,177.37	0.79	6.37	276.54	1:56:00	36,176.26	0.79	6.40	286.27
0:23:00	36,176.82	0.79	6.51	291.19	1:10:00	36,174.23	0.79	6.40	275.86	1:57:00	36,177.23	0.79	6.43	290.88
0:24:00	36,175.84	0.79	6.51	308.53	1:11:00	36,176.55	0.79	6.42	276.12	1:58:00	36,174.04	0.79	6.47	285.86
0:25:00	36,177.32	0.79	6.46	280.54	1:12:00	36,175.41	0.79	6.47	274.74	1:59:00	36,175.03	0.79	6.43	336.53
0:26:00	36,176.73	0.79	6.37	279.70	1:13:00	36,176.14	0.79	6.50	280.19	2:00:00	36,175.85	0.79	6.43	288.63
0:27:00	36,173.55	0.79	6.41	278.25	1:14:00	36,184.99	0.79	6.44	284.45	2:01:00	36,176.64	0.79	6.42	294.75
0:28:00	36,177.14	0.79	6.43	298.42	1:15:00	36,172.69	0.79	6.43	287.84	2:02:00	36,175.96	0.79	6.53	287.90
0:29:00	36,176.18	0.79	6.45	272.87	1:16:00	36,174.54	0.79	6.47	289.02	2:03:00	36,175.53	0.79	6.60	285.53
0:30:00	36,180.58	0.79	6.44	286.23	1:17:00	36,176.00	0.79	6.50	284.63	2:04:00	36,163.19	0.79	6.54	282.56
0:31:00	36,176.86	0.79	6.37	293.74	1:18:00	36,175.83	0.79	6.49	332.92	2:05:00	36,176.11	0.79	6.55	285.29
0:32:00	36,172.50	0.79	6.43	274.11	1:19:00	36,175.93	0.79	6.51	315.47	2:06:00	36,177.15	0.79	6.63	294.81
0:33:00	36,177.38	0.79	6.43	288.54	1:20:00	36,175.94	0.79	6.46	327.88	2:07:00	36,181.60	0.79	6.62	284.48
0:34:00	36,137.54	0.79	6.37	277.73	1:21:00	36,175.47	0.79	6.62	300.59	2:08:00	36,175.39	0.79	6.63	278.04
0:35:00	36,174.59	0.79	6.39	280.84	1:22:00	36,175.48	0.79	6.75	286.55	2:09:00	36,172.21	0.79	6.59	294.12
0:36:00	36,175.73	0.79	6.39	283.35	1:23:00	36,177.02	0.79	6.77	291.63	2:10:00	36,175.55	0.79	6.60	285.01
0:37:00	36,175.42	0.79	6.42	299.30	1:24:00	36,175.00	0.79	6.68	285.35	2:11:00	36,176.50	0.79	6.59	287.81
0:38:00	36,200.37	0.79	6.45	308.89	1:25:00	36,176.45	0.79	6.61	288.30	2:12:00	36,175.63	0.79	6.56	282.30
0:39:00	36,177.91	0.79	6.38	323.73	1:26:00	36,175.70	0.79	6.65	289.68	2:13:00	36,174.23	0.79	6.55	285.05
0:40:00	36,236.84	0.79	6.41	317.29	1:27:00	36,175.87	0.79	6.64	293.15	2:14:00	36,175.18	0.79	6.56	292.25
0:41:00	36,089.00	0.78	6.50	301.30	1:28:00	36,177.04	0.79	6.60	292.84	2:15:00	36,176.27	0.79	6.61	311.06
0:42:00	36,113.00	0.79	6.59	290.61	1:29:00	36,176.60	0.79	6.62	303.64	2:16:00	36,175.66	0.79	6.62	320.91
0:43:00	36,176.03	0.79	6.53	274.06	1:30:00	36,173.78	0.79	6.64	351.04	2:17:00	36,175.37	0.79	6.58	293.52
0:44:00	36,176.42	0.79	6.45	317.83	1:31:00	36,175.08	0.79	6.53	376.64	2:18:00	36,176.62	0.79	6.56	283.21
0:45:00	36,175.59	0.79	6.46	287.08	1:32:00	36,177.52	0.79	6.54	304.25	2:19:00	36,175.30	0.79	6.57	290.56
0:46:00	36,175.27	0.79	6.55	294.64	1:33:00	36,175.96	0.79	6.46	318.53	2:20:00	36,176.24	0.79	6.58	293.75
0:47:00	36,175.49	0.79	6.54	279.07	1:34:00	36,175.58	0.79	6.52	291.85	0:00:00	0.00	0.00	0.00	0.00



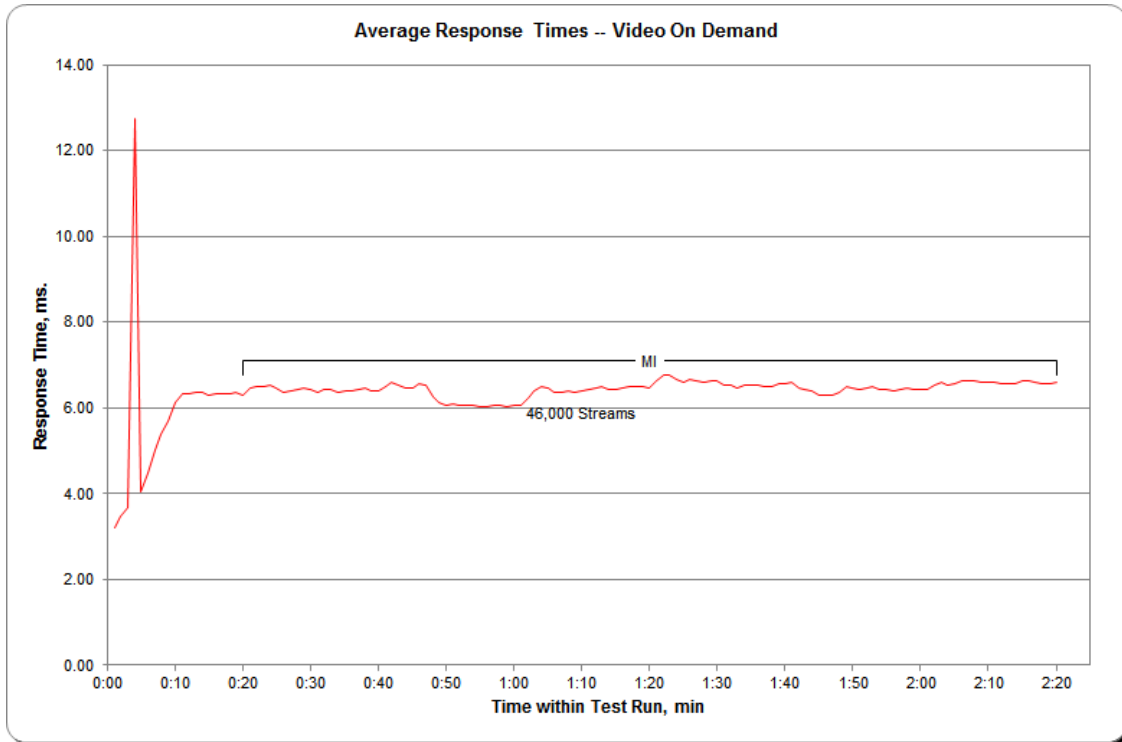
### SPC-2 Video on Demand Delivery Average Data Rate Graph



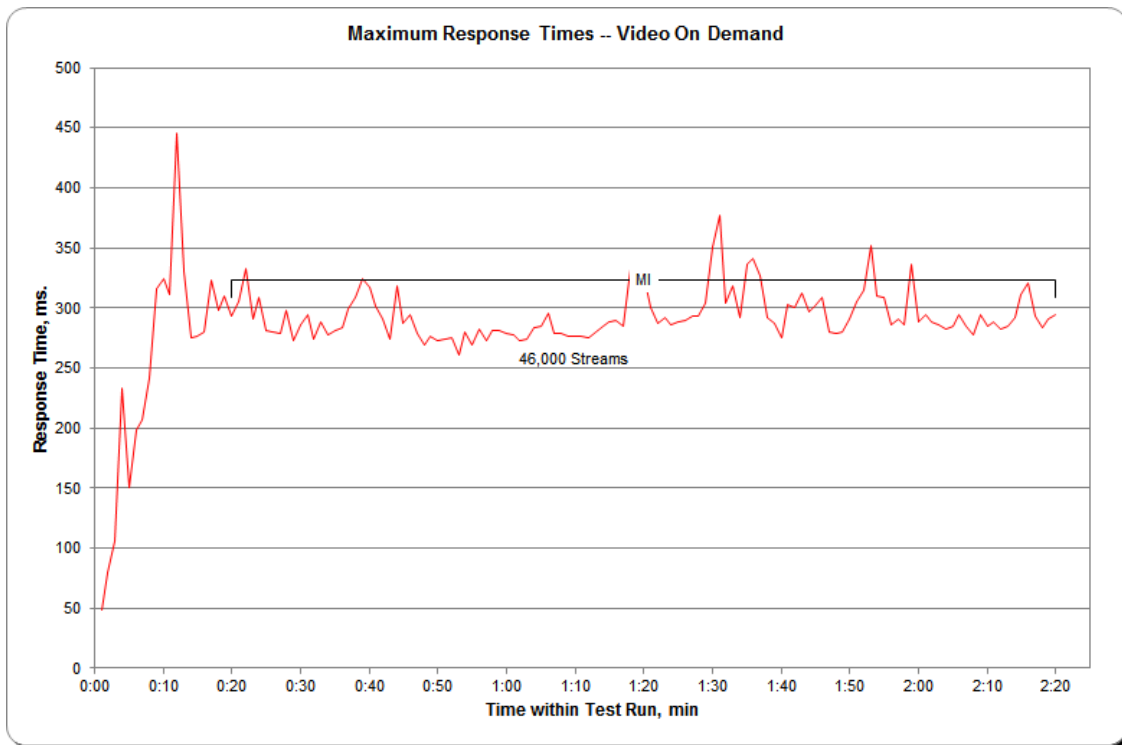
### SPC-2 Video on Demand Delivery Average Data Rate per Stream Graph



### SPC-2 Video on Demand Delivery Average Response Time Graph



### SPC-2 Video on Demand Delivery Maximum Response Time Graph



## Data Persistence Test

### Clause 7

*The Data Persistence Test demonstrates the Tested Storage Configuration (TSC):*

- *Is capable of maintain data integrity across a power cycle.*
- *Ensures the transfer of data between Logical Volumes and host systems occurs without corruption or loss.*

*The SPC-2 Workload Generator will write a specific pattern at randomly selected locations throughout the Total ASU Capacity (Persistence Test Run 1). The SPC-2 Workload Generator will retain the information necessary to later validate the pattern written at each location.*

*The Tested Storage Configuration will be shutdown and restarted using a power off/power on cycle at the end of the above sequence of write operations. In addition, any caches employing battery backup must be flushed/emptied.*

*Restart the TSC, and if the Host System(s) were shutdown and powered off, restart the Host System(s).*

*The SPC-2 Workload Generator will utilize the retained data from Persistence Test Run 1 to verify (Persistence Run 2) the bit patterns written in Persistence Test Run 1 and their corresponding location.*

### Clause 10.6.9.4

*The Full Disclosure Report will contain the following content for the Data Persistence Test:*

1. *A listing of the SPC-2 Workload Generator commands and parameters used to execute each of the Test Runs in the Persistence Test.*
2. *The human readable SPC-2 Test Results File for each of the Test Runs in the Data Persistence Test.*
3. *A table from the successful Persistence Test, which contains the results from the test.*

## SPC-2 Workload Generator Commands and Parameters

The SPC-2 Workload Generator commands and parameters for the Persistence Test Runs are documented in [Appendix E: SPC-2 Workload Generator Execution Commands and Parameters](#) on Page [152](#).

## Data Persistence Test Results File

A link to the test result file generated from each Data Persistence Test Run is listed below.

[Persistence 1 Test Run \(write phase\) Results File](#)

[Persistence 2 Test Run \(read phase\) Results File](#)

### Data Persistence Test Results

<b>Data Persistence Test Results</b>	
Data Persistence Test Number: 1	
Total Number of Logical Blocks Written	6,282,231
Total Number of Logical Blocks Re-referenced	407,426
Total Number of Logical Blocks Verified	5,874,805
Total Number of Logical Blocks that Failed Verification	0
Number of Failed I/O Requests in the process of the Test	0

## **PRICED STORAGE CONFIGURATION AVAILABILITY DATE**

### **Clause 10.6.9**

*The committed delivery date for general availability (Availability Date) of all products that comprise the Priced Storage Configuration must be reported. When the Priced Storage Configuration includes products or components with different availability dates, the reported Availability Date must be the date at which all components are committed to be available. All availability dates, whether for individual components or for the Priced Storage Configuration as a whole, must be disclosed to a precision of one day.*

*The Availability Data shall be stated in either a combination of specific alphanumeric month, numeric day and numeric year or as “Currently Available”.*

The Oracle ZFS Storage ZS4-4 Appliance, as documented in this SPC-2 Full Disclosure Report, is currently available for customer purchase and shipment.

## **ANOMALIES OR IRREGULARITIES**

### **Clause 10.6.12**

*The FDR shall include a clear and complete description of any anomalies or irregularities encountered in the course of executing the SPC-2 benchmark that may in any way call into question the accuracy, verifiability, or authenticity of information published in this FDR.*

There were no anomalies or irregularities encountered during the SPC-2 Onsite Audit of the Oracle ZFS Storage ZS4-4 Appliance.

## **APPENDIX A: SPC-2 GLOSSARY**

### **“Decimal” (*powers of ten*) Measurement Units**

In the storage industry, the terms “kilo”, “mega”, “giga”, “tera”, “peta”, and “exa” are commonly used prefixes for computing performance and capacity. For the purposes of the SPC workload definitions, all of the following terms are defined in “powers of ten” measurement units.

- A kilobyte (KB) is equal to 1,000 ( $10^3$ ) bytes.
- A megabyte (MB) is equal to 1,000,000 ( $10^6$ ) bytes.
- A gigabyte (GB) is equal to 1,000,000,000 ( $10^9$ ) bytes.
- A terabyte (TB) is equal to 1,000,000,000,000 ( $10^{12}$ ) bytes.
- A petabyte (PB) is equal to 1,000,000,000,000,000 ( $10^{15}$ ) bytes
- An exabyte (EB) is equal to 1,000,000,000,000,000,000 ( $10^{18}$ ) bytes

### **“Binary” (*powers of two*) Measurement Units**

The sizes reported by many operating system components use “powers of two” measurement units rather than “power of ten” units. The following standardized definitions and terms are also valid and may be used in this document.

- A kibibyte (KiB) is equal to 1,024 ( $2^{10}$ ) bytes.
- A mebibyte (MiB) is equal to 1,048,576 ( $2^{20}$ ) bytes.
- A gibibyte (GiB) is equal to 1,073,741,824 ( $2^{30}$ ) bytes.
- A tebibyte (TiB) is equal to 1,099,511,627,776 ( $2^{40}$ ) bytes.
- A pebibyte (PiB) is equal to 1,125,899,906,842,624 ( $2^{50}$ ) bytes.
- An exbibyte (EiB) is equal to 1,152,921,504,606,846,967 ( $2^{60}$ ) bytes.

## **SPC-2 Data Repository Definitions**

**Total ASU Capacity:** The total storage capacity read and written in the course of executing the SPC-2 benchmark.

**Application Storage Unit (ASU):** The logical interface between the storage and SPC-2 Workload Generator. The ASU is implemented on one or more Logical Volume.

**Logical Volume:** The division of Addressable Storage Capacity into individually addressable logical units of storage used in the SPC-2 benchmark. Each Logical Volume is implemented as a single, contiguous address space.

**Addressable Storage Capacity:** The total storage (sum of Logical Volumes) that can be read and written by application programs such as the SPC-2 Workload Generator.

**Configured Storage Capacity:** This capacity includes the Addressable Storage Capacity and any other storage (parity disks, hot spares, etc.) necessary to implement the Addressable Storage Capacity.

**Physical Storage Capacity:** The formatted capacity of all storage devices physically present in the Tested Storage Configuration (TSC).

**Data Protection Overhead:** The storage capacity required to implement the selected level of data protection.

**Required Storage:** The amount of Configured Storage Capacity required to implement the Addressable Storage Configuration, excluding the storage required for the ASU.

**Global Storage Overhead:** The amount of Physical Storage Capacity that is required for storage subsystem use and unavailable for use by application programs.

**Total Unused Storage:** The sum of unused storage capacity within the Physical Storage Capacity, Configured Storage Capacity, and Addressable Storage Capacity.

## SPC-2 Data Protection Levels

**Protected 1:** The single point of failure of any *storage device* in the configuration will not result in permanent loss of access to or integrity of the SPC-2 Data Repository.

**Protected 2:** The single point of failure of any *component* in the configuration will not result in permanent loss of access to or integrity of the SPC-2 Data Repository.

## SPC-2 Test Execution Definitions

**Completed I/O Request:** An I/O Request with a Start Time and a Completion Time (see [“I/O Completion Types”](#) illustrated below).

**Completion Time:** The time recorded by the Workload Generator when an I/O Request is completed by the Tested Storage Configuration (TSC) as signaled by System Software.

**Data Rate:** The data volume, in MB, transferred by all Measured I/O Requests in an SPC-2 Test Run divided by the length of the Test Run in seconds.

**Failed I/O Request:** Any I/O Request issued by the SPC-2 Workload Generator that meets one of the following conditions (see [“I/O Completion Types”](#) illustrated below):

- The I/O Request was signaled as failed by System Software.
- The I/O Request started within the Measurement Interval, but did not complete prior to the end of the appropriate Run-Out period..
- The I/O Request started within the Run-Out period, but did not complete prior to the end of the appropriate Ramp-Down period.

**I/O Request Throughput:** The total number of Measured I/O Requests in an SPC-2 Test Run divided by the duration of the Measurement Interval in seconds.

**Measured I/O Request:** A Completed I/O Request that begins (Start Time) within a Measurement Interval and completes (Completion Time) prior to the end of the appropriate Ramp Down (see [“I/O Completion Types”](#) illustrated below).

**Measurement Interval:** A specified, contiguous period of time, after the TSC has reached Steady State, when data is collected by the Workload Generator to produce the test results for a SPC-2 Test Run (see [“SPC-2 Test Run Components”](#) illustrated below, *Test Run 1:  $T_2-T_3$  and Test Run 2:  $T_7-T_8$* ).

**Outstanding I/O Requests:** The Outstanding I/O Requests parameter specifies the maximum number of concurrent I/O Requests, associated with a give Stream, which have been issued but not yet completed. (*Clause 3.4.4 of the SPC-2 Benchmark Specification*).

**Ramp-Down:** A specified, contiguous period of time in which the TSC is required to complete I/O Requests started but not completed during the preceding Run-Out period. Ramp-Down begins at the end of the preceding Run-Out period (see [“SPC-2 Test Run Components”](#) illustrated below, *Test Run 1:  $T_4-T_5$  and Test Run 2:  $T_9-T_{10}$* ). The Workload Generator will not submit any I/O Requests during the Ramp-Down.

**Ramp-Up:** A specified, contiguous period of time required for the Benchmark Configuration (BC) to produce Steady State throughput after the Workload Generator begins submitting I/O Requests to the TSC for execution. The Ramp-Up period ends at the beginning of the Measurement Interval (see [“SPC-2 Test Run Components”](#) illustrated below, *Test Run 1:  $T_0-T_2$  and Test Run 2:  $T_5-T_7$* ).

**Response Time:** The Response Time of a Measured I/O Request is its Completion Time minus its Start Time.

**Run-Out:** A specified, contiguous period of time in which the TSC is required to complete I/O Requests started but not completed during the preceding Measurement Interval. The Run-Out period begins at the end of the preceding Measurement Interval and is a component of the Steady State period (see [“SPC-2 Test Run Components”](#) illustrated below, *Test Run 1:  $T_3-T_4$  and Test Run 2:  $T_9-T_{10}$* ). The Workload Generator will continue to submit I/O Requests at the Test Run’s specified rate during the Run-Out period.

**Start Time:** The time recorded by the Workload Generator when an I/O Request is submitted, by the Workload Generator, to the System Software for execution on the TSC.

**Steady State:** The period during which the workload presented to the TSC by the SPC-2 Workload Generator is constant and the resulting TSC I/O Request Throughput is both consistent and sustainable. The Steady State period includes both the Measurement Interval and Run-Out periods (see [“SPC-2 Test Run Components”](#) illustrated below, *Test Run 1:  $T_1-T_4$  and Test Run 2:  $T_6-T_9$* ).

Steady State is achieved only after caches in the TSC have filled and as a result the I/O Request Throughput of the TSC has stabilized.



**Stream:** A collection of Stream Segments that started within a Test Run.

**Stream Segment:** A sequentially organized pattern of I/O requests, which transfers a contiguous range of data.

**Test:** A collection of Test Phases and or Test Runs sharing a common objective.

**Test Phase:** A collection of one or more SPC-2 Test Runs sharing a common objective and intended to be run in a specific sequence.

**Test Run:** The execution of SPC-2 that produces specific SPC-2 test results. SPC-2 Test Runs have specified, measured Ramp-Up, Measurement Interval, Run-Out and Ramp-Down periods. "[SPC-2 Test Run Components](#)" (*see below*) illustrates the Ramp-Up, Steady State, Measurement Interval, Run-Out, and Ramp-Down components contained in two uninterrupted SPC-2 Test Runs (*Test Run 1:  $T_0-T_5$  and Test Run 2:  $T_5-T_{10}$* ).

**Test Run Sequence:** A related sequence of Large File Processing (LFP) or Large Database Query (LDQ) Test Runs. Each Test Run Sequence will consist of five Test Runs, which vary the number of Streams as follows:

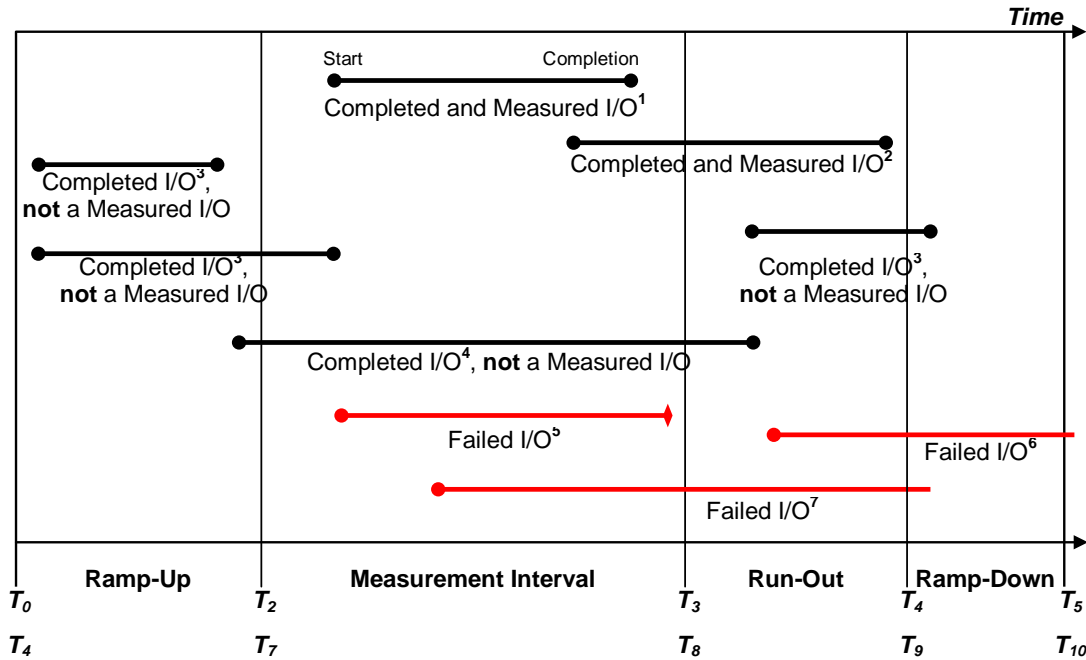
- Test Run 1: Maximum number of Streams, which is selected by the Test Sponsor
- Test Run 2: 50% of the maximum number of Streams used in Test Run 1.
- Test Run 3: 25% of the maximum number of Streams used in Test Run 1.
- Test Run 4: 12.5% of the maximum number of Streams used in Test Run 1.
- Test Run 5: 1 Stream.

Each of the five Test Runs in a Test Run Sequence will share the same attributes with the exception of the number of Streams. For example:

- Large File Processing, Read, 1024 KiB Transfer Size: Maximum Streams
- Large File Processing, Read, 1024 KiB Transfer Size: 50% of Maximum Streams
- Large File Processing, Read, 1024 KiB Transfer Size: 25% of Maximum Streams
- Large File Processing, Read, 1024 KiB Transfer Size: 12.5% of Maximum Streams
- Large File Processing, Read, 1024 KiB Transfer Size: 1 Stream

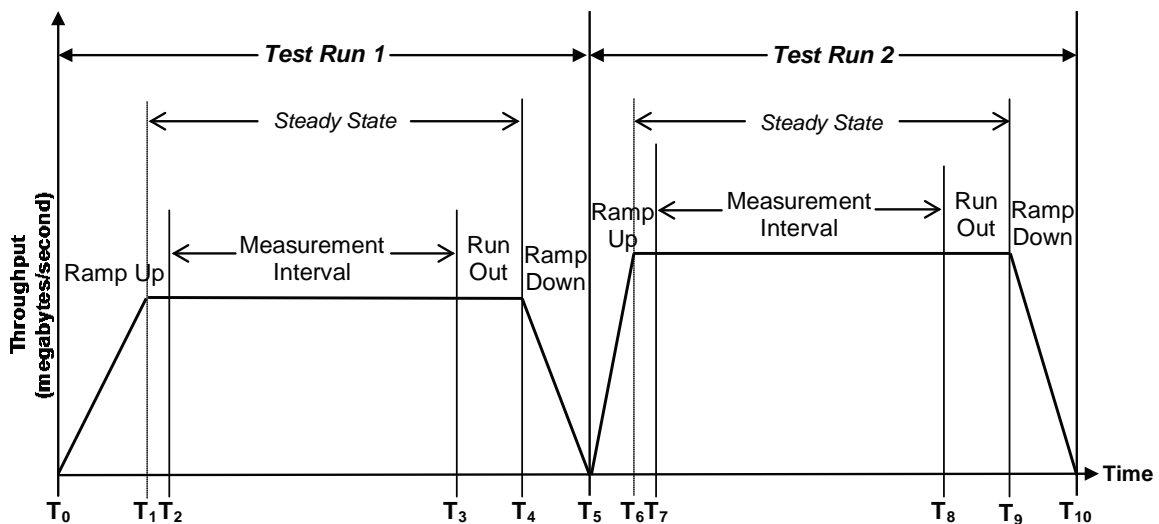
**Transfer Size:** The Transfer Size parameter specifies the number of bytes in KiB to transfer. (*Clause 3.4.7 of the SPC-2 Benchmark Specification*)

### I/O Completion Types



- Completed and Measured I/O<sup>1</sup>:** I/O started and completed within the Measurement Interval.
- Completed and Measured I/O<sup>2</sup>:** I/O started within the Measurement Interval and completed within Ramp Down.
- Completed I/O<sup>3</sup>:** I/O started before or after the Measurement Interval – not measured.
- Completed I/O<sup>4</sup>:** I/O started before and completed after the Measurement Interval – not measured.
- Failed I/O<sup>5</sup>:** Signaled as failed by System Software.
- Failed I/O<sup>6</sup>:** I/O did not complete prior to the end of Ramp-Down.
- Failed I/O<sup>7</sup>:** I/O did not complete prior to the end of Run-Out.

### SPC-2 Test Run Components



## **APPENDIX B: CUSTOMER TUNABLE PARAMETERS AND OPTIONS**

### **Solaris System Parameters**

The following Solaris system parameter entries were changed in the **/etc/system** file for each Host System:

**set sd:sd\_max\_throttle=8**

*defines the max queue depth per lun*

**set thread\_transience\_kernel=0**

**set thread\_transience\_user=0**

*Workaround for bug **15816878** Runnable thread occasionally stays in run queue for too long*

*The workaround is documented on the following My Oracle Support page:*

<https://support.oracle.com/epmos/faces/ui/km/BugDisplay.jspx?id=15816878>

## **APPENDIX C: TESTED STORAGE CONFIGURATION (TSC) CREATION**

All referenced scripts appear at the end of this appendix in the [Referenced Scripts and Files](#) section.

### **Assign Host Names and IP Addresses**

The Oracle ZFS Storage ZS4-4 Appliance is shipped with Quick Start instructions that provide details for assigning host names, IP addresses and Clustron cards. The Clustron cards support communication between storage controllers.

### **Configure the InfiniBand Switches**

The Sun Datacenter Switch IB-36 is shipped with Quick Start instructions that provide details for assigning host names, IP addresses and login information to manage the IB switch.

The two Infiniband switches are configured as described below.

#### **1. Activate IB partition 0xffff on both IB switches**

The IB network layout uses 2 IB partitions, one for each Oracle ZFS Storage controller: ffff and fffe. The ffff partition is active by default, and the fffe partition needs to be activated on both IB switches. On the Sun Datacenter Switch IB-36 this is achieved by executing the following commands on each IB switch via a comman tool, such as cygwin, PuTTY, etc..

```
smpartition start
smpartition create -n Subnet2 -pkey 0x7ffe -m full -flag ipoib
smpartition add -pkey 7ffe -port ALL_CAS -m full
smpartition add -pkey 7ffe -port ALL_SWITCHES -m full
smpartition commit
```

#### **2. Create IB datalinks on both Oracle ZFS Storage controllers**

The IB ports on each storage controller are labeled ibp0 .. ibp7. For each port, one IB datalink must be created. The label for each datalink is based on the location of the IB card inside the storage controller and can be found in the "ZFS Storage Controller X IP addresses" tables. This location can be found on the Configuration / Network page of the administration web page: <https://sbm-7440c.us.oracle.com:215/#configuration/network>. This URL will be active on the storage controller af going throught the Quick Start guide to assign an IP.

For example, port 1 on the IB card in PCIe slot 11 in storage controller B will be labeled B11p1.

On storage controller B, the IB datalink must use IB partition key ffff as follows:

```
sbm-7440b:> configuration net datalinks
sbm-7440b:configuration net datalinks> partition
sbm-7440b:configuration net datalinks partition (uncommitted)> set
label=B11p1
label = B11p1 (uncommitted)
sbm-7440b:configuration net datalinks partition (uncommitted)> set
links=ibp0
```

```
links = ibp0 (uncommitted)
sbm-7440b:configuration net datalinks partition (uncommitted)> set pkey=ffff
pkey = ffff (uncommitted)
sbm-7440b:configuration net datalinks partition (uncommitted)> commit
sbm-7440b:configuration net datalinks>
```

On storage controller C, the IB datalink must use IB partition key fffe as follows:

```
sbm-7440c:> configuration net datalinks
sbm-7440c:configuration net datalinks> partition
sbm-7440c:configuration net datalinks partition (uncommitted)> set
label=C11p1
label = C11p1 (uncommitted)
sbm-7440c:configuration net datalinks partition (uncommitted)> set
links=ibp0
links = ibp0 (uncommitted)
sbm-7440c:configuration net datalinks partition (uncommitted)> set pkey=ffffe
pkey = fffe (uncommitted)
sbm-7440c:configuration net datalinks partition (uncommitted)> commit
sbm-7440c:configuration net datalinks>
```

The same operations should be repeated on both storage controllers for ports ibp1 to ibp7.

### 3. Create IP addresses on both Oracle ZFS Storage controllers

One IP address must be created for each IB datalink. The IP address depends on the PCIe slot for the IB cards and can be found in the "ZFS Storage Controller X IP addresses" tables.

For example, the IP address for PCIe 11 port 1 on controller C will be 100.100.150.200/24, and is configured as follows:

```
sbm-7440c:> configuration net interfaces
sbm-7440c:configuration net interfaces> ip
sbm-7440c:configuration net interfaces ip (uncommitted)> set links=C11p1
links = C11p1 (uncommitted)
sbm-7440c:configuration net interfaces ip (uncommitted)> set
v4addrs=100.100.150.200/24
v4addrs = 100.100.150.200/24 (uncommitted)
sbm-7440c:configuration net interfaces ip (uncommitted)> commit
sbm-7440c:configuration net interfaces>
```

The same operation should be repeated on both storage controllers for all IB datalinks.

### 4. Create iSCSI targets on both Oracle ZFS Storage controllers

One iSCSI target must be created for each IB datalink. The iSCSI interface name is defined as "p<partition key>\_<IB port>". As a reminder, storage controller B uses partition key ffff and storage controller C uses partition key fffe. For example, the iSCSI interface for port ibp5 on storage controller C is called "pffe\_ibp5" and is created as follows:

```
sbm-7440c:> configuration san iscsi targets
sbm-7440c:configuration san iscsi targets> create
sbm-7440c:configuration san iscsi targets target-000 (uncommitted)> set
interfaces=pffe_ibp5
interfaces = pffe_ibp5 (uncommitted)
sbm-7440c:configuration san iscsi targets target-000 (uncommitted)> set
alias=pffe_ibp5
```

```
alias = pfffe_ibp5(uncommitted)
sbm-7440c:configuration san iscsi targets target-000 (uncommitted)> commit
```

For each target created, record its ISCSI Qualified Name (IQN):

```
sbm-7440c:configuration san iscsi targets> select target-000 get iqn
iqn = iqn.1986-03.com.sun:02:2a23e0cc-22f9-48b4-a02d-ac20a65d7636
```

The same operation should be repeated for all IB datalinks.

## 5. Create IB datalinks on all clients

All clients have 2 IB cards installed, and each IB cards has 2 ports. Identify the link names and the port numbers (*LINK and PORT columns*) as follows.

Via a command tool, execute the command below on each client to produce the client configuration table.

```
# dladm show-ib
LINK          HCAGUID          PORTGUID          PORT STATE GWNAME GWPORT  PKEYS
net9          10E00001337F40  10E00001337F41  1   up  --  --      FFFE,FFFF
net10         10E00001337F40  10E00001337F42  2   up  --  --      FFFE,FFFF
net4          10E00001337D00  10E00001337D01  1   up  --  --      FFFE,FFFF
net5          10E00001337D00  10E00001337D02  2   up  --  --      FFFE,FFFF
```

Look up the partition key for each datalink in the "Client configuration" table. The partition keys have been chosen so that each IB card will talk to both Oracle ZFS Storage controllers, thus making the client resilient to a single IB card failure.

For each link, create an IB datalink with the appropriate partition key with the following commands:

```
#dladm create-part -l net4 -P ffff pffff_net4
#dladm create-part -l net5 -P fffe pfffe_net5
#dladm create-part -l net9 -P ffff pffff_net9
#dladm create-part -l net10 -P fffe pfffe_net10
```

The same operations should be repeated on all clients.

## 6. Create IP addresses on all clients

For each IB datalink created above, create an IP interface using the following commands:

```
# ipadm create-ip pffff_net4
# ipadm create-ip pfffe_net5
# ipadm create-ip pffff_net9
# ipadm create-ip pfffe_net10
```

The IP subnets for each client can be found in the (see above for client configuration table) "Client configuration" table. The host part of the IP address must be unique for each client, so clients A ... H are assigned 1 ... 8.

The IP addresses for client A are configured as follows:

```
# ipadm create-addr -T static -a local=100.100.160.1/24 pffff_net4
pffff_net4/v4
# ipadm create-addr -T static -a local=100.100.120.1/24 pfffe_net5
pfffe_net5/v4
# ipadm create-addr -T static -a local=100.100.140.1/24 pffff_net9
pffff_net9/v4
```

```
# ipadm create-addr -T static -a local=100.100.100.1/24 pfffe_net10
pfffe_net10/v4
```

The same operations should be repeated on all clients.

## 7. Configure iSCSI on all clients

Disable dynamic discovery of iSCSI targets (sendtargets & iSNS) and enable static configuration instead as follows:

```
# iscsiadm modify discovery -s enable
# iscsiadm modify discovery -t disable
# iscsiadm modify discovery -i disable
```

For each client port, look up the iSCSI target IP address in the "Client configuration" table. Find the IQN for this IP address as indicated in step (3). Both the IQN and the target IP address must be specified as shown below.

The iSCSI static configuration for client A is set up as follows:

```
# iscsiadm add static-config iqn.1986-03.com.sun:02:2a23e0cc-22f9-48b4-a02d-
ac20a65d7636,100.100.160.100
# iscsiadm add static-config iqn.1986-03.com.sun:02:c9b53dfd-5ed8-4a15-81c6-
a5b64c34502d,100.100.120.200
# iscsiadm add static-config iqn.1986-03.com.sun:02:9b99e4af-8631-43a9-9ccc-
c2851806e1d8,100.100.140.100
# iscsiadm add static-config iqn.1986-03.com.sun:02:2c8fa5bf-6dc4-c1fc-8af4-
ccd120b19660,100.100.100.200
```

The same operations should be repeated on all clients.

## Configure the Tested Storage Configuration (TSC)

The Oracle ZFS Storage ZS4-4 Appliance includes two controllers, referenced below as **A** and **B**. The TSC will be configured using the scripts described below, which are performed on the Master Host System via the "**root**" user.

### Build the ZS4-4 Cluster

The script, [Build-x4-4-Cluster.sh](#), will invoke scripts to:

- Build the RAID Mirror Pools
- Create 192 volumes on each controller, 96 per pool
- Format and align LUNS
- Create all disk listing and parameter files

### Build RAID Pools

The script, [Build 24T 4P.sh](#) will create 2 RAID Mirror Pools per controller. Each of the pools is 72+72 with 4 spares/

## Create Volumes

The script, [Build-Vols-24T-Cluster.sh](#), will create 192 volumes on each controller. All 384 volumes are accessible by both controllers.

## Format and Align LUNs

The script, [Label-64bit-Multi-Host-spc2e.sh](#), uses the manually created [ldq-Cluster.txt](#) and [lfp-Cluster.txt](#) files to create SPC-2 parameter files and will create a volume listing from the two controllers in order to format and align the LUNs. In addition, this script is used to create various documentation listings and configuration files used in the benchmark execution.

Text files created by [Label-64bit-Multi-host-spc2e.sh](#):

- **Cluster\_HW\_List.txt**: Physical hardware list from both controllers of the ZS4-4 cluster
- **Cluster\_Lun\_List.txt**: Logical Volume listing from the ZS4-4 cluster
- **disklist.txt**: Logical volume listing from the master client
- **prtvtoc.txt**: Logical volume prtvtoc listing from the master client
- **pre.txt**: Vdbench parameter file for pre-filling logical volumes
- **spc2-vod.txt**: SPC-2 VOD parameter file
- **spc2-ldq.txt**: SPC-2 LDQ parameter file
- **spc2-lfp.txt**: SPC-2 LFP parameter file
- **spc2-persist1.txt**: SPC-2 Persist 1 parameter file
- **spc2-persist2.txt**: SPC-2 Persist 2 parameter file

## Referenced Scripts and Files

### Build-x4-4-Cluster.sh

```
#!/bin/bash
#
date
#sleep 3600
./Build_24T_4P.sh
./Build-Vols-24T-Cluster.sh
date
```

### Build\_24T\_4P.sh

```
#!/bin/bash
#
# Build 4 pools on a 24-tray Cluster for SPC2
#
B_HEAD=sbm-7440b
C_HEAD=sbm-7440c

echo "Tesing connectivity to $B_HEAD..."
echo "Tesing connectivity to $C_HEAD..."
#
# Check that host is up
ping $B_HEAD > /dev/null
if [ $? = 1 ]
then
```



```
        echo "Unable to contact appliance. Please check hostname and network
connectivity."
    exit
fi
# Check that host is up
ping $C_HEAD > /dev/null
if [ $? = 1 ]
    then
        echo "Unable to contact appliance. Please check hostname and network
connectivity."
    exit
fi
##
echo "Removing old pools..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('unconfig B-pool-1');
    run('confirm done');
    run('done');
EOF

echo "Removing old pools..."
ssh -T root@$C_HEAD <<EOF
script
    run('configuration storage');
    run('unconfig C-pool-1');
    run('confirm done');
    run('done');
EOF

echo "Removing old pools..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('unconfig B-pool-2');
    run('confirm done');
    run('done');
EOF

echo "Removing old pools..."
ssh -T root@$C_HEAD <<EOF
script
    run('configuration storage');
    run('unconfig C-pool-2');
    run('confirm done');
    run('done');
EOF
#exit
echo "Building B-pool-1..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('config B-pool-1');
    run('set 1-data=6');
    run('set 2-data=6');
    run('set 3-data=6');
    run('set 4-data=6');
    run('set 5-data=6');
    run('set 6-data=6');
    run('set 7-data=6');
    run('set 8-data=6');
    run('set 9-data=6');
```

```
run('set 10-data=6');
run('set 11-data=6');
run('set 12-data=6');
run('set 13-data=6');
run('set 14-data=6');
run('set 15-data=6');
run('set 16-data=6');
run('set 17-data=6');
run('set 18-data=6');
run('set 19-data=6');
run('set 20-data=6');
run('set 21-data=6');
run('set 22-data=6');
run('set 23-data=6');
run('set 24-data=6');
run('done');
run('set profile=mirror_nspf');
run('done');
run('done');
```

```
EOF
sleep 15
```

```
echo "Building C-pool-1..."
ssh -T root@$C_HEAD <<EOF
script
run('configuration storage');
run('config C-pool-1');
run('set 1-data=6');
run('set 2-data=6');
run('set 3-data=6');
run('set 4-data=6');
run('set 5-data=6');
run('set 6-data=6');
run('set 7-data=6');
run('set 8-data=6');
run('set 9-data=6');
run('set 10-data=6');
run('set 11-data=6');
run('set 12-data=6');
run('set 13-data=6');
run('set 14-data=6');
run('set 15-data=6');
run('set 16-data=6');
run('set 17-data=6');
run('set 18-data=6');
run('set 19-data=6');
run('set 20-data=6');
run('set 21-data=6');
run('set 22-data=6');
run('set 23-data=6');
run('set 24-data=6');
run('done');
run('set profile=mirror_nspf');
run('done');
run('done');
```

```
EOF
echo "Building B-pool-2..."
ssh -T root@$B_HEAD <<EOF
script
run('configuration storage');
run('config B-pool-2');
run('set 1-data=6');
run('set 2-data=6');
```

```
run('set 3-data=6');
run('set 4-data=6');
run('set 5-data=6');
run('set 6-data=6');
run('set 7-data=6');
run('set 8-data=6');
run('set 9-data=6');
run('set 10-data=6');
run('set 11-data=6');
run('set 12-data=6');
run('set 13-data=6');
run('set 14-data=6');
run('set 15-data=6');
run('set 16-data=6');
run('set 17-data=6');
run('set 18-data=6');
run('set 19-data=6');
run('set 20-data=6');
run('set 21-data=6');
run('set 22-data=6');
run('set 23-data=6');
run('set 24-data=6');
run('done');
run('set profile=mirror_nspf');
run('confirm done');
run('done');
EOF
sleep 15
echo "Building C-pool-2..."
ssh -T root@$C_HEAD <<EOF
script
run('configuration storage');
run('config C-pool-2');
run('set 1-data=6');
run('set 2-data=6');
run('set 3-data=6');
run('set 4-data=6');
run('set 5-data=6');
run('set 6-data=6');
run('set 7-data=6');
run('set 8-data=6');
run('set 9-data=6');
run('set 10-data=6');
run('set 11-data=6');
run('set 12-data=6');
run('set 13-data=6');
run('set 14-data=6');
run('set 15-data=6');
run('set 16-data=6');
run('set 17-data=6');
run('set 18-data=6');
run('set 19-data=6');
run('set 20-data=6');
run('set 21-data=6');
run('set 22-data=6');
run('set 23-data=6');
run('set 24-data=6');
run('done');
run('set profile=mirror_nspf');
run('confirm done');
run('done');
EOF
```

```
exit
```

### Build-Vols-24T-Cluster.sh

```
#!/bin/bash
#
#
AR_HOSTNAME_B=sbm-7440b
AR_HOSTNAME_C=sbm-7440c

LUNS=97
SIZE=118g
COUNT=1
while (test "$COUNT" -lt "$LUNS")
do
ssh -T $AR_HOSTNAME_B <<EOF
script
  run('shares');
  run('set pool=B-pool-1');
  run('select default lun spc2-$COUNT');
  run('set volsize=$SIZE');
  run('set volblocksize=1m');
  run('set targetgroup=default');
  run('set initiatorgroup=default');
  run('commit');
  run('done');
EOF
COUNT=`expr $COUNT + 1`
done

ssh -T $AR_HOSTNAME_B <<EOF
script
  run('shares');
  run('set pool=B-pool-1');
  run('select default');
  run('set logbias=throughput');
  run('commit');
  run('done');
EOF

COUNT=1
while (test "$COUNT" -lt "$LUNS")
do
ssh -T $AR_HOSTNAME_C <<EOF
script
  run('shares');
  run('set pool=C-pool-1');
  run('select default lun spc2-$COUNT');
  run('set volsize=$SIZE');
  run('set volblocksize=1m');
  run('set targetgroup=default');
  run('set initiatorgroup=default');
  run('commit');
  run('done');
EOF
COUNT=`expr $COUNT + 1`
done

ssh -T $AR_HOSTNAME_C <<EOF
script
  run('shares');
  run('set pool=C-pool-1');
```

```
run('select default');
run('set logbias=throughput');
run('commit');
run('done');
EOF

COUNT=1
while (test "$COUNT" -lt "$LUNS")
do
ssh -T $AR_HOSTNAME_B <<EOF
script
run('shares');
run('set pool=B-pool-2');
run('select default lun spc2-$COUNT');
run('set volsize=$SIZE');
run('set volblocksize=1m');
run('set targetgroup=default');
run('set initiatorgroup=default');
run('commit');
run('done');
EOF
COUNT=`expr $COUNT + 1`
done

ssh -T $AR_HOSTNAME_B <<EOF
script
run('shares');
run('set pool=B-pool-2');
run('select default');
run('set logbias=throughput');
run('commit');
run('done');
EOF

COUNT=1
while (test "$COUNT" -lt "$LUNS")
do
ssh -T $AR_HOSTNAME_C <<EOF
script
run('shares');
run('set pool=C-pool-2');
run('select default lun spc2-$COUNT');
run('set volsize=$SIZE');
run('set volblocksize=1m');
run('set targetgroup=default');
run('set initiatorgroup=default');
run('commit');
run('done');
EOF
COUNT=`expr $COUNT + 1`
done

ssh -T $AR_HOSTNAME_C <<EOF
script
run('shares');
run('set pool=C-pool-2');
run('select default');
run('set logbias=throughput');
run('commit');
run('done');
EOF
exit
```

## Label-64bit-Multi-Host-spc2e.sh

```
#!/bin/ksh
#
set -x

AR_HOSTNAME_B=sbm-7440b
AR_HOSTNAME_C=sbm-7440c

export ZPOOL="yes"

# Set SPC2 Clients
#Clients=" sbm-x42b sbm-x42g sbm-x42h"
Clients="sbm-x42c sbm-x42b sbm-x42d sbm-x42e sbm-x42f sbm-x42g sbm-x42h"

# Clients with default MaxStreams
FullClients="sbm-x42c sbm-x42b sbm-x42d sbm-x42e sbm-x42f sbm-x42g sbm-x42h"
#FullClients="sbm-x42b sbm-x42g sbm-x42h"

# Set number of JVMs
JVMS=2 # This is per slave
VODJVMS=4 # This is per slave

# SET Controller ID
Cid=c0t600144

# Set lun size
# 21 vols per tray = audit run
#export Fsize=184532958e
#export size=94479826432
# 16 vols per tray = sweet spot
export Fsize=247447518e
export size=126692081152
#export size=10g
# 8 vols per tray
#export Fsize=494911454e
#export size=253393616384

# Set VOD streams
VOD=46000

# Global Stream count
STREAMS=1024

# Do not edit below this line

PARMS=/spc/SPC2_V1.2/spc2-x86/SPC2-Parm-Stream-Files

# Streams Set for LDQ
LDQ=$PARMS/ldq-Cluster.txt
cp $LDQ .

# Streams Set for LFP
LFP=$PARMS/lfp-Cluster.txt
cp $LFP .

# Set Output directory
mkdir /spc/config/spc2/sbm-7440b
export output=/spc/config/spc2/sbm-7440b/

export NOINUSE_CHECK=1
rm disk* p*.txt spc*.txt
clear
```

```
#
banner "      SPC2 "
banner "    Config "
sleep 2
echo " "
echo "   Please wait "
echo " "

echo " "
echo "Running SPC2 config script on `hostname` "
sleep 2
echo " "
echo "Master SPC-2 Client is `hostname` "
sleep 2
echo " "
echo "Slave SPC-2 Client are:  "
echo "$Clients"
sleep 2
echo " "
echo "Configuring all devices on controller $Cid "
sleep 2
echo " "
echo "Volume size has been set to $size "
sleep 2
echo " "
echo "Output directory is $output "
sleep 2
echo " "
echo "Ldq is set for $LDQ "
sleep 2
echo " "
echo "LFP has been set to $LFP "
sleep 2
echo " "
echo "VOD is set to $VOD streams "
sleep 2
echo " "
clear
echo "Please wait about fifteen minutes "
sleep 2
echo " "
echo " Configuring new disks with zpool"
echo " "
echo " Configuring `ls /dev/rdisk/$Cid*d0s2 | wc -l` disks"
sleep 1
echo " "
ls /dev/rdisk/$Cid*d0s2 > disks
echo " "
echo " Starting to Label all new disks"
echo " "
# Now we move on to create label on all disks
cat disks | sed 's/d0s2/d0/g' > disk
#
C_disks=disk
#####
if [[ $ZPOOL = "yes" ]]; then
echo " Starting to align all disks"

# Probe server and remove all old device links
echo " "
#devfsadm -C ; cfgadm -la ; devfsadm

#for f in `cat $C_disks`
```

```
#do
zpool create z `cat $C_disks`
sleep 3
zpool destroy -f z
sleep 3
#done
sleep 2
#
C_disks=disks
#####
for f in `cat $C_disks`
do
format -e $f << EOFF
label
1
y
p
p
0
usr
wm
2048
$Fsize
label
1
y
quit
quit
EOFF
done
clear
echo " "

echo " "
echo " All `ls /dev/rdisk/$Cid*d0s2 | wc -l ` disks have been configured"
echo " "
sleep 3
fi
#
echo " Now we start building all parameter files"
sleep 1
echo " "
echo " VOD is being created"
echo " "
sleep 2
# Use slice 0 instead of slice 2
cat disks | sed 's/s2/s0/g' > disk1
#
# Vod is first
touch v.txt
echo " " >> v.txt
echo " # Video on Demand Test (VOD) " >> v.txt
echo " " >> v.txt
echo "host=localhost,jvms=$VODJVMS,java=(java,\"-d64 -Xmx1536m -Xms600m\") " >>
v.txt
for x in $FullClients
do
echo "host=($x),jvms=$VODJVMS,java=(java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 "
>> v.txt
done
for x in $MaxClients
do
```



```

echo "host=( $x ),maxstreams=$MaxStreamsVOD,jvms=$VODJVMS,java=( java,\ "-d64 -Xmx1536m
-Xms600m\" ),shell=spc2 " >> v.txt
done
echo "sd=default,size=$size " >> v.txt
echo " " >> v.txt
for Slave in localhost
do
counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>v.txt
count=`expr $count + 1`
done
done
done
for Slave in $Clients
do
counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>v.txt
count=`expr $count + 1`
done
done
done
done

echo " " >>v.txt
echo "#maxlatestart=60" >>v.txt
echo "maxlatestart=0" >>v.txt
echo "#videosegmentduration=900" >>v.txt
echo "videosegmentduration=1200" >>v.txt
echo "#maxlatevod=60" >>v.txt
echo "maxlatevod=0" >>v.txt
echo "#reportinginterval=15" >>v.txt
echo "reportinginterval=5" >>v.txt
echo " " >>v.txt
echo
"#rd=default,rampup=900,periods=600,measurement=900,runout=45,rampdown=15,buffers=8"
>>v.txt
echo
"rd=default,rampup=1200,periods=600,measurement=7200,runout=45,rampdown=15,buffers=8"
" >>v.txt
echo
"#rd=default,rampup=1200,periods=600,measurement=7200,runout=45,rampdown=15,buffers=
8" >>v.txt
echo "rd=TR1-"$VOD"s_SPC-2-VOD,streams=$VOD" >>v.txt

echo " " >>v.txt
echo " "
echo "# To start slaves, run: " >>v.txt
for x in $Clients
do
echo "# nohup java -d64 -cp . RemoteStart > nohup.$x.out 2>&1 & " >>v.txt
done
echo "#Or nohup java -d64 -cp . RemoteStart > nohup.`hostname`.out 2>&1 & "
>>v.txt
echo "# On each Client " >>v.txt

```

```
echo " " >>v.txt

# pre condition is next
touch pc.txt
echo " " >> pc.txt
echo " # Pre-Conditioning by sequential 1m writes " >> pc.txt
echo " " >> pc.txt
echo " " >> pc.txt
echo "compratio=1 " >> pc.txt

echo "sd=default,th=2" >> pc.txt

counter=`ls /dev/rdsk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
  for x in `cat disk1`
  do
    echo "sd=sd$count,lun=$x " >>pc.txt
    count=`expr $count + 1`
  done
echo " " >>pc.txt
done

echo " " >>pc.txt
echo "wd=wd1,sd=sd*,seekpct=eof,rdpct=0,xfersize=1m" >>pc.txt
echo "rd=rd1,wd=wd*,elapsed=72h,interval=60,iorate=9500" >>pc.txt
echo "#rd=rd1,wd=wd*,elapsed=72h,interval=60,iorate=max" >>pc.txt
#
echo "#wd=fmt,sd=sd*,seekpct=eof,rdpct=0,xfersize=1m" >>pc.txt
echo "#rd=default,wd=fmt,elapsed=72h,interval=60,iorate=max" >>pc.txt
echo "#rd=rd1,sd=single " >>pc.txt

echo " " >>pc.txt

# Now we start building the persist files
# Persist 1 is 3rd
echo " Persist 1 file is being created"
echo " "
sleep 1
touch p1.txt
echo " " >> p1.txt
echo " # Persist 1 " >> p1.txt
echo " " >> p1.txt
echo "host=localhost,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\") " >> p1.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 " >>
p1.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -
Xms600m\"),shell=spc2 " >> p1.txt
done
echo "sd=default,size=$size " >> p1.txt
echo " " >> p1.txt

for Slave in localhost $Clients
do
counter=`ls /dev/rdsk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
```

```

do
  for x in `cat disk1`
  do
    echo "sd=sd$count,host=$Slave,lun=$x " >>p1.txt
    count=`expr $count + 1`
  done
done
echo " " >>p1.txt
done
#
echo " " >>p1.txt
echo "maxlatestart=1" >>p1.txt
echo "reportinginterval=5" >>p1.txt
echo "segmentlength=512m " >>p1.txt
echo " " >>p1.txt
echo
"rd=default,rampup=180,periods=90,measurement=300,runout=0,rampdown=0,buffers=1"
>>p1.txt
echo "rd=default,rdpct=0,xfersize=1024k" >>p1.txt
echo "rd=TR1-"$STREAMS"s_SPC-2-persist-w,streams=$STREAMS" >>p1.txt
#
# Pre-Idle 4th
echo " Pre-Idle  file is being created"
echo " "
sleep 1
touch pre.txt
echo " " >> pre.txt
echo " # Pre_idle " >> pre.txt
echo " " >> pre.txt
echo "host=localhost,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\") " >> pre.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 " >>
pre.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -
Xms600m\"),shell=spc2 " >> pre.txt
done
echo "sd=default,size=$size " >> pre.txt
echo " " >> pre.txt

for Slave in localhost $Clients
do
counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
  for x in `cat disk1`
  do
    echo "sd=sd$count,host=$Slave,lun=$x " >>pre.txt
    count=`expr $count + 1`
  done
done
echo " " >>pre.txt
done
#
echo " " >>pre.txt
echo "maxlatestart=0" >>pre.txt
echo "reportinginterval=5" >>pre.txt
echo "segmentlength=512m " >>pre.txt
echo " " >>pre.txt

```

```

echo
"rd=default,rampup=180,measurement=600,runout=45,rampdown=15,buffers=1,periods=90"
>>pre.txt
echo "rd=default,rdpct=50,xfersize=1024k" >>pre.txt
echo "rd=TR11-s2048_SPC-2-FP,streams=2048" >>pre.txt
#
# Post-Idle 5th
echo " Post-Idle file is being created"
echo " "
sleep 1
touch post.txt
echo " " >> post.txt
echo " # Post_idle " >> post.txt
echo " " >> post.txt
echo "host=localhost,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\") " >>
post.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 " >>
post.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -
Xms600m\"),shell=spc2 " >> post.txt
done
echo "sd=default,size=$size " >> post.txt
echo " " >> post.txt

for Slave in localhost $Clients
do
counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>post.txt
count=`expr $count + 1`
done
done
echo " " >>post.txt
done
#
echo " " >>post.txt
echo "maxlateststart=0" >>post.txt
echo "reportinginterval=5" >>post.txt
echo "segmentlength=512m " >>post.txt
echo " " >>post.txt
echo
"rd=default,rampup=60,measurement=300,runout=45,rampdown=15,buffers=1,periods=90"
>>post.txt
echo
"#rd=default,rampup=180,measurement=600,runout=45,rampdown=15,buffers=1,periods=90"
>>post.txt
echo "rd=default,rdpct=50,xfersize=1024k" >>post.txt
echo "rd=TR13-s512_SPC-2-FP,streams=512" >>post.txt
#
# Now we start building the persist 2 file
#
# Persist 2 is next
echo " Persist 2 file is being created"
echo " "

```

```
sleep 3
touch p2.txt
echo " " >> p2.txt
echo " # Persistence Test Run 2 " >> p2.txt
echo " " >> p2.txt
echo "host=localhost,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\") " >> p2.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 " >>
p2.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -
Xms600m\"),shell=spc2 " >> p2.txt
done
echo "sd=default,size=$size " >> p2.txt
echo " " >> p2.txt

for Slave in localhost $Clients
do
counter=`ls /dev/rdsk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>p2.txt
count=`expr $count + 1`
done
done
echo " " >>p2.txt
done
#
echo " " >>p2.txt
echo "maxlateststart=1" >>p2.txt
echo "reportinginterval=5" >>p2.txt
echo "segmentlength=512m " >>p2.txt
echo "maxpersistenceerrors=10" >>p2.txt
echo " " >>p2.txt
echo "*corruptstreams=3" >>p2.txt
echo "rd=default,buffers=1,rdpct=100,xfersize=1024k" >>p2.txt
echo "rd=TR1-$$STREAMS"s_SPC-2-persist-r" >>p2.txt
# Now we start building the LDQ file
#
#
#
# LDQ Parameter file
echo " LDQ file is being created"
echo " "
sleep 3
touch ldq.txt
echo " " >> ldq.txt
echo " # * Large Database Query Test (LDQ) " >> ldq.txt
echo " " >> ldq.txt
echo "host=localhost,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\") " >> ldq.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 " >>
ldq.txt
done
for x in $MaxClients
```

```
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=(java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 " >> ldq.txt
done
echo "sd=default,size=$size " >> ldq.txt
echo " " >> ldq.txt

for Slave in localhost
do

counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>ldq.txt
count=`expr $count + 1`
done
done
echo " " >>ldq.txt
done

for Slave in $Clients
do

counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>ldq.txt
count=`expr $count + 1`
done
done
echo " " >>ldq.txt
done
echo " " >>ldq.txt
#
echo " " >>ldq.txt
echo "maxlateststart=0" >>ldq.txt
echo "reportinginterval=5" >>ldq.txt
echo "segmentlength=512m " >>ldq.txt
echo " " >>ldq.txt
echo
"#rd=default,rdpct=99,rampup=60,periods=30,measurement=30,runout=25,rampdown=15"
>>ldq.txt
echo
"rd=default,rdpct=99,rampup=180,periods=90,measurement=180,runout=45,rampdown=15"
>>ldq.txt
echo "#
rd=default,rdpct=99,rampup=180,periods=90,measurement=600,runout=45,rampdown=15"
>>ldq.txt
cat $LDQ >>ldq.txt
echo " " >>ldq.txt
# LFP Parameter file
#
# LFP is next
echo " LFP file is being created"
echo " "
sleep 3
touch lfp.txt
```

```
echo " " >> lfp.txt
echo " # * Large File Processing Test (LFP) " >> lfp.txt
echo " " >> lfp.txt
echo "host=localhost,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\") " >> lfp.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -Xms600m\"),shell=spc2 " >>
lfp.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLFP,jvms=$JVMS,java=( java,\"-d64 -Xmx1536m -
Xms600m\"),shell=spc2 " >> lfp.txt
done
echo "sd=default,size=$size " >> lfp.txt
echo " " >> lfp.txt

for Slave in localhost
do
counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>lfp.txt
count=`expr $count + 1`
done
done
echo " " >>lfp.txt
done
echo " "

for Slave in $Clients
do
counter=`ls /dev/rdisk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
#for x in `cat $Slave`
do
echo "sd=sd$count,host=$Slave,lun=$x " >>lfp.txt
count=`expr $count + 1`
done
done
echo " " >>lfp.txt
done
echo " "
#
echo " " >>lfp.txt
echo "maxlatestart=0" >>lfp.txt
echo "reportinginterval=5" >>lfp.txt
echo "segmentlength=512m " >>lfp.txt
echo " " >>lfp.txt
echo
"#rd=default,rampup=45,periods=30,measurement=30,runout=15,rampdown=15,buffers=1"
>>lfp.txt
echo
"#rd=default,rampup=180,periods=90,measurement=180,runout=45,rampdown=15,buffers=1"
>>lfp.txt
```

```
echo "#
rd=default,rampup=180,periods=90,measurement=600,runout=45,rampdown=15,buffers=1"
>>lfp.txt
cat $LFP >>lfp.txt
#
mv v.txt spc2-vod.txt
mv pl.txt spc2-persist1.txt
mv pre.txt spc2-pre.txt
mv post.txt spc2-post.txt
mv p2.txt spc2-persist2.txt
mv ldq.txt spc2-ldq.txt
mv lfp.txt spc2-lfp.txt
mv pc.txt pre.txt
#
# Create prtvtoc.txt file
cat disk1 | sed 's/s0/s2/g' > disk2
mv disk2 disk1
echo " Prtvtoc file is being created"
echo " "
sleep 3
touch prtvtoc.txt
for x in `cat disk1`
do
prtvtoc $x >> prtvtoc.txt
done
mv disk1 disklist.txt
rm disk disks
# Get a hardware and volume listing from Cluster
echo " Create Hardware and Volume list"
# This section replaces Get_Hardware_list.sh

#
AR_HOSTNAME_C=sbm-7440c
AR_HOSTNAME_B=sbm-7440b

echo "Hardware listing from Controller_${AR_HOSTNAME_C} " > C-Controller_hw_list.txt
echo "Hardware listing from Controller_${AR_HOSTNAME_B} " > B-Controller_hw_list.txt

ssh -T $AR_HOSTNAME_C <<EOF >> C-Controller_hw_list.txt
script
run('maintenance hardware');
lines = run('show');

for (i = 0; i < lines.length; i++) {
printf("%s", lines[i])
}

run('done');
EOF
echo "##### " >> C-Controller_hw_list.txt
echo "##### " >> C-Controller_hw_list.txt
echo " " >> C-Controller_hw_list.txt

ssh -T $AR_HOSTNAME_B <<EOF >> B-Controller_hw_list.txt
script
run('maintenance hardware');
lines = run('show');

for (i = 0; i < lines.length; i++) {
printf("%s", lines[i])
}

run('done');
```



```
EOF
echo " " >> B-Controller_hw_list.txt

cat C-Controller_hw_list.txt B-Controller_hw_list.txt > Cluster_HW_List.txt
rm *_hw_list.txt

echo "Volume listing from Controller_${AR_HOSTNAME}_C " > Lun_List_Controller_C.txt
echo "Volume listing from Controller_${AR_HOSTNAME}_B " > Lun_List_Controller_B.txt

for x in C-pool-1 C-pool-2
do
echo "Volume listing from $x " >> Lun_List_Controller_C.txt
ssh -T ${AR_HOSTNAME}_C <<EOF >> Lun_List_Controller_C.txt
script
    run('shares');
run('set pool=$x');
    run('select default');
    print(run('list lun'))
    run('done');
EOF
echo " " >> Lun_List_Controller_C.txt
done

for x in B-pool-1 B-pool-2
do
echo "Volume listing from $x " >> Lun_List_Controller_B.txt
ssh -T ${AR_HOSTNAME}_B <<EOF >> Lun_List_Controller_B.txt
script
    run('shares');
    run('set pool=$x');
    run('select default');
    print(run('list lun'))
    run('done');
EOF
echo " " >> Lun_List_Controller_B.txt
done

#
cat Lun_List*.txt > Cluster_Lun_List.txt
rm Lun_List*.txt
#

#

echo " "
# Copy all files to the config directory
echo " "
echo " All files are being copied to $output"
echo " "
sleep 3
cp * $output
echo " "
echo " "
echo " "
banner " Done Deal"
echo " "
```

### ldq-Cluster.txt

```
* LDQ, 1024 KiB Test Phase
* Test Run Sequence 1
rd=default,xfersize=1024k,buffers=4
```

```
rd=TR1-s256_SPC-2-DQ,streams=256
rd=TR2-s128_SPC-2-DQ,streams=128
rd=TR3-s64_SPC-2-DQ,streams=64
rd=TR4-s32_SPC-2-DQ,streams=32
rd=TR5-s1_SPC-2-DQ,streams=1

* Test Run Sequence 2
rd=default,buffers=1
rd=TR6-s256_SPC-2-DQ,streams=256
rd=TR7-s128_SPC-2-DQ,streams=128
rd=TR8-s64_SPC-2-DQ,streams=64
rd=TR9-s32_SPC-2-DQ,streams=32
rd=TR10-s1_SPC-2-DQ,streams=1

* LDQ, 64 KiB Test Phase

* Test Run Sequence 3
rd=default,xfersize=64k,buffers=4
rd=TR11-s512_SPC-2-DQ,streams=512
rd=TR12-s256_SPC-2-DQ,streams=256
rd=TR13-s128_SPC-2-DQ,streams=128
rd=TR14-s64_SPC-2-DQ,streams=64
rd=TR15-s1_SPC-2-DQ,streams=1

* Test Run Sequence 4
rd=default,buffers=1
rd=TR16-s1024_SPC-2-DQ,streams=1024
rd=TR17-s512_SPC-2-DQ,streams=512
rd=TR18-s256_SPC-2-DQ,streams=256
rd=TR19-s128_SPC-2-DQ,streams=128
rd=TR20-s1_SPC-2-DQ,streams=1
```

## lfp- Cluster.txt

```
* LFP, "write" Test Phase

* Test Run Sequence 1
rd=default,rdpct=0,xfersize=1024k
rd=TR1-s512_SPC-2-FP,streams=512
rd=TR2-s256_SPC-2-FP,streams=256
rd=TR3-s128_SPC-2-FP,streams=128
rd=TR4-s64_SPC-2-FP,streams=64
rd=TR5-s1_SPC-2-FP,streams=1

* Test Run Sequence 2
rd=default,xfersize=256k
rd=TR6-s1024_SPC-2-FP,streams=1024
rd=TR7-s512_SPC-2-FP,streams=512
rd=TR8-s256_SPC-2-FP,streams=256
rd=TR9-s128_SPC-2-FP,streams=128
rd=TR10-s1_SPC-2-FP,streams=1

* LFP, "read-write" Test Phase

* Test Run Sequence 3
rd=default,rdpct=50,xfersize=1024k
rd=TR11-s2048_SPC-2-FP,streams=2048
rd=TR12-s1024_SPC-2-FP,streams=1024
rd=TR13-s512_SPC-2-FP,streams=512
rd=TR14-s256_SPC-2-FP,streams=256
rd=TR15-s1_SPC-2-FP,streams=1
```

```
* Test Run Sequence 4
rd=default,xfersize=256k
rd=TR16-s1024_SPC-2-FP,streams=1024
rd=TR17-s512_SPC-2-FP,streams=512
rd=TR18-s256_SPC-2-FP,streams=256
rd=TR19-s128_SPC-2-FP,streams=128
rd=TR20-s1_SPC-2-FP,streams=1

* LFP, "read" Test Phase

* Test Run Sequence 5
rd=default,rdpct=100,xfersize=1024k
rd=TR21-s256_SPC-2-FP,streams=256
rd=TR22-s128_SPC-2-FP,streams=128
rd=TR23-s64_SPC-2-FP,streams=64
rd=TR24-s32_SPC-2-FP,streams=32
rd=TR25-s1_SPC-2-FP,streams=1

* Test Run Sequence 6
rd=default,xfersize=256k
rd=TR26-s1025_SPC-2-FP,streams=1024
rd=TR27-s512_SPC-2-FP,streams=512
rd=TR28-s256_SPC-2-FP,streams=256
rd=TR29-s128_SPC-2-FP,streams=128
rd=TR30-s1_SPC-2-FP,streams=1
```

## APPENDIX D: SPC-2 WORKLOAD GENERATOR STORAGE COMMANDS AND PARAMETER FILES

### ASU Pre-Fill

# Pre-Conditioning by sequential 1m writes

```
compratio=1
sd=default,th=2
sd=sd1,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CA930001d0s0
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sd=sd245, lun=/dev/rdisk/c0t600144f0f8797f1f000054c5d26d0035d0s0  
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sd=sd302, lun=/dev/rdisk/c0t600144f0f8797f1f000054c5d398006ed0s0



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sd=sd365, lun=/dev/rdisk/c0t600144f0f8797f1f000054c5d41300add0s0

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sd=sd366,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41500AEd0s0
sd=sd367,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41700AFd0s0
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sd=sd370,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41D00B2d0s0
sd=sd371,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41F00B3d0s0
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sd=sd374,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42500B6d0s0
sd=sd375,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42700B7d0s0
sd=sd376,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42900B8d0s0
sd=sd377,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42B00B9d0s0
sd=sd378,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42D00BAd0s0
sd=sd379,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42F00BBd0s0
sd=sd380,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43100BCd0s0
sd=sd381,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43300BDd0s0
sd=sd382,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43500BED0s0
sd=sd383,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43600BFd0s0
sd=sd384,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43800C0d0s0
```

```
wd=wd1,sd=sd*,seekpct=eof,rdpct=0,xfersize=1m
rd=rd1,wd=wd*,elapsed=72h,interval=60,iorate=9500
#rd=rd1,wd=wd*,elapsed=72h,interval=60,iorate=max
#wd=fmt,sd=sd*,seekpct=eof,rdpct=0,xfersize=1m
#rd=default,wd=fmt,elapsed=72h,interval=60,iorate=max
#rd=rd1,sd=single
```

## Common Commands/Parameters – LFP, LDQ, VOD and Persistence

The following command/parameter lines appear in each of the command and parameter files for the Idle (Pre-Idle and Post-Idle Phases), Large File Processing (LFP), Large Database Query (LDQ), Video on Demand (VOD) and Persistence Tests. The command lines are only listed below to eliminate redundancy.

```
sd=default,size=126692081152
```

```
sd=sd1,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CA930001d0s0
sd=sd2,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CA9F0002d0s0
sd=sd3,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CAAE0003d0s0
sd=sd4,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CAC00004d0s0
sd=sd5,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CAD20005d0s0
sd=sd6,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CAE50006d0s0
sd=sd7,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CAF80007d0s0
sd=sd8,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CB0C0008d0s0
sd=sd9,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CB210009d0s0
sd=sd10,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CB32000Ad0s0
sd=sd11,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CB42000Bd0s0
sd=sd12,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CB54000Cd0s0
sd=sd13,host=localhost,lun=/dev/rdisk/c0t600144F0D8200EDA000054C5CB66000Dd0s0
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sd=sd271,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2A1004Fd0s0  
sd=sd272,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2A30050d0s0  
sd=sd273,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2A50051d0s0  
sd=sd274,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2A70052d0s0  
sd=sd275,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2A90053d0s0  
sd=sd276,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2AB0054d0s0  
sd=sd277,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2AD0055d0s0  
sd=sd278,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2AF0056d0s0  
sd=sd279,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2B10057d0s0  
sd=sd280,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2B30058d0s0  
sd=sd281,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2B50059d0s0  
sd=sd282,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2B7005Ad0s0  
sd=sd283,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2B9005Bd0s0  
sd=sd284,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2BB005Cd0s0  
sd=sd285,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2BD005Dd0s0  
sd=sd286,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2BF005Ed0s0  
sd=sd287,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2C1005Fd0s0  
sd=sd288,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D2C30060d0s0

sd=sd289,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D37F0061d0s0  
sd=sd290,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3810062d0s0  
sd=sd291,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3820063d0s0  
sd=sd292,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3840064d0s0  
sd=sd293,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3860065d0s0  
sd=sd294,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3880066d0s0  
sd=sd295,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D38A0067d0s0  
sd=sd296,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D38C0068d0s0  
sd=sd297,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D38E0069d0s0  
sd=sd298,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D390006Ad0s0  
sd=sd299,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D392006Bd0s0  
sd=sd300,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D394006Cd0s0  
sd=sd301,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D396006Dd0s0  
sd=sd302,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D398006Ed0s0  
sd=sd303,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D39A006Fd0s0  
sd=sd304,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D39C0070d0s0  
sd=sd305,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D39E0071d0s0  
sd=sd306,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3A00072d0s0  
sd=sd307,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3A20073d0s0  
sd=sd308,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3A40074d0s0  
sd=sd309,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3A60075d0s0  
sd=sd310,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3A80076d0s0  
sd=sd311,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3AA0077d0s0  
sd=sd312,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3AC0078d0s0  
sd=sd313,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3AD0079d0s0  
sd=sd314,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3AF007Ad0s0  
sd=sd315,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3B1007Bd0s0  
sd=sd316,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3B3007Cd0s0  
sd=sd317,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3B5007Dd0s0  
sd=sd318,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3B7007Ed0s0  
sd=sd319,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3B9007Fd0s0  
sd=sd320,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3BB0080d0s0  
sd=sd321,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3BD0081d0s0  
sd=sd322,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3C00082d0s0  
sd=sd323,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3C20083d0s0  
sd=sd324,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3C30084d0s0  
sd=sd325,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3C50085d0s0  
sd=sd326,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3C70086d0s0  
sd=sd327,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3C90087d0s0  
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sd=sd330,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3CF008Ad0s0  
sd=sd331,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3D1008Bd0s0  
sd=sd332,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3D3008Cd0s0  
sd=sd333,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3D5008Dd0s0  
sd=sd334,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3D7008Ed0s0  
sd=sd335,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3D9008Fd0s0  
sd=sd336,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3DB0090d0s0  
sd=sd337,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3DD0091d0s0  
sd=sd338,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3DF0092d0s0  
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sd=sd341,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3E50095d0s0  
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sd=sd351,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3F9009Fd0s0

sd=sd352,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3FA00A0d0s0  
sd=sd353,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3FC00A1d0s0  
sd=sd354,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D3FE00A2d0s0  
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sd=sd366,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41500AEd0s0  
sd=sd367,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41700AFd0s0  
sd=sd368,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41900B0d0s0  
sd=sd369,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41B00B1d0s0  
sd=sd370,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41D00B2d0s0  
sd=sd371,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D41F00B3d0s0  
sd=sd372,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42100B4d0s0  
sd=sd373,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42300B5d0s0  
sd=sd374,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42500B6d0s0  
sd=sd375,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42700B7d0s0  
sd=sd376,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42900B8d0s0  
sd=sd377,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42B00B9d0s0  
sd=sd378,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42D00BA0s0  
sd=sd379,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D42F00BB0s0  
sd=sd380,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43100BC0s0  
sd=sd381,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43300BD0s0  
sd=sd382,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43500BE0s0  
sd=sd383,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43600BF0s0  
sd=sd384,host=sbm-x42h,lun=/dev/rdisk/c0t600144F0F8797F1F000054C5D43800C0d0s0

## Large File Processing Test (LFP)

```
# * Large File Processing Test (LFP)

host=localhost,jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" )
host=(sbm-x42c),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42b),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42d),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42e),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42f),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42g),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42h),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
```

### Common Commands/Parameters – LFP, LDQ, VOD and Persistence

```
maxlatestart=0
reportinginterval=5
segmentlength=512m

#rd=default,rampup=45,periods=30,measurement=30,runout=15,rampdown=15,buffers=1
rd=default,rampup=180,periods=90,measurement=180,runout=45,rampdown=15,buffers=1
# rd=default,rampup=180,periods=90,measurement=600,runout=45,rampdown=15,buffers=1

* LFP, "write" Test Phase

* Test Run Sequence 1
rd=default,rdpct=0,xfersize=1024k
rd=TR1-s512_SPC-2-FP,streams=512
rd=TR2-s256_SPC-2-FP,streams=256
rd=TR3-s128_SPC-2-FP,streams=128
rd=TR4-s64_SPC-2-FP,streams=64
rd=TR5-s1_SPC-2-FP,streams=1

* Test Run Sequence 2
rd=default,xfersize=256k
rd=TR6-s1024_SPC-2-FP,streams=1024
rd=TR7-s512_SPC-2-FP,streams=512
rd=TR8-s256_SPC-2-FP,streams=256
rd=TR9-s128_SPC-2-FP,streams=128
rd=TR10-s1_SPC-2-FP,streams=1

* LFP, "read-write" Test Phase

* Test Run Sequence 3
rd=default,rdpct=50,xfersize=1024k
rd=TR11-s2048_SPC-2-FP,streams=2048
rd=TR12-s1024_SPC-2-FP,streams=1024
rd=TR13-s512_SPC-2-FP,streams=512
rd=TR14-s256_SPC-2-FP,streams=256
rd=TR15-s1_SPC-2-FP,streams=1

* Test Run Sequence 4
rd=default,xfersize=256k
rd=TR16-s1024_SPC-2-FP,streams=1024
rd=TR17-s512_SPC-2-FP,streams=512
rd=TR18-s256_SPC-2-FP,streams=256
rd=TR19-s128_SPC-2-FP,streams=128
```

```
rd=TR20-s1_SPC-2-FP,streams=1

* LFP, "read" Test Phase

* Test Run Sequence 5
rd=default,rdpct=100,xfersize=1024k
rd=TR21-s256_SPC-2-FP,streams=256
rd=TR22-s128_SPC-2-FP,streams=128
rd=TR23-s64_SPC-2-FP,streams=64
rd=TR24-s32_SPC-2-FP,streams=32
rd=TR25-s1_SPC-2-FP,streams=1

* Test Run Sequence 6
rd=default,xfersize=256k
rd=TR26-s1025_SPC-2-FP,streams=1024
rd=TR27-s512_SPC-2-FP,streams=512
rd=TR28-s256_SPC-2-FP,streams=256
rd=TR29-s128_SPC-2-FP,streams=128
rd=TR30-s1_SPC-2-FP,streams=1
```

## Large Database Query Test (LDQ)

# \* Large Database Query Test (LDQ)

```
host=localhost,jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m")
host=(sbm-x42c),jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42b),jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42d),jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42e),jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42f),jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42g),jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42h),jvms=2,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
```

## Common Commands/Parameters – LFP, LDQ, VOD and Persistence

```
maxlatestart=0
reportinginterval=5
segmentlength=512m

#rd=default,rdpct=99,rampup=60,periods=30,measurement=30,runout=25,rampdown=15
rd=default,rdpct=99,rampup=180,periods=90,measurement=180,runout=45,rampdown=15
# rd=default,rdpct=99,rampup=180,periods=90,measurement=600,runout=45,rampdown=15
* LDQ, 1024 KiB Test Phase
* Test Run Sequence 1
rd=default,xfersize=1024k,buffers=4
rd=TR1-s256_SPC-2-DQ,streams=256
rd=TR2-s128_SPC-2-DQ,streams=128
rd=TR3-s64_SPC-2-DQ,streams=64
rd=TR4-s32_SPC-2-DQ,streams=32
rd=TR5-s1_SPC-2-DQ,streams=1

* Test Run Sequence 2
rd=default,buffers=1
rd=TR6-s256_SPC-2-DQ,streams=256
rd=TR7-s128_SPC-2-DQ,streams=128
rd=TR8-s64_SPC-2-DQ,streams=64
rd=TR9-s32_SPC-2-DQ,streams=32
rd=TR10-s1_SPC-2-DQ,streams=1
```

```
* LDQ, 64 KiB Test Phase

* Test Run Sequence 3
rd=default,xfersize=64k,buffers=4
rd=TR11-s512_SPC-2-DQ,streams=512
rd=TR12-s256_SPC-2-DQ,streams=256
rd=TR13-s128_SPC-2-DQ,streams=128
rd=TR14-s64_SPC-2-DQ,streams=64
rd=TR15-s1_SPC-2-DQ,streams=1

* Test Run Sequence 4
rd=default,buffers=1
rd=TR16-s1024_SPC-2-DQ,streams=1024
rd=TR17-s512_SPC-2-DQ,streams=512
rd=TR18-s256_SPC-2-DQ,streams=256
rd=TR19-s128_SPC-2-DQ,streams=128

rd=TR20-s1_SPC-2-DQ,streams=1
```

## Logical Volume Initialization and Video on Demand Delivery (VOD)

# Video on Demand Test (VOD)

```
host=localhost,jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m")
host=(sbm-x42c),jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42b),jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42d),jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42e),jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42f),jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42g),jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
host=(sbm-x42h),jvms=4,java=(java,"-d64 -Xmx1536m -Xms600m"),shell=spc2
```

### Common Commands/Parameters – Idle, LFP, LDQ, VOD and Persistence

```
#maxlatestart=60
maxlatestart=0
#videosegmentduration=900
videosegmentduration=1200
#maxlatevod=60
maxlatevod=0
#reportinginterval=15
reportinginterval=5

#rd=default,rampup=900,periods=600,measurement=900,runout=45,rampdown=15,buffers=8
rd=default,rampup=1200,periods=600,measurement=7200,runout=45,rampdown=15,buffers=8
#rd=default,rampup=1200,periods=600,measurement=7200,runout=45,rampdown=15,buffers=8
rd=TR1-46000s_SPC-2-VOD,streams=46000

# To start slaves, run:
# nohup java -d64 -cp . RemoteStart > nohup.sbm-x42c.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-x42b.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-x42d.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-x42e.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-x42f.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-x42g.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-x42h.out 2>&1 &
#Or nohup java -d64 -cp . RemoteStart > nohup.`hostname`.out 2>&1 &
# On each Client
```

## SPC-2 Persistence Test Run 1 (*write phase*)

```
# Persist 1
host=localhost,jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" )
host=(sbm-x42c),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42b),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42d),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42e),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42f),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42g),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42h),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
```

### Common Commands/Parameters – Idle, LFP, LDQ, VOD and Persistence

```
maxlatestart=1
reportinginterval=5
segmentlength=512m

rd=default,rampup=180,periods=90,measurement=300,runout=0,rampdown=0,buffers=1
rd=default,rdpct=0,xfersize=1024k
rd=TR1-1024s_SPC-2-persist-w,streams=1024
```

## SPC-2 Persistence Test Run 2 (*read phase*)

```
# Persistence Test Run 2
host=localhost,jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" )
host=(sbm-x42c),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42b),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42d),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42e),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42f),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42g),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
host=(sbm-x42h),jvms=2,java=( java, "-d64 -Xmx1536m -Xms600m" ),shell=spc2
```

### Common Commands/Parameters – Idle, LFP, LDQ, VOD and Persistence

```
maxlatestart=1
reportinginterval=5
segmentlength=512m
maxpersistenceerrors=10

*corruptstreams=3
rd=default,buffers=1,rdpct=100,xfersize=1024k
rd=TR1-1024s_SPC-2-persist-r
```

## APPENDIX E: SPC-2 WORKLOAD GENERATOR EXECUTION COMMANDS AND PARAMETERS

### **ASU Pre-Fill, Test, Large File Processing Test, Large Database Query Test, Video on Demand Delivery Test, and SPC-2 Persistence Test Run 1**

The following script, **run7740a-sh.sh**, executes the following:

- Collects various system configuration information required for the audit
- The required ASU pre-fill
- The SPC-2 Tests:
  - Large File Processing (LPF)
  - Video on Demand (VOD)
  - Large Database Query (LDQ)
  - SPC-2 Persistence – Test Run 1 (*write phase*)
- Various ‘housekeeping’ in support of the test execution

#### **run7740a-sh.sh**

```
#### Gather Master client info and tunables
cp $script $outdir
hostdir=$outdir/HostP1
mkdir -p $hostdir
cp /etc/system $hostdir

#### Get config files and prtvtoc
cp -r /spc/spc2-2013/SPC2/Config-ZS4 $outdir/

##### Pre-Fill via vdbench
/vdbench/vdbench503rc11/vdbench -f $config/pre.txt -o $outdir/pre-1/

java -d64 -Xmx1536m -Xms600m -cp . vdbench -wSPC2 -f $config/spc2-vod.txt -o $outdir/init -init

java -d64 -Xmx12288m -Xms600m -cp . vdbench -wSPC2 -f $config/spc2-vod.txt -o $outdir/vod-MH/

java -d64 -Xmx6144m -Xms2048m -cp . vdbench -wSPC2 -f $config/spc2-ldq.txt -o $outdir/ldq-MH/

java -d64 -Xmx6144m -Xms600m -cp . vdbench -wSPC2 -f $config/spc2-lfp.txt -o $outdir/lfp-MH/

java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-persist1.txt -o $outdir/persist1/

cp $config/spc2-persist1.txt $outdir
cp $config/spc2-vod.txt $outdir
cp $config/spc2-ldq.txt $outdir
cp $config/spc2-lfp.txt $outdir

##### Persist 2
#cp $script $outdir/$script-P2
#java -d64 -Xmx8192m -cp . vdbench -wSPC2 -f $config/spc2-persist2.txt -o $outdir/persist2/
#sleep 5
#cp $config/spc2-persist2.txt $outdir
```



```
#sleep 5
#### Create status
echo "`/spc/SPC2_V1.2/spc2-x86/spc2reduce -v $outdir`" >> $outdir/Status.txt
#### Create Archive

cd $basedir ;/bin/chmod -R 777 $output ;mv $output.zip $output.zip-P1 ;/usr/bin/zip
-r $output.zip $output
#
####nohup java -d64 -cp . RemoteStart > nohup.`hostname`.out 2>&1 &
```

## SPC-2 Persistence Test Run 2

The following script, **run-7440a-sh.sh-P2**, was invoked to execute SPC-2 Persistence Test Run 2 (*read phase*) after the required TSC power off/power on cycle.

### run-7440a-sh.sh-P2

```
#!/usr/bin/ksh
#
set -x
#
#####
# SPC2 execution
RUN=Audit-Run-1 # 1-25-2015

#####

# Set SPC2 Output options

script=run-7440a-sh.sh
output=$RUN
basedir=/spc/output/spc2/x4-4/
outdir=$basedir/$output
config=./Config-ZS4
#mkdir -p $outdir
#cp pre-spc2.txt $outdir/pre-1/
#### Gather Master client info and tunables
#cp $script $outdir/$scrip-p2
#hostdir=$outdir/HostP1
#mkdir -p $hostdir
#cp /etc/system $hostdir

#### Get config files and prtvtoc
#cp -r /spc/spc2-2013/SPC2/Config-ZS4 $outdir/

##### Pre-Fill via vdbench
#/vdbench/vdbench503rc11/vdbench -f $config/pre.txt -o $outdir/pre-1/

#java -d64 -Xmx1536m -Xms600m -cp . vdbench -wSPC2 -f $config/spc2-vod.txt -o$outdir/init -init

#java -d64 -Xmx12288m -Xms600m -cp . vdbench -wSPC2 -f $config/spc2-vod.txt -o $outdir/vod-MH/

#java -d64 -Xmx6144m -Xms2048m -cp . vdbench -wSPC2 -f $config/spc2-ldq.txt -o $outdir/ldq-MH/

#java -d64 -Xmx6144m -Xms600m -cp . vdbench -wSPC2 -f $config/spc2-lfp.txt -o $outdir/lfp-MH/
```

```
#java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-persist1.txt -o
$outdir/persist1/

#cp $config/spc2-persist1.txt $outdir
#cp $config/spc2-vod.txt $outdir
#cp $config/spc2-ldq.txt $outdir
#cp $config/spc2-lfp.txt $outdir

##### Persist 2
cp $script $outdir/$script-P2
java -d64 -Xmx8192m -cp . vdbench -wSPC2 -f $config/spc2-persist2.txt -o
$outdir/persist2/
sleep 5
cp $config/spc2-persist2.txt $outdir
sleep 5
#### Create status
echo "`/spc/SPC2_V1.2/spc2-x86/spc2reduce -v $outdir`" >> $outdir/Status.txt
#### Create Archive

cd $basedir ;/bin/chmod -R 777 $output ;mv $output.zip $output.zip-P1 ;/usr/bin/zip
-r $output.zip $output
#
###nohup java -d64 -cp . RemoteStart > nohup.`hostname`.out 2>&1 &
```