



ORACLE

SPC BENCHMARK 2TM
FULL DISCLOSURE REPORT

ORACLE CORPORATION
ORACLE ZFS STORAGE ZS3-4
(2-NODE CLUSTER)

SPC-2TM V1.5

Submitted for Review: September 10, 2013
Submission Identifier: B00067

First Edition – September 2013

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AUDIT CERTIFICATION



Gradient
SYSTEMS

Steven Johnson
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September 6, 2013

The SPC Benchmark 2™ Reported Data listed below for the **Oracle ZFS Storage ZS3-4 (2-node cluster)** was produced in compliance with the SPC Benchmark 2™ V1.5 Onsite Audit requirements.

SPC Benchmark 2™ V1.5 Reported Data	
Tested Storage Product (TSP) Name: Oracle ZFS Storage ZS3-4 (2-node cluster)	
Metric	Reported Result
SPC-2 MBPS™	17,244.22
SPC-2 Price-Performance	\$22.53/SPC-2 MBPS™
ASU Capacity	31,610.959 GB
Data Protection Level	Protected 2 (<i>Mirroring</i>)
Total Price (<i>including three-year maintenance</i>)	\$388,472.03
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 related requirements.
 - ✓ Configured Storage Capacity and related requirements.
 - ✓ Addressable Storage Capacity and related requirements.
 - ✓ Capacity of each Logical Volume and related requirements.
 - ✓ Capacity of the Application Storage Unit (ASU) and related 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 ZS3-4 (2-node cluster)
SPC-2 Audit Certification

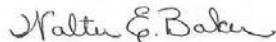
Page 2

- An appropriate diagram of the Benchmark Configuration (BC)/Tested Storage Configuration (TSC).
- Physical verification of the components to match the above diagram.
- Listings and commands used to create and 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 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 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 and 7 of the SPC-2 Benchmark 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-2 Benchmark Specification.
- The Full Disclosure Report (FDR) met all of the requirements in Clause 10 of the SPC-2 Benchmark 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

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LETTER OF GOOD FAITH



Oracle America, Inc. 500 Eldorado Boulevard phone: +1.303.464.4000
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July 29, 2013
From:
Oracle Corporation
Steven A. Johnson
500 Eldorado Blvd.
Broomfield, CO 80021

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 ZS3-4

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,

Phil Bullinger - Senior VP

July 29, 2013
Date of Signature

EXECUTIVE SUMMARY

Test Sponsor and Contact Information

Test Sponsor and Contact Information	
Test Sponsor Primary Contact	Oracle Corporation – http://www.oracle.com Steven Johnson – Steven.A.Johnson@oracle.com 500 Eldorado Blvd. Broomfield, CO 80021 Phone: (303) 272-9476
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Auditor	Storage Performance Council – http://www.storageperformance.org Walter E. Baker – AuditService@StoragePerformance.org 643 Bair Island Road, Suite 103 Redwood City, CA 94063 Phone: (650) 556-9384 FAX: (650) 556-9385

Revision Information and Key Dates

Revision Information and Key Dates	
SPC-2 Specification revision number	V1.5
SPC-2 Workload Generator revision number	V1.2
Date Results were first used publicly	September 10, 2013
Date FDR was submitted to the SPC	September 10, 2013
Date the TSC will be available for shipment to customers	November 5, 2013
Date the TSC completed audit certification	September 6, 2013

Tested Storage Product (TSP) Description

Oracle's ZFS Storage ZS3-4 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 ZS3-4 offers simplified set up and management combined with industry-leading storage analytics.

The ZFS Storage ZS3-4 can scale to 2 TB Memory, 80 CPU cores, and 3.4 PB capacity, with up to 12.8 TB of Flash Cache in a high-availability configuration.

ZFS Storage Appliances deliver additional economic value with 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** 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.

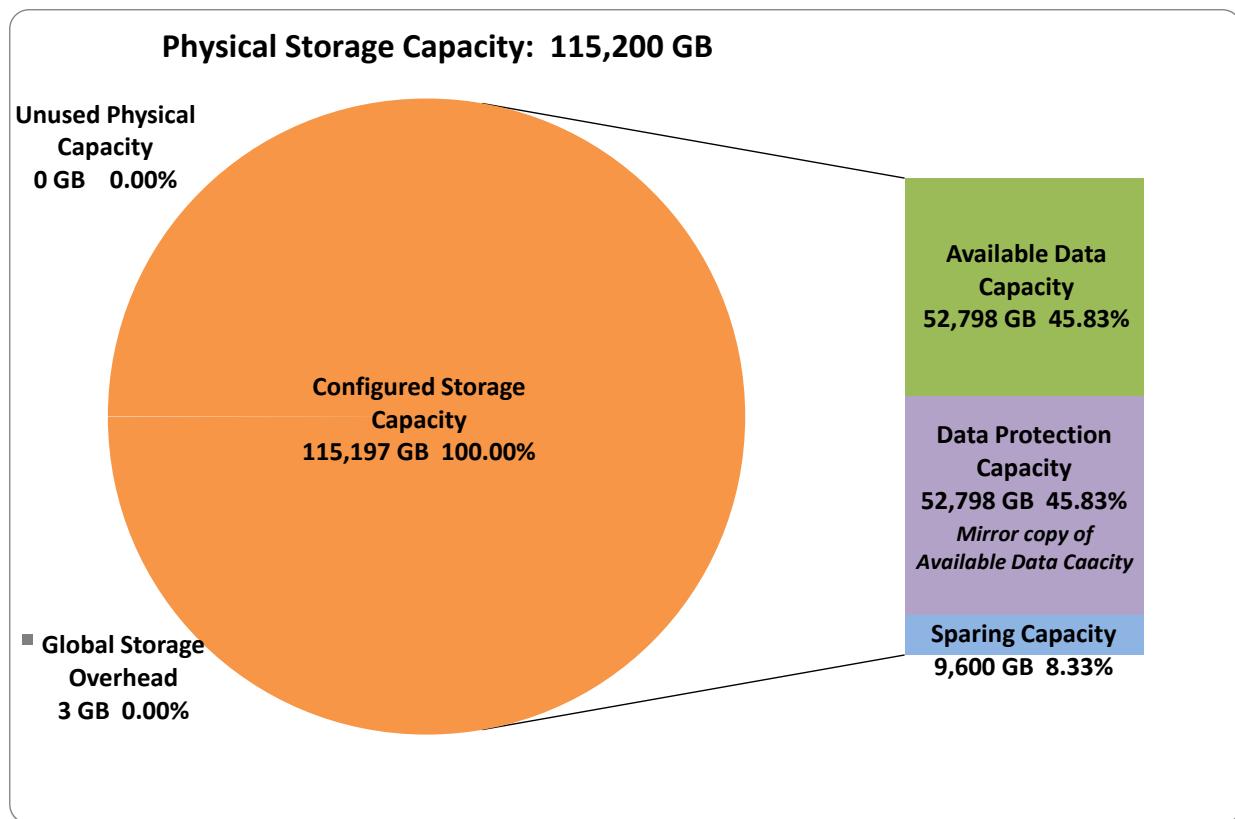
SPC-2 Reported Data (*continued*)

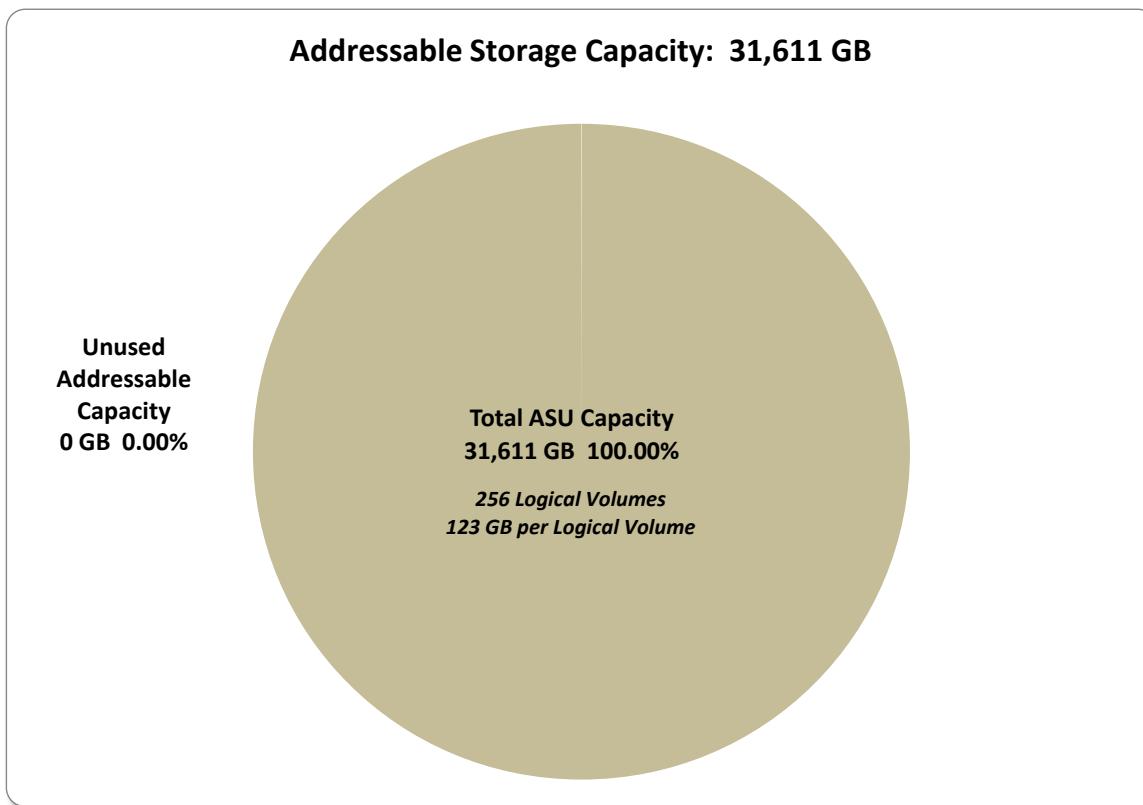
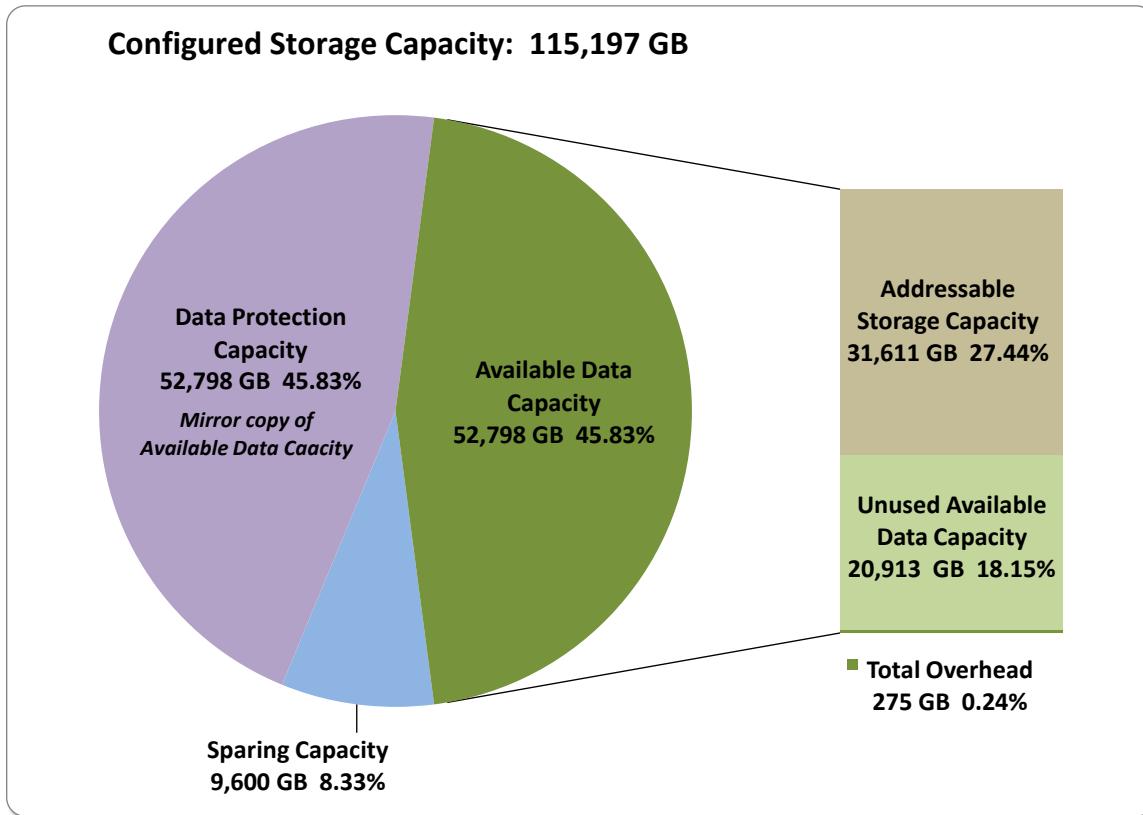
SPC-2 Reported Data				
Oracle ZFS Storage ZS3-4 (2-node cluster)				
SPC-2 MBPS™	SPC-2 Price-Performance	ASU Capacity (GB)	Total Price	Data Protection Level
17,244.22	\$22.53	31,610.959	\$388,472.03	Protected 2 (Mirroring)
<i>The above SPC-2 MBPS™ value represents the aggregate data rate of all three SPC-2 workloads: Large File Processing (LFP), Large Database Query (LDQ), and Video On Demand (VOD)</i>				
SPC-2 Large File Processing (LFP) Reported Data				
	Data Rate (MB/second)	Number of Streams	Data Rate per Stream	Price-Performance
LFP Composite	12,755.37			\$30.46
Write Only:				
1024 KiB Transfer	10,562.74	1,024	10.32	
256 KiB Transfer	3,313.15	1,024	3.24	
Read-Write:				
1024 KiB Transfer	17,030.42	2,048	8.32	
256 KiB Transfer	5,705.64	512	11.14	
Read Only:				
1024 KiB Transfer	20,157.03	128	157.48	
256 KiB Transfer	19,763.24	1,024	19.30	
<i>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).</i>				
SPC-2 Large Database Query (LDQ) Reported Data				
	Data Rate (MB/second)	Number of Streams	Data Rate per Stream	Price-Performance
LDQ Composite	19,709.74			\$19.71
1024 KiB Transfer Size				
4 I/Os Outstanding	20,222.59	128	157.99	
1 I/O Outstanding	20,359.76	256	79.53	
64 KiB Transfer Size				
4 I/Os Outstanding	19,355.37	256	75.61	
1 I/O Outstanding	18,901.23	1,024	18.46	
<i>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).</i>				
SPC-2 Video On Demand (VOD) Reported Data				
	Data Rate (MB/second)	Number of Streams	Data Rate per Stream	Price-Performance
	19,267.55	24,500	0.79	\$20.16

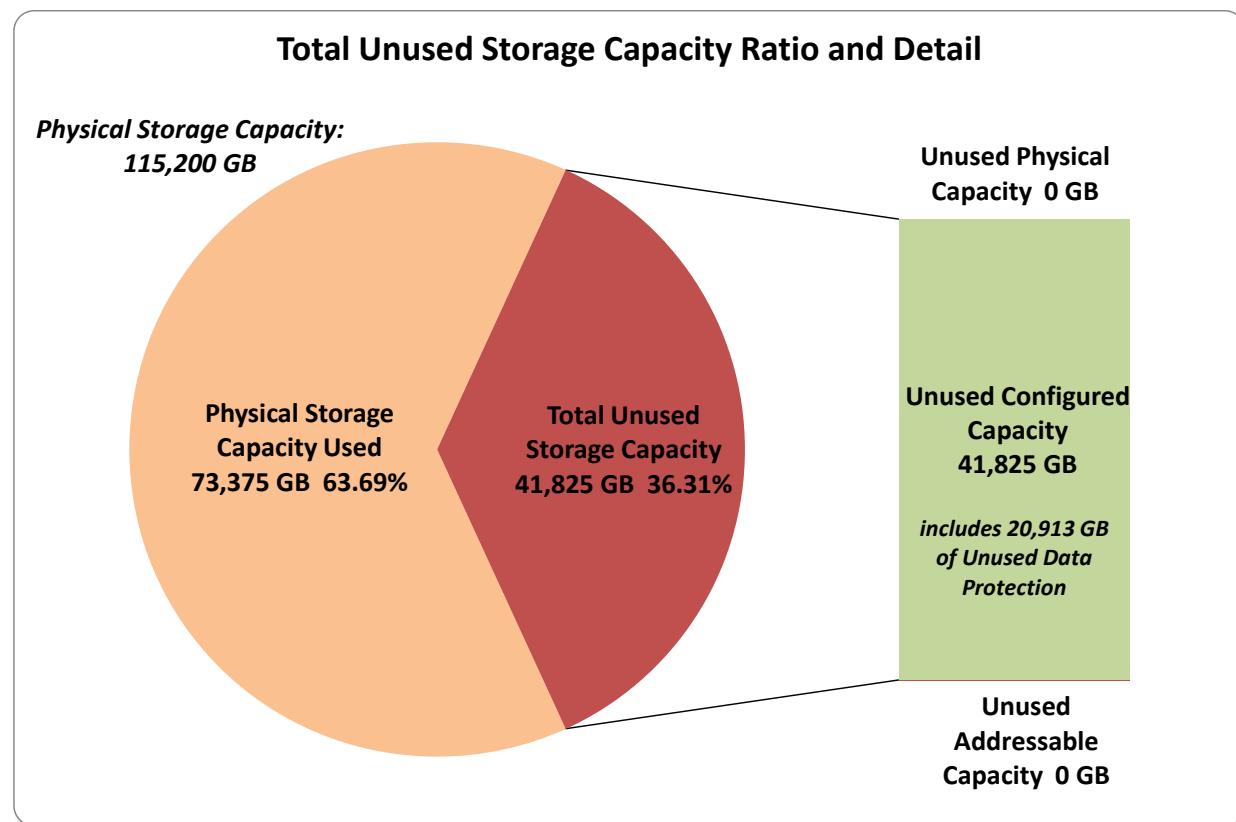
Storage Capacities, Relationships and Utilization

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	27.44%
Protected Application Utilization	56.12%
Unused Storage Ratio	36.31%

Application Utilization: Total ASU Capacity ($31,610.959\text{ GB}$) divided by Physical Storage Capacity ($115,200.000\text{ GB}$).

Protected Application Utilization: Total ASU Capacity ($31,610.959\text{ GB}$) plus total Data Protection Capacity ($52,798.498\text{ GB}$) minus unused Data Protection Capacity ($20,912.660\text{ GB}$) divided by Physical Storage Capacity ($115,200.000\text{ GB}$).

Unused Storage Ratio: Total Unused Capacity ($41,825.321\text{ GB}$) divided by Physical Storage Capacity ($115,200.000\text{ GB}$) and may not exceed 45%.

Detailed information for the various storage capacities and utilizations is available on pages 25-26 in the Full Disclosure Report.

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

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

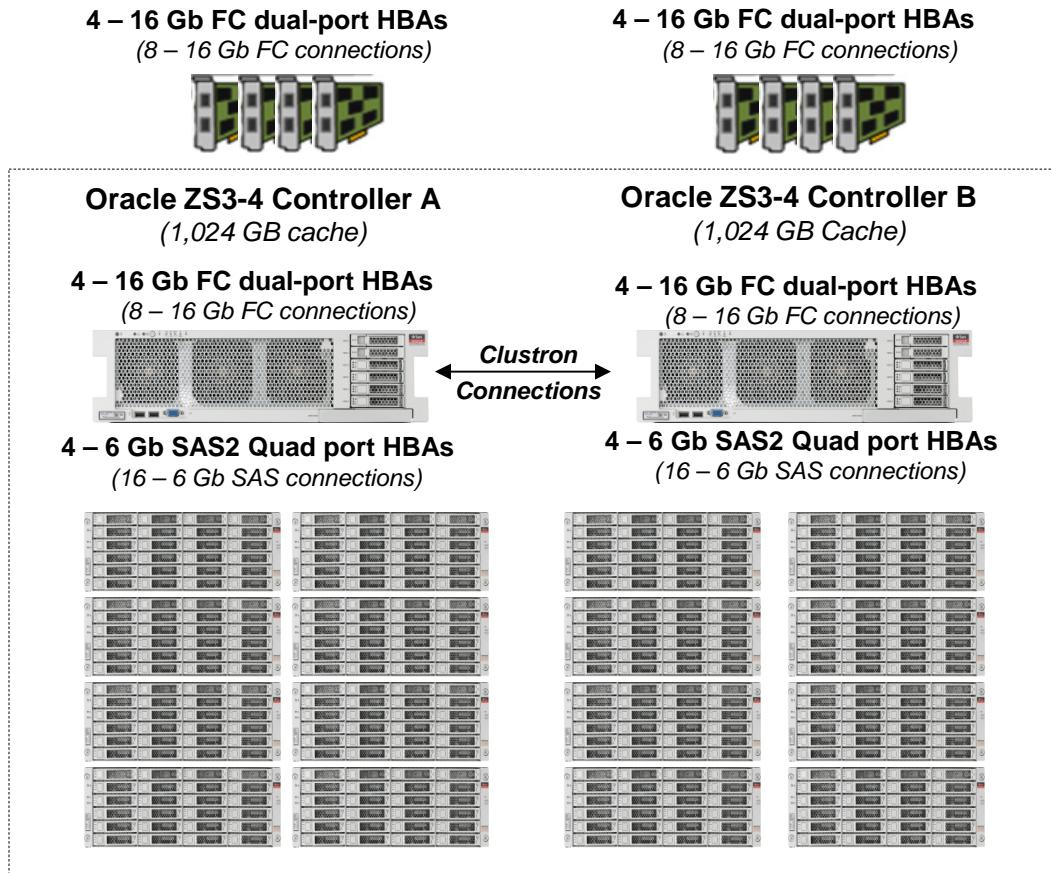
Priced Storage Configuration Pricing

Part Number	Description	Quantity	US List	Total List	Discount	Net Price
7105725	Oracle ZFS Storage ZS3-4 appliance (for factory installation) Note: Each controller includes 2 SAS PCIe 6Gb 16 port adapters and 8 mini SAS to mini SAS HD cables.	2	54,681.00	109,362.00	40.00%	65,617.20
7105053	Two 16 GB DDR3-1066 DIMMs (for factory installation).	64	444.00	28,416.00	20.00%	22,732.80
7103790	SAS PCIE 6Gbs 16 port (for factory installation)	4	1,167.00	4,668.00	40.00%	2,800.80
7106737	Cable: 3 meters, mini SAS to mini SAS HD	16	250.00	4,000.00	40.00%	2,400.00
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
DS2-0BASE	Sun disk shelf: base chassis with 2 SAS-2 I/O modules, 2 AC PSUs and 2 cooling fans (for factory installation)	16	4,905.00	78,480.00	40.00%	47,088.00
DS2-4URK-19U	Sun disk shelf: universal rail kit for 19-inch depth racks (for factory installation)	16	230.00	3,680.00	40.00%	2,208.00
7101274	300GB 15K RPM disk	384	411.00	157,824.00	40.00%	94,694.40
SR-JUMP-1MC13	Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)	32	29.00	928.00	40.00%	556.80
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
7101674	Sun Storage 16Gbs FC PCIe HBA, dual port, Qlogic	16	2,035.00	32,560.00	40.00%	19,536.00
7101676	Sun Storage 16Gbs FC optics, SR, Qlogic	32	1,152.00	36,864.00	40.00%	22,118.40
X9732A-Z-N	2M LC to LC FC Optical Cable RoHS-6 compliant	16	65.00	1,040.00	40.00%	624.00
	Oracle Premium Support for Systems: 1-Year 7/24, 2 hour response time.	3		167,195.52		102,830.83
TOTALS					631,627.52	388,472.03

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.

Priced Storage Configuration Diagram



Oracle ZFS Storage ZS3-4 (2-node cluster)

- 2 – Oracle ZFS ZS3-4 controllers** (cluster configuration)
(1,024 GB cache per controller, 2,048 GB total)
- 8 – 16 Gb FC dual-port HBAs** (4 HBAs per controller)
(8 – 16 Gb FC connections per controller, 16 total, 16 used)
- 8 – 6 Gb SAS2 quad-port HBAs** (4 HBAs per controller)
(16 – 6 Gb SAS2 connections per controller, 32 total, 32 used)
- 16 – Sun disk shelf base** (2 SAS I/O modules per base)
- 384 – 300 GB 15K RPM SAS Disk Drives**
- 2 – Sun Rack II 42U**
- 2 – Sun Rack II 10kVA PDU**

Priced Storage Configuration Components

Priced Storage Configuration Components:
8 – Sun Storage 16 Gbps FC PCIe dual-port HBAs with 16 – Sun Storage 16 Gbps FC optics
Oracle ZFS Storage ZS3-4 (2-node cluster)
2 – Oracle ZFS ZS3-4 controllers (<i>cluster configuration</i>) 1024 GB cache/memory per controller (<i>2048 GB total</i>)
8 – Sun Storage 16 Gbps FC PCIe dual-port HBAs with 16 – Sun Storage 16 Gbps FC optics (<i>4 FC HBAs and 8 FC optics per controller</i>)
8 – 16 Gb FC front-end connections per controller (<i>16 – 16 Gb FC front-end connections total, 16 used</i>)
4 – SAS PCIe 6 Gb adapters (<i>2 adapters included with each controller</i>)
4 physical SAS connections per adapter
4 logical SAS connections per physical connection
16 logical SAS connections per adapter
8 physical SAS connections per controller (<i>16 total, 16 used</i>)
4 – SAS PCIe 6 Gb adapters (<i>2 additional adapters per controller</i>)
4 physical SAS connections per adapter
4 logical SAS connections per physical connection
16 logical SAS connections per adapter
8 physical SAS connections per controller (<i>16 total connections, 16 connections used</i>)
16 – Sun disk shelf base each with 2 SAS I/O modules, 2 AC PSUs and 2 cooling fans
384 – 300 GB 15K RPM disk drives
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 [21 \(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 Benchmark Configuration (BC)/Tested Storage Configuration (TSC) was configured with local storage and, as such, did not employ a storage network.

Host System and Tested Storage Configuration Table

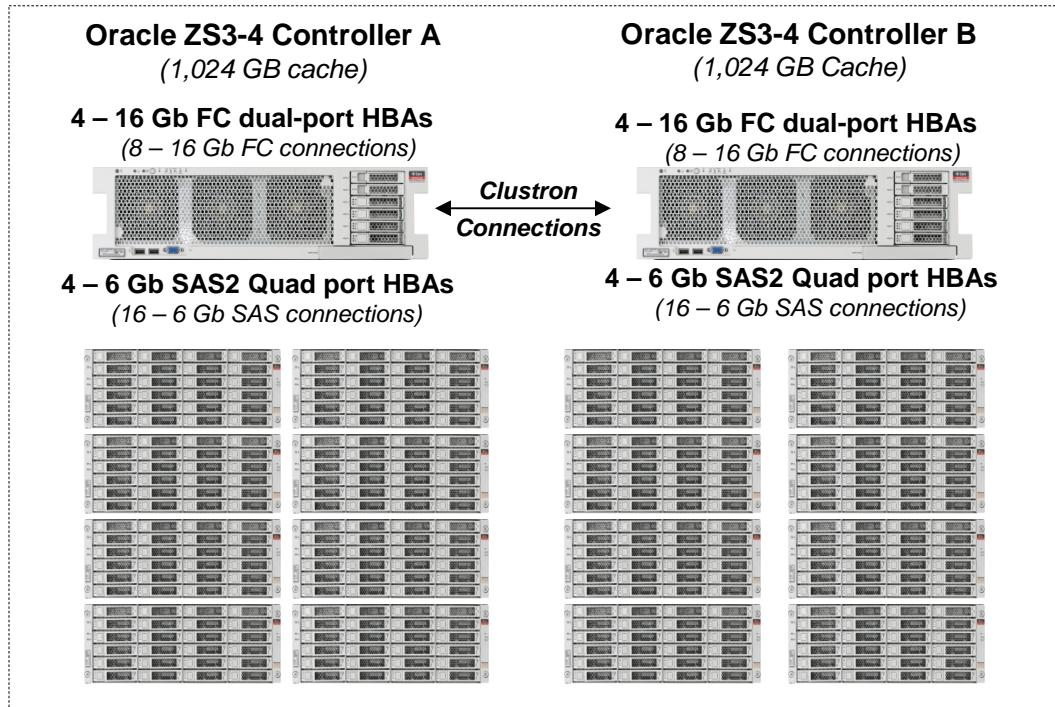
Clause 10.6.6.2

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 [22 \(Host System and Tested Storage Configuration Components\)](#).

Benchmark Configuration/Tested Storage Configuration Diagram

8 – Oracle Sun Fire X4170 M2 servers



Oracle ZFS Storage ZS3-4 (*2-node cluster*)

- 2 – Oracle ZFS ZS3-4 controllers** (*cluster configuration*)
(1,024 GB cache per controller, 2,048 GB total)
- 8 – 16 Gb FC dual-port HBAs** (4 HBAs per controller)
(8 – 16 Gb FC connections per controller, 16 total, 16 used)
- 8 – 6 Gb SAS2 quad-port HBAs** (4 HBAs per controller)
(16 – 6 Gb SAS2 connections per controller, 32 total, 32 used)
- 16 – Sun disk shelf base** (2 SAS I/O modules per base)

384 – 300 GB 15K RPM SAS Disk Drives

2 – Sun Rack II 42U

2 – Sun Rack II 10kVA PDU

Host System and Tested Storage Configuration Components

Host Systems:	Tested Storage Configuration (TSC):
8 – Oracle Sun Fire x4170 M2 servers each with: 2 – Intel® Xeon® X5675 3.0 Ghz Processors, 32 KB instruction and 32 KB data L1 cache, 256 KB unified L2 cache, 12 MB shared inclusive L3 cache 48 GB Oracle Solaris 11.1 x86 64-bit PCIe Gen2	8 – Sun Storage 16 Gbps FC PCIe dual-port HBA with 16 – Sun Storage 16 Gbps FC optics
	Oracle ZFS Storage ZS3-4 (2-node cluster) 2 – Oracle ZFS ZS3-4 controllers (<i>cluster configuration</i>) 1024 GB cache/memory per controller (2048 GB total) 8 – Sun Storage 16 Gbps FC dual-port HBAs with 16 – Sun Storage 16 Gbps FC optics (4 FC HBAs and 8 FC optics per controller) 8 – 16 Gb FC front-end connections per controller (16 -16 Gb FC front-end connections total, 16 used) 4 – SAS PCIe 6 Gb adapters (2 adapters included with each controller) 4 – physical SAS connections per adapter 4 – logical SAS connection per physical connection 16 – logical SAS connections per adapter 8 – physical SAS connection per controller (16 total connections, 16 connections used)
	4 – SAS PCIe 6 Gb adapters (2 additional adapters per controller) 4 – physical SAS connections per adapter 4 – logical SAS connection per physical connection 16 – logical SAS connections per adapter 8 – physical SAS connection per controller (16 total connections, 16 connections used)
	16 – Sun disk shelf base, each with 2 SAS I/O modules 2 AC PSUs and 2 cooling fans
	384 – 300 GB 15K RPM disk drives
	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 [91](#).

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 [91](#).

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 115,200.000 GB distributed over 384 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 3.278 GB (0.003%) of the Physical Storage Capacity. There was 41,825.321 GB (36.31%) of Unused Storage within the Configured Storage Capacity. The Total ASU Capacity utilized 100% 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 52,798.498 GB of which 31,610.959 GB was utilized. The total Unused Storage was 41,825.321 GB.

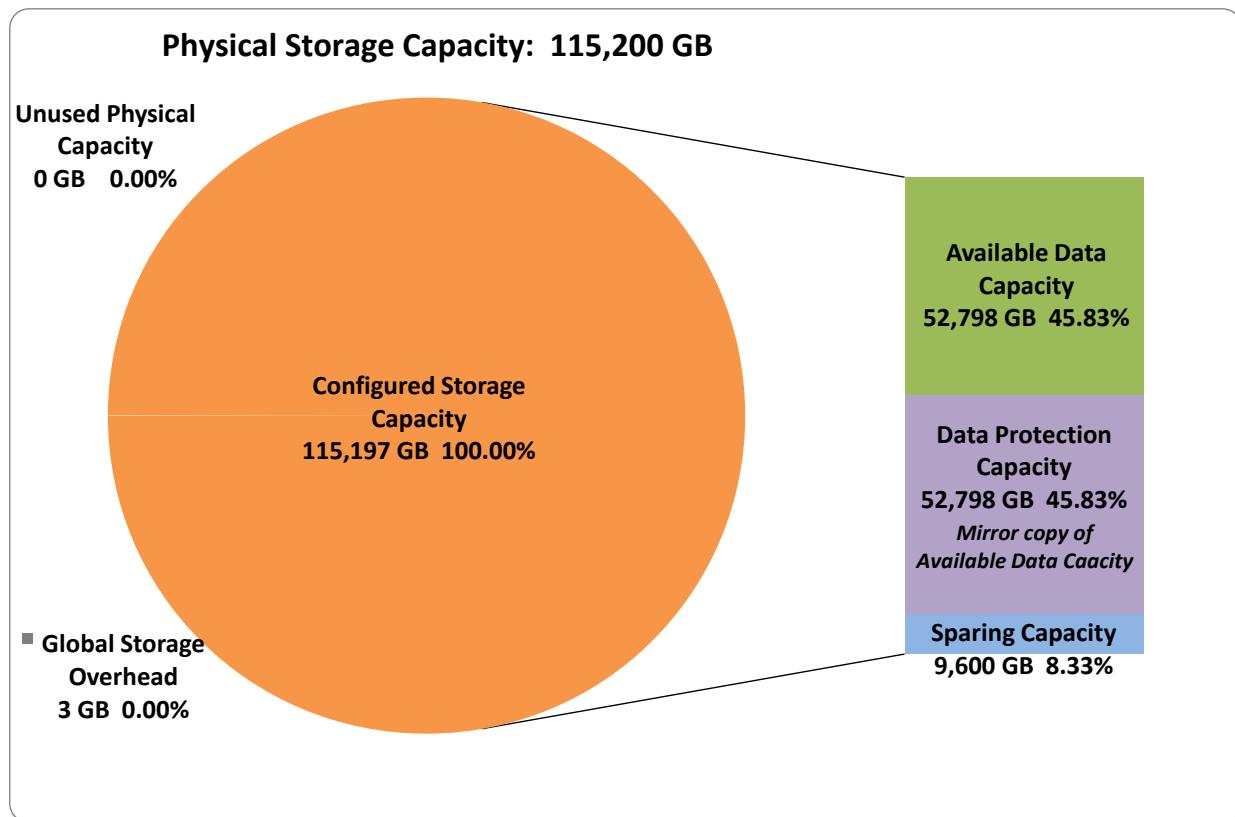
Note: The configured Storage Devices may include additional storage capacity reserved for system overhead, which is not accessible for application use. That storage capacity may not be included in the value presented for Physical Storage Capacity.

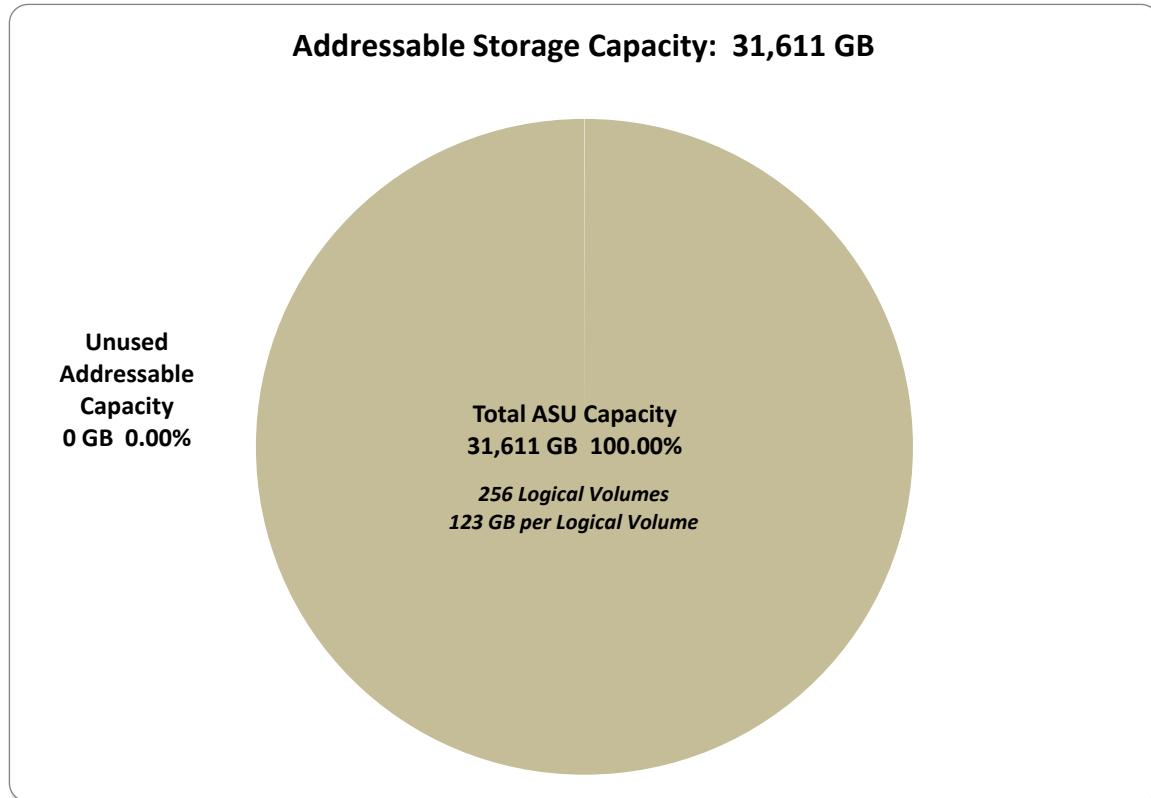
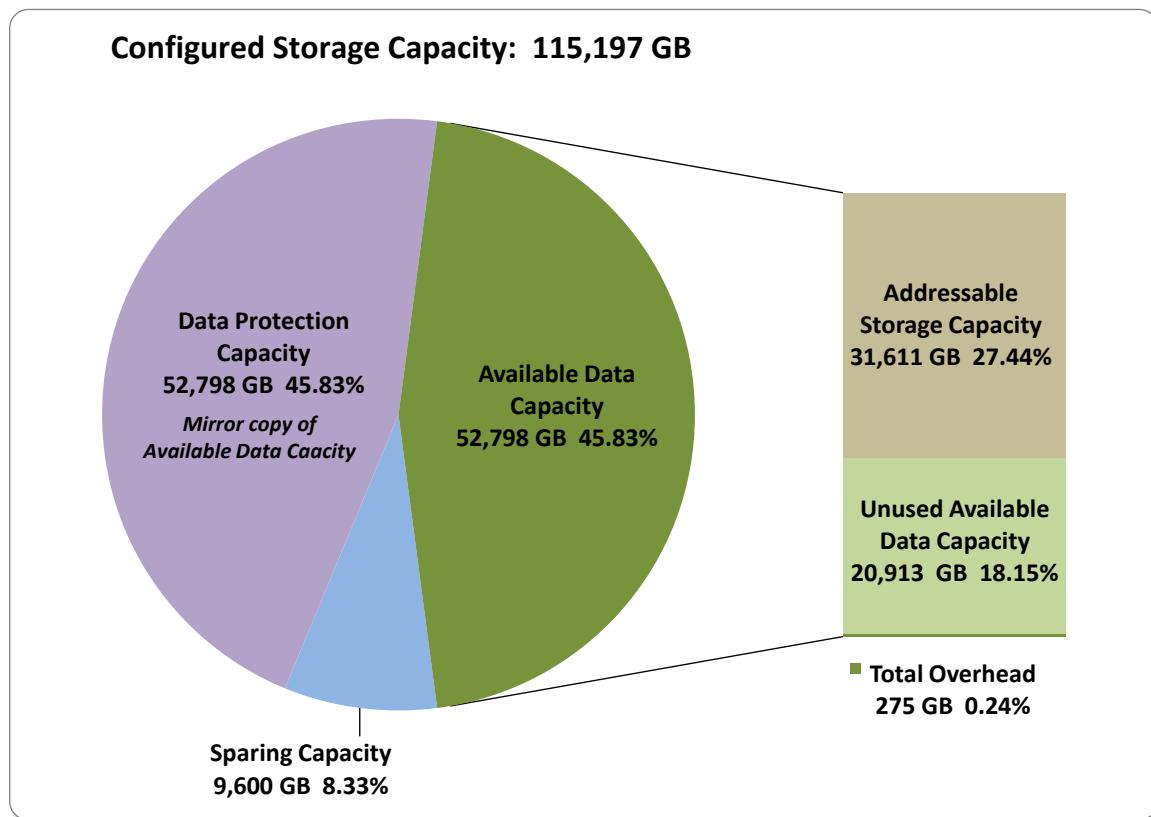
SPC-2 Storage Capacities		
Storage Hierarchy Component	Units	Capacity
Total ASU Capacity	Gigabytes (GB)	31,610.959
Addressable Storage Capacity	Gigabytes (GB)	31,610.959
Configured Storage Capacity	Gigabytes (GB)	115,196.722
Physical Storage Capacity	Gigabytes (GB)	115,200.000
Data Protection (<i>Mirroring</i>)	Gigabytes (GB)	52,798.498
Required Storage (<i>sparing, overhead</i>)	Gigabytes (GB)	10,149.483
Global Storage Overhead	Gigabytes (GB)	3.278
Total Unused Storage	Gigabytes (GB)	41,825.321

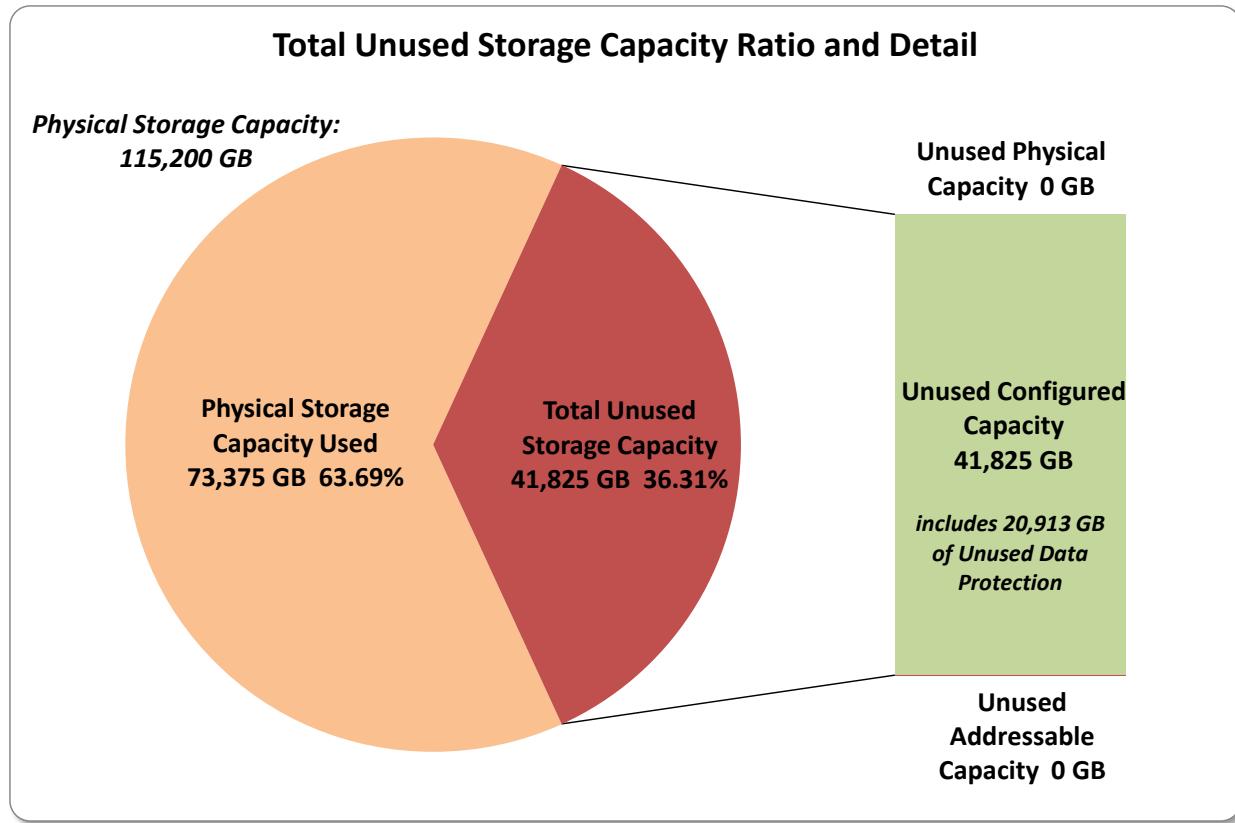
SPC-2 Storage Hierarchy Ratios

	Addressable Storage Capacity	Configured Storage Capacity	Physical Storage Capacity
Total ASU Capacity	100.00%	27.44%	27.44%
Data Protection (mirroring)		45.83%	45.83%
Addressable Storage Capacity		27.44%	27.44%
Required Storage (spares, overhead)		8.81%	8.81%
Configured Storage Capacity			100.00%
Global Storage Overhead			0.003%
Unused Storage:			
Addressable	0.00%		
Configured		36.31%	
Physical			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	27.44%
Protected Application Utilization	55.12%
Unused Storage Ratio	36.31%

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.

Logical Volume (LV) Capacity and Mapping			
ASU (31,610.959 GB)			
	Total Capacity (GB)	Capacity Used (GB)	Capacity Unused (GB)
Logical Volumes 1-256	123.480 per LV	123.480 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 [91](#) 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 [133](#).

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.

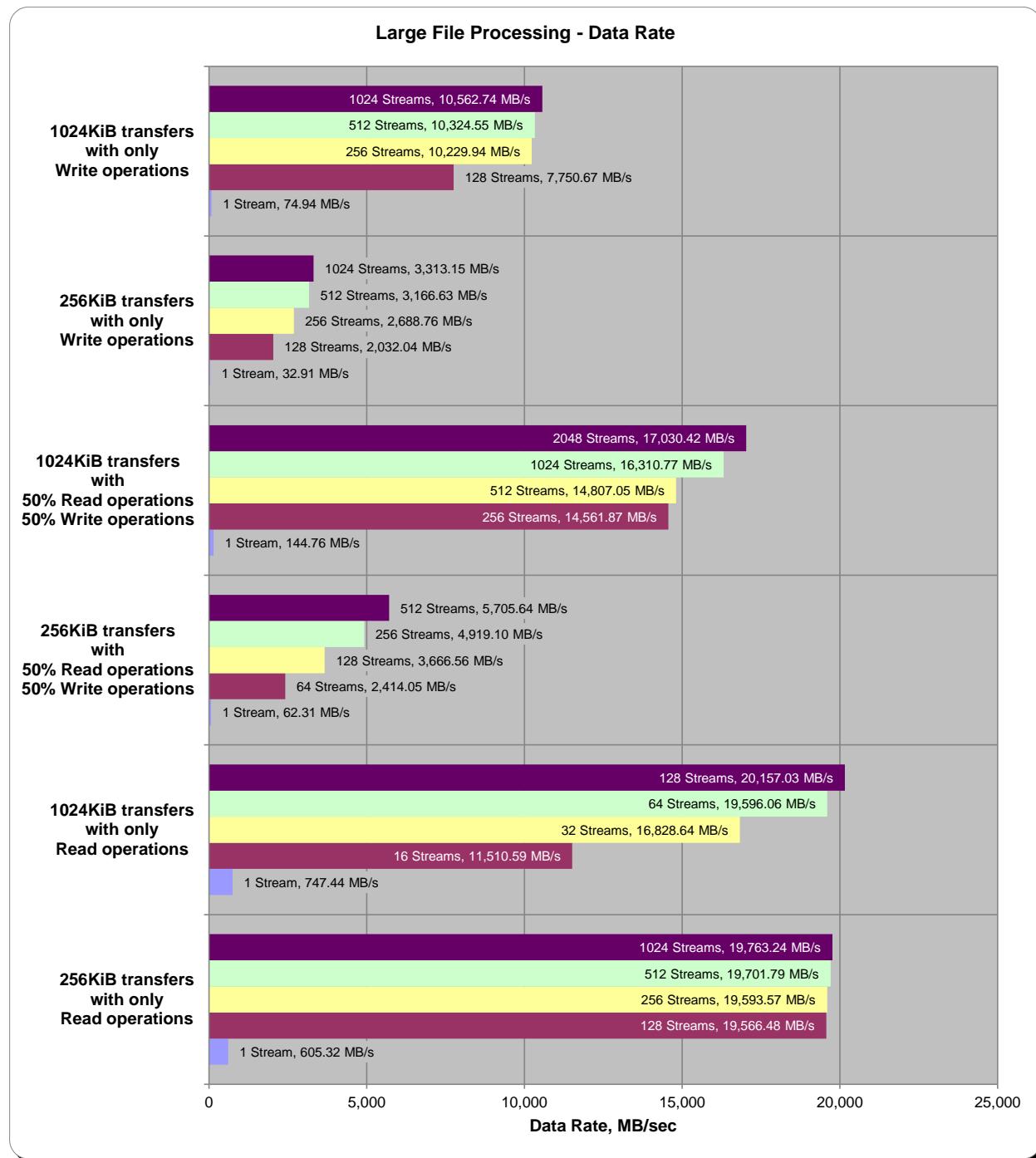
[SPC-2 Large File Processing Test Results File](#)

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.

Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Write 1024KiB	74.94	7,750.67	10,229.94	10,324.55	10,562.74
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Write 256KiB	32.91	2,032.04	2,688.76	3,166.63	3,313.15
Test Run Sequence	1 Stream	256 Streams	512 Streams	1024 Streams	2048 Streams
Read/Write 1024KiB	144.76	14,561.87	14,807.05	16,310.77	17,030.42
Test Run Sequence	1 Stream	64 Streams	128 Streams	256 Streams	512 Streams
Read/Write 256KiB	62.31	2,414.05	3,666.56	4,919.10	5,705.64
Test Run Sequence	1 Stream	16 Streams	32 Streams	64 Streams	128 Streams
Read 1024KiB	747.44	11,510.59	16,828.64	19,596.06	20,157.03
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Read 256KiB	605.32	19,566.48	19,593.57	19,701.79	19,763.24

SPC-2 Large File Processing Average Data Rates Graph

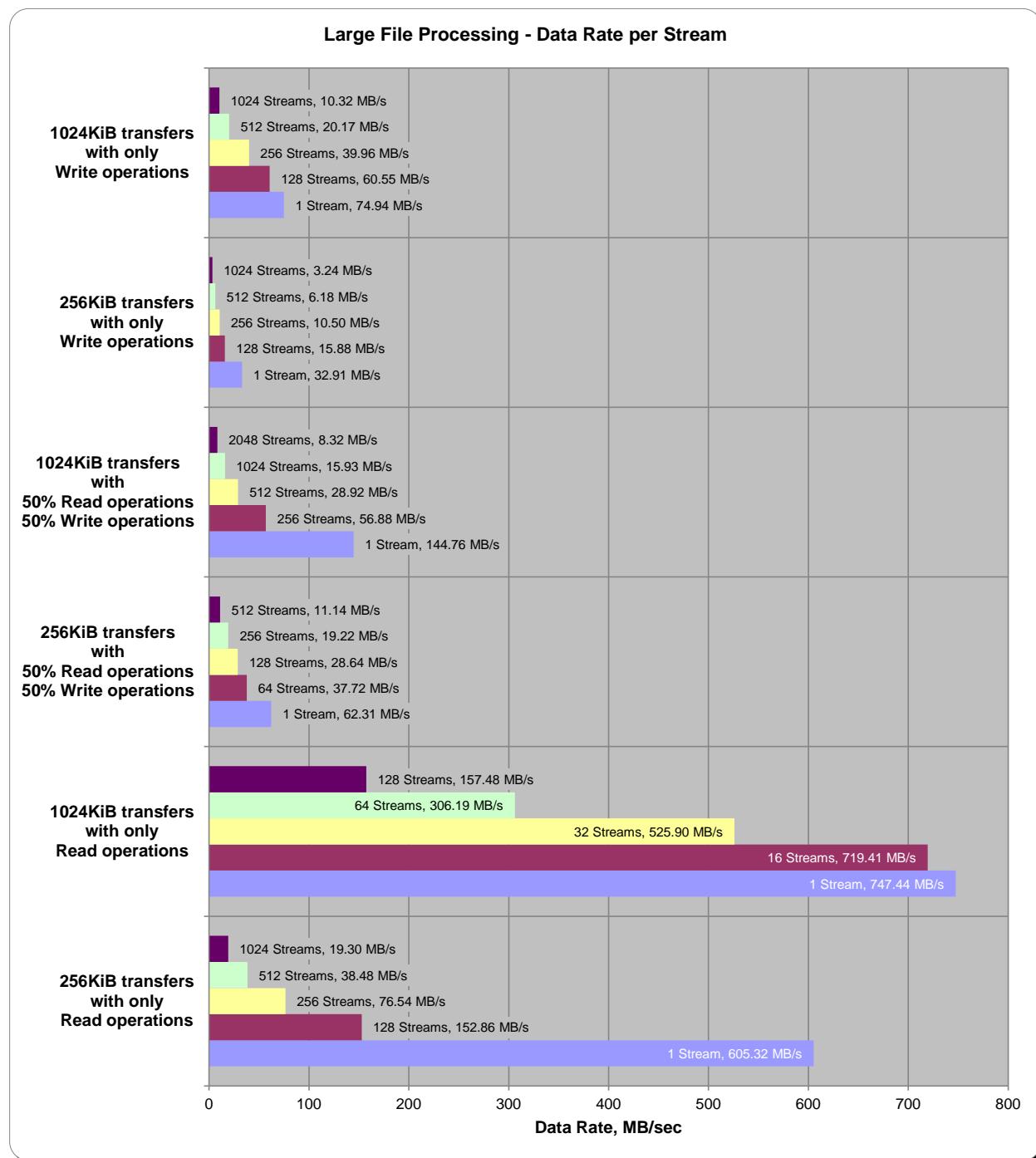


SPC-2 Large File Processing Average Data Rate per Stream

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.

Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Write 1024KiB	74.94	60.55	39.96	20.17	10.32
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Write 256KiB	32.91	15.88	10.50	6.18	3.24
Test Run Sequence	1 Stream	256 Streams	512 Streams	1024 Streams	2048 Streams
Read/Write 1024KiB	144.76	56.88	28.92	15.93	8.32
Test Run Sequence	1 Stream	64 Streams	128 Streams	256 Streams	512 Streams
Read/Write 256KiB	62.31	37.72	28.64	19.22	11.14
Test Run Sequence	1 Stream	16 Streams	32 Streams	64 Streams	128 Streams
Read 1024KiB	747.44	719.41	525.90	306.19	157.48
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Read 256KiB	605.32	152.86	76.54	38.48	19.30

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

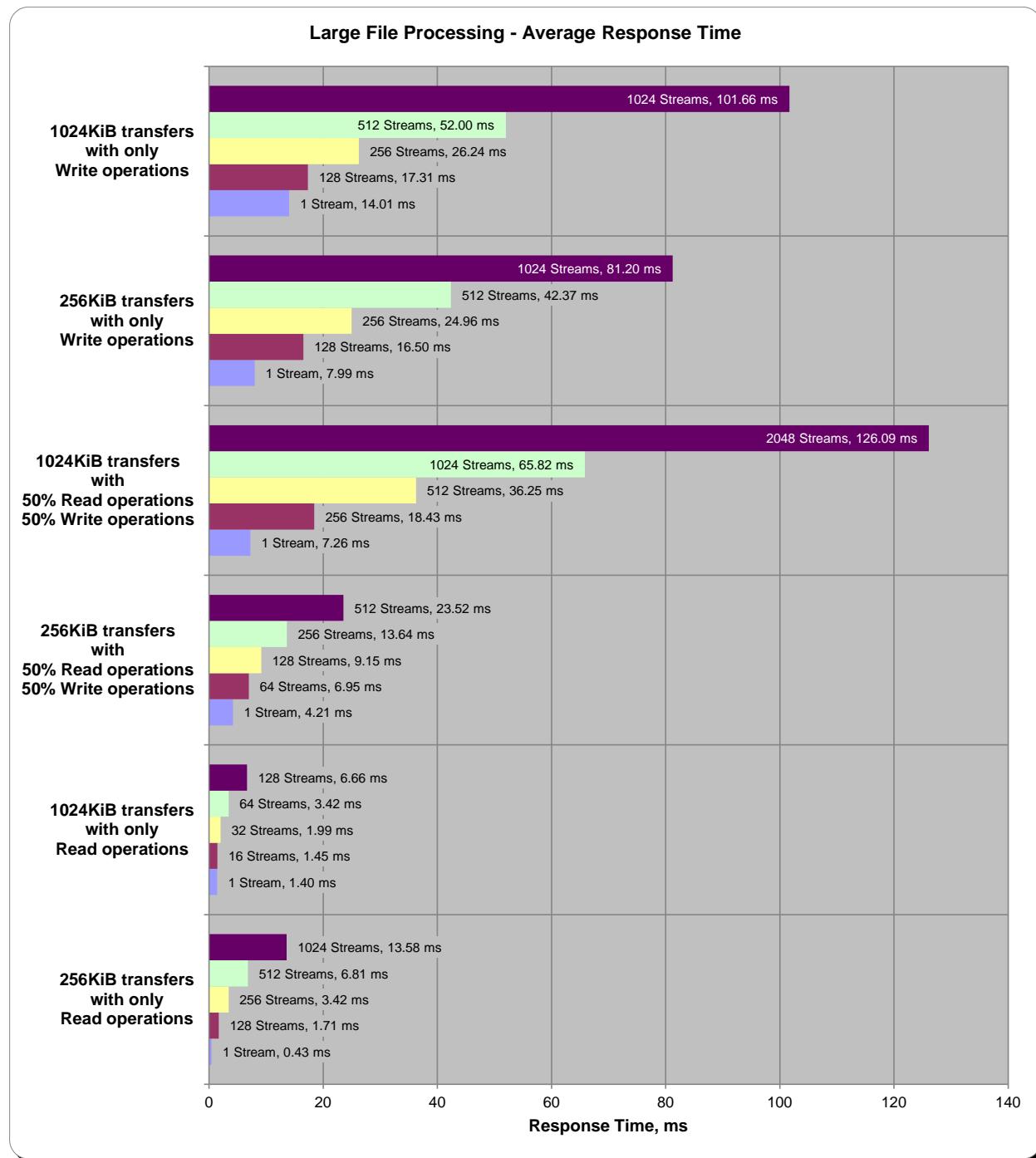


SPC-2 Large File Processing Average Response Time

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.

Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Write 1024KiB	14.01	17.31	26.24	52.00	101.66
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Write 256KiB	7.99	16.50	24.96	42.37	81.20
Test Run Sequence	1 Stream	256 Streams	512 Streams	1024 Streams	2048 Streams
Read/Write 1024KiB	7.26	18.43	36.25	65.82	126.09
Test Run Sequence	1 Stream	64 Streams	128 Streams	256 Streams	512 Streams
Read/Write 256KiB	4.21	6.95	9.15	13.64	23.52
Test Run Sequence	1 Stream	16 Streams	32 Streams	64 Streams	128 Streams
Read 1024KiB	1.40	1.45	1.99	3.42	6.66
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
Read 256KiB	0.43	1.71	3.42	6.81	13.58

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 [133](#).

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.

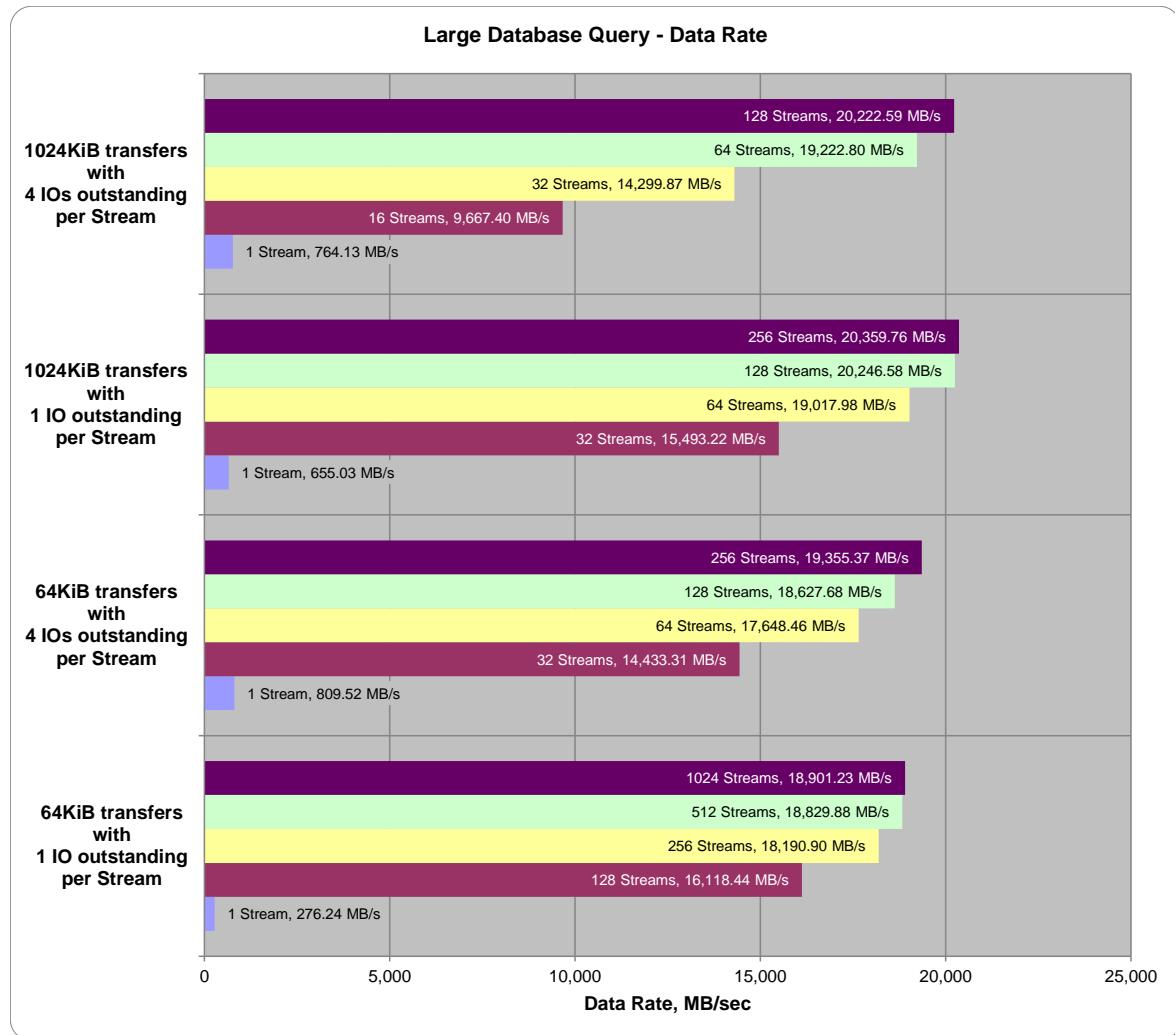
[SPC-2 Large Database Query Test Results File](#)

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	16 Streams	32 Streams	64 Streams	128 Streams
1024KiB w/ 4 IOs/Stream	764.13	9,667.40	14,299.87	19,222.80	20,222.59
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 1 IO/Stream	655.03	15,493.22	19,017.98	20,246.58	20,359.76
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
64KiB w/ 4 IOs/Stream	809.52	14,433.31	17,648.46	18,627.68	19,355.37
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
64KiB w/ 1 IO/Stream	276.24	16,118.44	18,190.90	18,829.88	18,901.23

SPC-2 Large Database Query Average Data Rates Graph

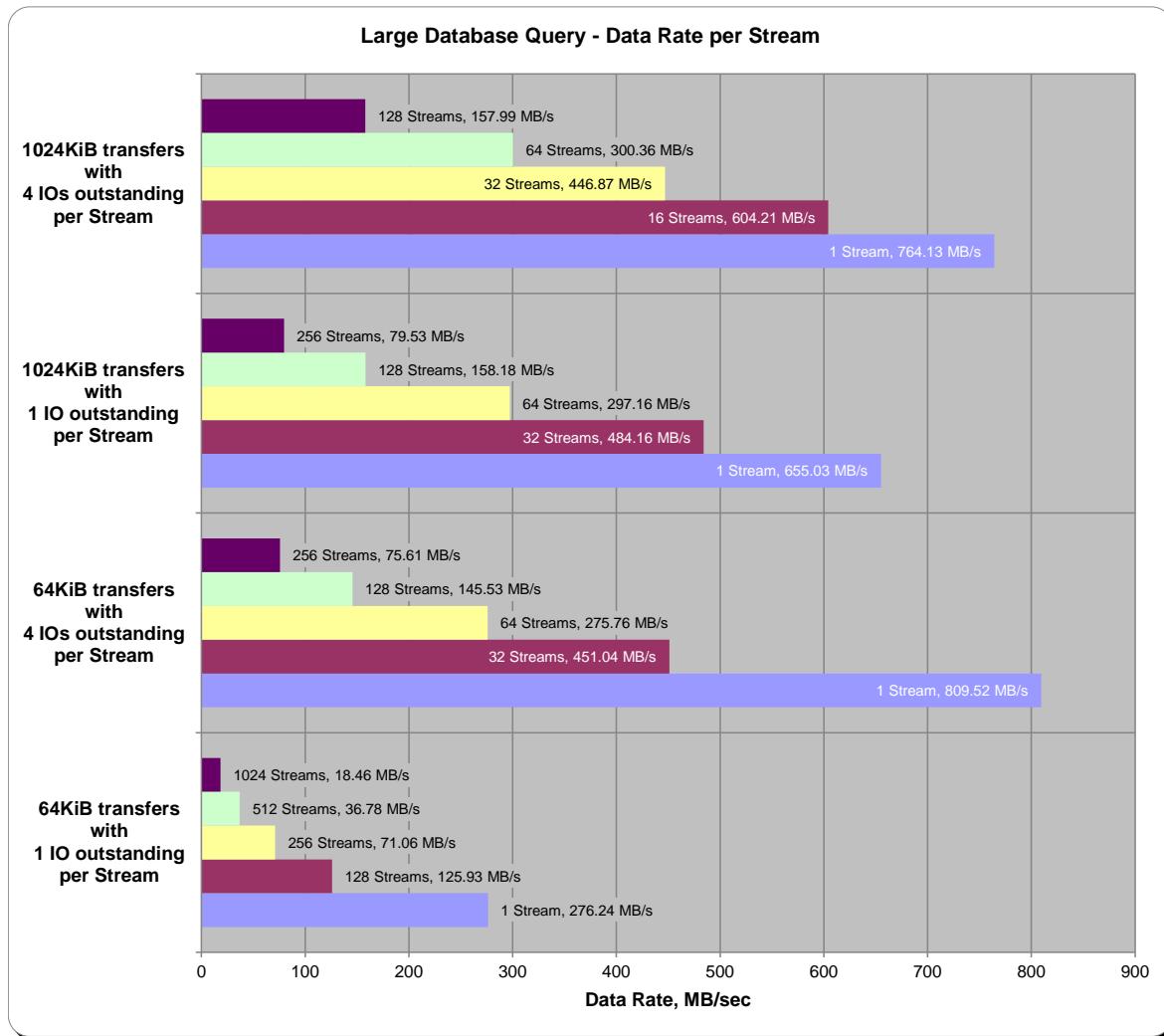


SPC-2 Large Database Query Average Data Rate per Stream

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	16 Streams	32 Streams	64 Streams	128 Streams
1024KiB w/ 4 IOs/Stream	764.13	604.21	446.87	300.36	157.99
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 1 IO/Stream	655.03	484.16	297.16	158.18	79.53
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
64KiB w/ 4 IOs/Stream	809.52	451.04	275.76	145.53	75.61
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
64KiB w/ 1 IO/Stream	276.24	125.93	71.06	36.78	18.46

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

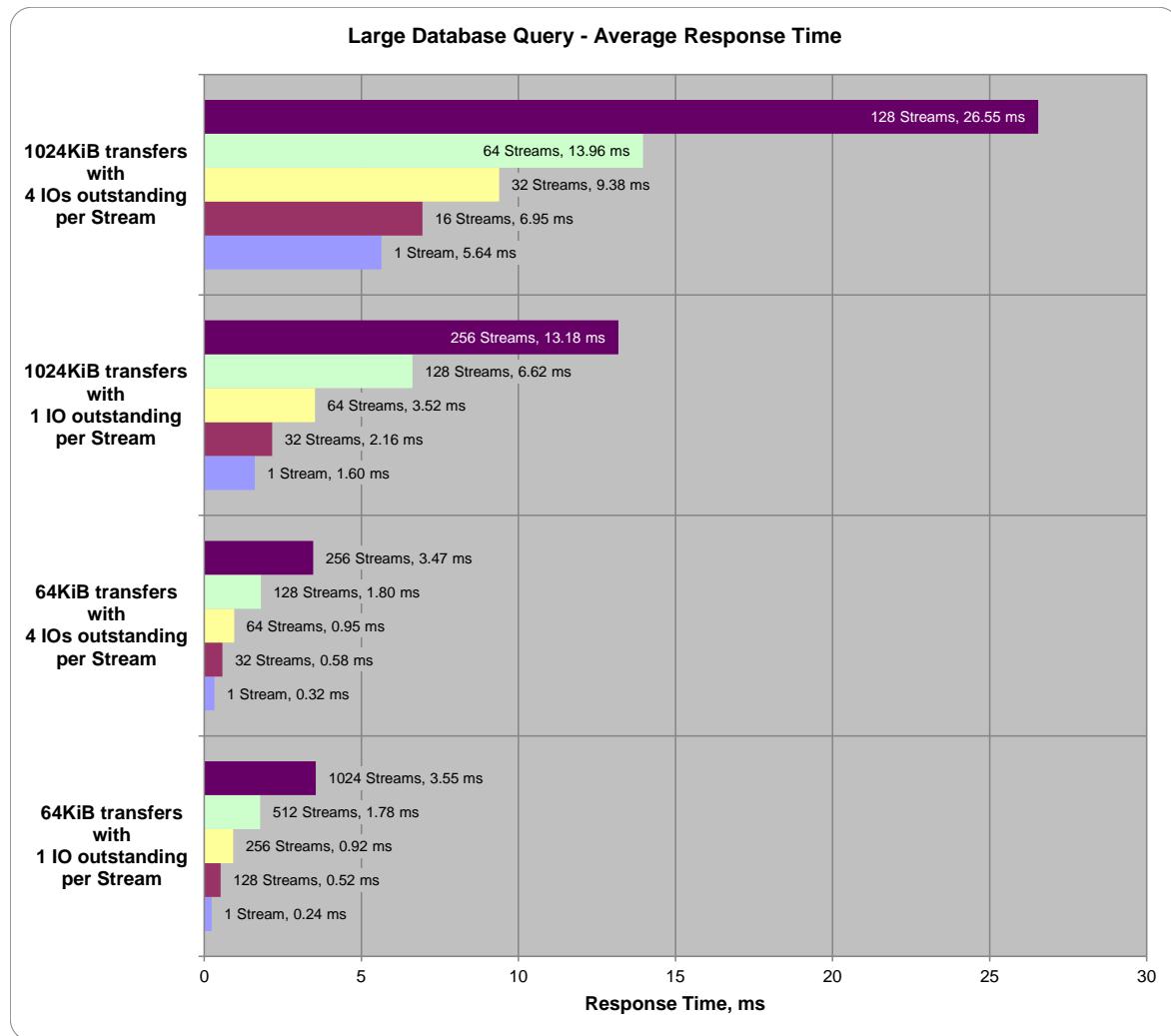


SPC-2 Large Database Query Average Response Time

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	16 Streams	32 Streams	64 Streams	128 Streams
1024KiB w/ 4 IOs/Stream	5.64	6.95	9.38	13.96	26.55
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
1024KiB w/ 1 IO/Stream	1.60	2.16	3.52	6.62	13.18
Test Run Sequence	1 Stream	32 Streams	64 Streams	128 Streams	256 Streams
64KiB w/ 4 IOs/Stream	0.32	0.58	0.95	1.80	3.47
Test Run Sequence	1 Stream	128 Streams	256 Streams	512 Streams	1024 Streams
64KiB w/ 1 IO/Stream	0.24	0.52	0.92	1.78	3.55

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 [133](#).

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	24,500
Ramp-up Time, sec	7,200
Measurement Interval, sec	7,200
Average Data Rate, MB/sec	19,267.55
Per Stream Data Rate, MB/sec	0.79
Average Response Time, ms	5.72
Average Max Response Time, ms	304.51

Video on Demand Delivery Test – TEST RUN DATA BY INTERVAL

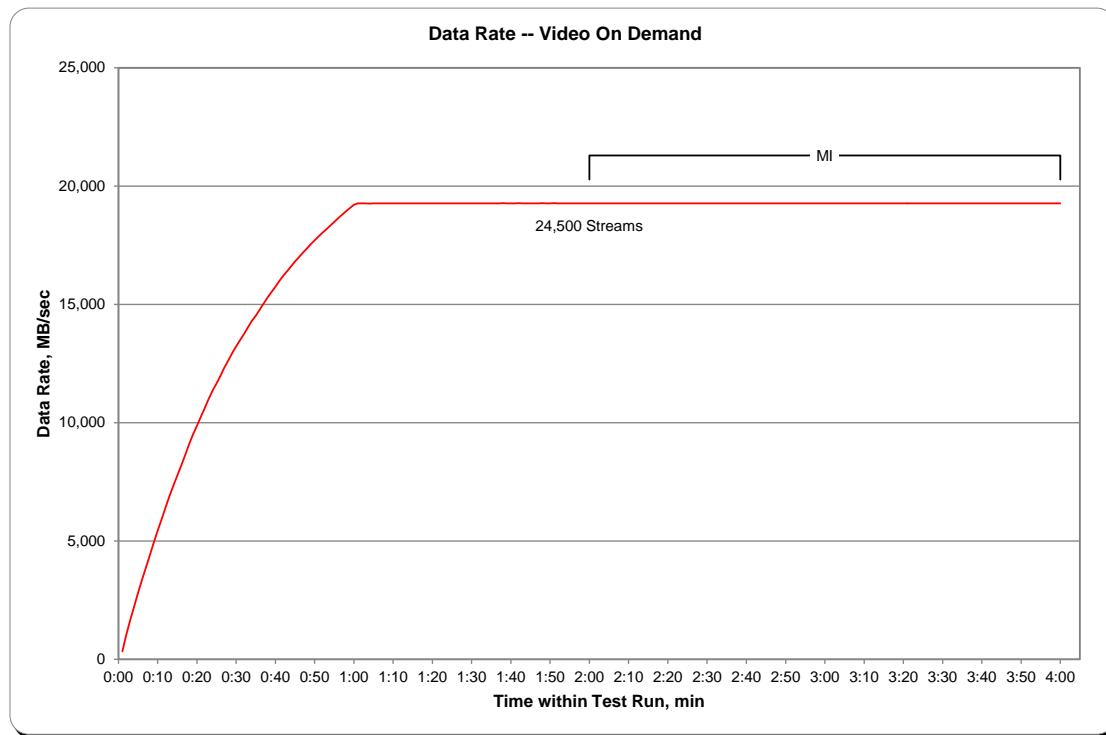
The SPC-2 Video on Demand Delivery Test Run data is contained in the table that appears below. That table is followed by graphs illustrating the average Data Rate and average Data Rate per Stream produced by the same Test Runs. The table and graphs present the data at sixty second intervals.

Test Run Sequence Time	24,500 Streams				Test Run Sequence Time	24,500 Streams				Test Run Sequence Time	24,500 Streams			
	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Maximum Response Time, ms		Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Maximum Response Time, ms		Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Maximum Response Time, ms
0:01:00	331.22	0.67	1.92	54.55	0:41:00	15,985.81	0.79	4.50	249.24	1:21:00	19,267.87	0.79	5.85	307.01
0:02:00	1,028.52	0.76	2.37	175.02	0:42:00	16,208.44	0.79	4.55	278.37	1:22:00	19,267.27	0.79	5.89	323.21
0:03:00	1,640.74	0.77	2.71	224.68	0:43:00	16,407.77	0.79	4.59	248.70	1:23:00	19,266.68	0.79	5.90	292.46
0:04:00	2,235.47	0.78	2.90	137.82	0:44:00	16,605.76	0.79	4.59	156.79	1:24:00	19,268.10	0.79	5.89	302.73
0:05:00	2,814.27	0.78	3.01	122.08	0:45:00	16,811.26	0.79	4.64	165.38	1:25:00	19,266.50	0.79	5.93	312.87
0:06:00	3,346.79	0.78	2.98	86.61	0:46:00	16,988.80	0.79	4.69	165.79	1:26:00	19,267.47	0.79	5.95	307.18
0:07:00	3,860.24	0.78	2.98	70.80	0:47:00	17,188.93	0.79	4.74	173.33	1:27:00	19,268.08	0.79	5.92	324.33
0:08:00	4,399.49	0.78	3.06	93.25	0:48:00	17,355.90	0.79	4.80	163.48	1:28:00	19,268.90	0.79	5.91	300.59
0:09:00	4,931.20	0.78	3.15	250.52	0:49:00	17,536.75	0.79	4.86	176.83	1:29:00	19,267.70	0.79	5.86	310.83
0:10:00	5,425.96	0.78	3.22	437.26	0:50:00	17,701.67	0.79	4.92	204.95	1:30:00	19,268.34	0.79	5.83	272.46
0:11:00	5,901.06	0.78	3.31	479.10	0:51:00	17,878.51	0.79	4.97	184.75	1:31:00	19,270.28	0.79	5.86	299.31
0:12:00	6,418.54	0.78	3.67	466.46	0:52:00	18,033.77	0.79	5.07	194.53	1:32:00	19,267.99	0.79	5.84	292.93
0:13:00	6,900.09	0.78	3.52	500.71	0:53:00	18,170.65	0.79	5.11	201.33	1:33:00	19,268.31	0.79	5.83	275.21
0:14:00	7,325.70	0.78	3.49	437.86	0:54:00	18,327.03	0.79	5.21	198.29	1:34:00	19,267.88	0.79	5.80	264.35
0:15:00	7,752.80	0.78	3.55	447.21	0:55:00	18,490.97	0.79	5.44	230.88	1:35:00	19,267.25	0.79	5.77	259.53
0:16:00	8,192.10	0.78	3.55	415.97	0:56:00	18,642.86	0.79	5.46	226.49	1:36:00	19,264.45	0.79	5.78	314.06
0:17:00	8,629.42	0.78	3.60	365.44	0:57:00	18,784.61	0.79	5.53	236.82	1:37:00	19,271.00	0.79	5.74	248.66
0:18:00	9,078.47	0.78	3.66	351.76	0:58:00	18,933.94	0.79	5.66	275.01	1:38:00	19,272.77	0.79	5.75	282.61
0:19:00	9,493.50	0.78	3.83	269.97	0:59:00	19,070.23	0.79	5.76	278.13	1:39:00	19,268.38	0.79	5.78	297.36
0:20:00	9,874.39	0.78	3.81	298.97	1:00:00	19,207.52	0.79	6.04	399.63	1:40:00	19,268.48	0.79	5.79	372.91
0:21:00	10,248.09	0.78	3.91	248.86	1:01:00	19,270.85	0.79	6.07	428.78	1:41:00	19,266.05	0.79	5.84	380.27
0:22:00	10,613.22	0.79	3.81	165.04	1:02:00	19,267.25	0.79	6.06	468.82	1:42:00	19,271.73	0.79	5.79	326.63
0:23:00	10,994.29	0.79	3.88	225.36	1:03:00	19,264.34	0.79	6.08	448.80	1:43:00	19,267.76	0.79	5.85	382.59
0:24:00	11,357.02	0.79	3.87	156.46	1:04:00	19,255.82	0.79	6.05	475.51	1:44:00	19,268.24	0.79	5.89	438.86
0:25:00	11,654.36	0.79	3.89	159.91	1:05:00	19,268.90	0.79	6.06	384.59	1:45:00	19,268.56	0.79	5.86	362.99
0:26:00	11,978.03	0.79	3.96	178.47	1:06:00	19,269.29	0.79	5.97	393.24	1:46:00	19,263.96	0.79	5.86	433.05
0:27:00	12,321.99	0.79	3.96	138.28	1:07:00	19,268.27	0.79	6.00	356.09	1:47:00	19,268.90	0.79	5.87	364.49
0:28:00	12,636.39	0.79	3.99	138.72	1:08:00	19,267.53	0.79	5.97	330.62	1:48:00	19,271.91	0.79	5.86	352.42
0:29:00	12,939.20	0.79	4.02	138.08	1:09:00	19,267.08	0.79	5.94	288.18	1:49:00	19,266.73	0.79	5.85	312.59
0:30:00	13,222.13	0.79	4.04	112.14	1:10:00	19,263.42	0.79	5.99	400.88	1:50:00	19,268.62	0.79	5.84	273.77
0:31:00	13,476.91	0.79	4.10	142.35	1:11:00	19,270.44	0.79	5.94	336.49	1:51:00	19,274.08	0.79	5.87	289.15
0:32:00	13,750.20	0.79	4.13	142.82	1:12:00	19,267.09	0.79	5.95	372.69	1:52:00	19,267.98	0.79	5.90	298.91
0:33:00	14,025.16	0.79	4.15	140.32	1:13:00	19,267.84	0.79	5.92	327.55	1:53:00	19,264.13	0.79	5.91	320.01
0:34:00	14,291.77	0.79	4.18	149.01	1:14:00	19,267.49	0.79	5.87	311.51	1:54:00	19,267.63	0.79	5.85	260.02
0:35:00	14,525.73	0.79	4.24	203.69	1:15:00	19,267.22	0.79	5.87	300.55	1:55:00	19,269.81	0.79	5.85	294.42
0:36:00	14,779.84	0.79	4.32	237.69	1:16:00	19,268.49	0.79	5.84	278.51	1:56:00	19,268.29	0.79	5.89	283.48
0:37:00	15,030.84	0.79	4.34	224.02	1:17:00	19,266.19	0.79	5.81	315.41	1:57:00	19,268.02	0.79	5.82	289.81
0:38:00	15,287.46	0.79	4.39	236.66	1:18:00	19,266.69	0.79	5.83	297.23	1:58:00	19,267.97	0.79	5.92	293.34
0:39:00	15,528.21	0.79	4.52	373.45	1:19:00	19,268.83	0.79	5.85	315.36	1:59:00	19,267.14	0.79	5.98	326.21
0:40:00	15,741.22	0.79	4.46	254.11	1:20:00	19,266.38	0.79	5.89	346.30	2:00:00	19,268.02	0.79	5.97	299.53

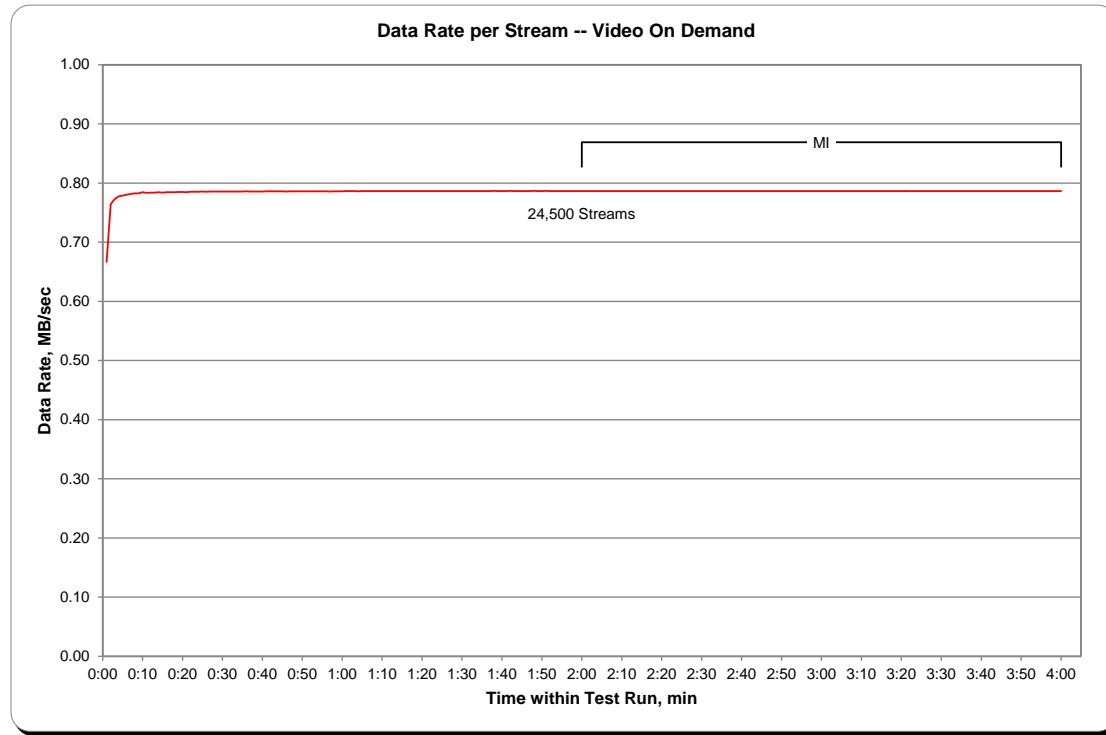
Video on Demand Delivery Test – TEST RUN DATA BY INTERVAL (CONTINUED)

TR1				24,500 Streams				TR1				24,500 Streams				TR1				24,500 Streams			
Test Run Sequence Time	Data Rate / Stream, MB/sec	Data Rate / Stream, MB/sec	Maximum Response Time, ms	Test Run Sequence Time	Data Rate / Stream, MB/sec	Data Rate / Stream, MB/sec	Maximum Response Time, ms	Test Run Sequence Time	Data Rate / Stream, MB/sec	Data Rate / Stream, MB/sec	Maximum Response Time, ms	Test Run Sequence Time	Data Rate / Stream, MB/sec	Data Rate / Stream, MB/sec	Maximum Response Time, ms	Test Run Sequence Time	Data Rate / Stream, MB/sec	Data Rate / Stream, MB/sec	Maximum Response Time, ms				
2:01:00	19,267.17	0.79	6.02	349.86	2:41:00	19,267.99	0.79	5.81	344.05	3:21:00	19,267.46	0.79	5.69	274.36	3:27:00	19,266.12	0.79	5.79	318.74				
2:02:00	19,266.60	0.79	6.06	370.20	2:42:00	19,268.52	0.79	5.76	272.68	3:22:00	19,269.16	0.79	5.80	283.13	3:28:00	19,267.85	0.79	5.79	308.03				
2:03:00	19,267.78	0.79	6.14	410.34	2:43:00	19,267.57	0.79	5.76	288.18	3:23:00	19,264.62	0.79	5.84	319.45	3:29:00	19,266.72	0.79	5.74	326.31				
2:04:00	19,267.53	0.79	6.05	405.76	2:44:00	19,266.50	0.79	5.75	312.51	3:24:00	19,266.63	0.79	5.83	330.73	3:30:00	19,266.88	0.79	5.88	342.62				
2:05:00	19,267.93	0.79	5.97	346.87	2:45:00	19,267.14	0.79	5.80	363.72	3:25:00	19,268.77	0.79	5.81	321.52	3:36:00	19,265.88	0.79	5.81	324.90				
2:06:00	19,267.97	0.79	5.94	297.35	2:46:00	19,266.95	0.79	5.79	374.32	3:26:00	19,265.88	0.79	5.79	318.74	3:37:00	19,266.12	0.79	5.79	318.74				
2:07:00	19,267.37	0.79	5.85	288.45	2:47:00	19,269.02	0.79	5.78	375.74	3:27:00	19,266.12	0.79	5.79	308.03	3:38:00	19,267.85	0.79	5.79	308.03				
2:08:00	19,268.49	0.79	5.80	255.31	2:48:00	19,270.19	0.79	5.81	387.09	3:28:00	19,267.85	0.79	5.74	326.31	3:39:00	19,266.72	0.79	5.74	326.31				
2:09:00	19,268.82	0.79	5.80	300.78	2:49:00	19,267.78	0.79	5.88	378.63	3:30:00	19,266.88	0.79	5.71	324.90	3:40:00	19,267.65	0.79	5.62	250.56				
2:10:00	19,265.74	0.79	5.83	289.79	2:50:00	19,265.17	0.79	5.79	357.52	3:31:00	19,268.50	0.79	5.71	275.67	3:41:00	19,266.44	0.79	5.59	241.28				
2:11:00	19,267.32	0.79	5.81	304.80	2:51:00	19,264.67	0.79	5.82	341.82	3:32:00	19,267.63	0.79	5.58	262.64	3:42:00	19,269.78	0.79	5.57	256.85				
2:12:00	19,268.35	0.79	5.83	284.21	2:52:00	19,267.49	0.79	5.88	351.48	3:33:00	19,266.74	0.79	5.67	270.00	3:43:00	19,268.38	0.79	5.56	231.33				
2:13:00	19,267.93	0.79	5.84	288.87	2:53:00	19,266.58	0.79	5.83	407.76	3:34:00	19,266.64	0.79	5.53	267.83	3:44:00	19,267.94	0.79	5.53	246.07				
2:14:00	19,267.77	0.79	5.83	295.59	2:54:00	19,267.79	0.79	5.74	260.10	3:35:00	19,267.63	0.79	5.58	239.09	3:45:00	19,269.50	0.79	5.48	239.09				
2:15:00	19,267.86	0.79	5.92	309.10	2:55:00	19,270.27	0.79	5.78	287.76	3:36:00	19,269.78	0.79	5.57	256.85	3:46:00	19,268.38	0.79	5.56	231.33				
2:16:00	19,268.86	0.79	5.89	286.51	2:56:00	19,267.69	0.79	5.79	293.59	3:37:00	19,268.50	0.79	5.53	267.83	3:47:00	19,266.44	0.79	5.53	246.07				
2:17:00	19,267.08	0.79	5.97	316.33	2:57:00	19,268.77	0.79	5.74	312.61	3:38:00	19,267.94	0.79	5.56	260.10	3:48:00	19,267.95	0.79	5.51	266.20				
2:18:00	19,268.08	0.79	5.97	306.17	2:58:00	19,266.47	0.79	5.70	282.98	3:39:00	19,265.53	0.79	5.50	240.44	3:49:00	19,266.22	0.79	5.48	281.60				
2:19:00	19,267.53	0.79	5.87	326.84	2:59:00	19,266.44	0.79	5.70	300.85	3:40:00	19,267.39	0.79	5.50	245.31	3:50:00	19,267.65	0.79	5.50	245.31				
2:20:00	19,267.27	0.79	5.85	298.89	3:00:00	19,266.23	0.79	5.65	284.42	3:41:00	19,265.11	0.79	5.51	259.86	3:51:00	19,267.95	0.79	5.48	242.59				
2:21:00	19,269.49	0.79	5.83	294.63	3:01:00	19,267.55	0.79	5.65	378.52	3:42:00	19,267.39	0.79	5.58	283.38	3:52:00	19,266.22	0.79	5.53	240.01				
2:22:00	19,267.26	0.79	5.79	276.28	3:02:00	19,267.30	0.79	5.66	410.46	3:43:00	19,267.65	0.79	5.58	240.01	3:53:00	19,269.38	0.79	5.55	340.40				
2:23:00	19,267.67	0.79	5.74	279.20	3:03:00	19,268.00	0.79	5.70	468.22	3:44:00	19,269.92	0.79	5.50	241.83	3:54:00	19,267.63	0.79	5.48	341.83				
2:24:00	19,267.60	0.79	5.72	279.16	3:04:00	19,269.70	0.79	5.65	377.53	3:45:00	19,269.20	0.79	5.53	249.67	3:55:00	19,268.38	0.79	5.53	258.22				
2:25:00	19,264.77	0.79	5.82	336.42	3:05:00	19,270.08	0.79	5.57	352.98	3:46:00	19,267.96	0.79	5.53	285.38	3:56:00	19,266.12	0.79	5.56	259.86				
2:26:00	19,266.12	0.79	5.78	297.23	3:06:00	19,270.12	0.79	5.55	300.49	3:47:00	19,266.12	0.79	5.56	259.86	3:57:00	19,266.12	0.79	5.48	242.59				
2:27:00	19,266.43	0.79	5.84	320.51	3:07:00	19,268.88	0.79	5.50	241.06	3:48:00	19,267.56	0.79	5.55	240.01	3:58:00	19,268.38	0.79	5.55	340.40				
2:28:00	19,267.76	0.79	5.94	366.36	3:08:00	19,268.71	0.79	5.52	265.38	3:49:00	19,266.12	0.79	5.48	240.01	3:59:00	19,267.95	0.79	5.48	340.40				
2:29:00	19,264.82	0.79	5.95	326.45	3:09:00	19,268.33	0.79	5.52	257.90	3:50:00	19,267.39	0.79	5.51	240.01	3:51:00	19,267.95	0.79	5.49	340.40				
2:30:00	19,268.61	0.79	5.94	336.60	3:10:00	19,268.41	0.79	5.47	272.28	3:51:00	19,267.99	0.79	5.50	340.40	3:52:00	19,267.65	0.79	5.48	340.40				
2:31:00	19,269.57	0.79	5.91	315.16	3:11:00	19,267.47	0.79	5.46	246.87	3:53:00	19,264.98	0.79	5.45	360.82	3:53:00	19,266.75	0.79	5.43	329.03				
2:32:00	19,266.81	0.79	5.85	326.71	3:12:00	19,268.52	0.79	5.56	235.34	3:54:00	19,267.60	0.79	5.48	329.52	3:54:00	19,266.55	0.79	5.52	329.52				
2:33:00	19,267.13	0.79	5.85	296.55	3:13:00	19,266.74	0.79	5.55	242.66	3:55:00	19,264.98	0.79	5.51	354.21	3:55:00	19,266.55	0.79	5.51	354.21				
2:34:00	19,267.04	0.79	5.89	328.21	3:14:00	19,267.19	0.79	5.54	229.64	3:56:00	19,267.77	0.79	5.45	329.52	3:56:00	19,266.44	0.79	5.43	329.52				
2:35:00	19,266.91	0.79	5.79	267.10	3:15:00	19,267.05	0.79	5.61	247.02	3:57:00	19,267.72	0.79	5.43	329.52	3:57:00	19,266.55	0.79	5.52	329.52				
2:36:00	19,267.80	0.79	5.82	311.99	3:16:00	19,266.43	0.79	5.54	249.84	3:58:00	19,263.85	0.79	5.41	329.52	3:58:00	19,266.55	0.79	5.41	329.52				
2:37:00	19,266.74	0.79	5.83	290.44	3:17:00	19,266.15	0.79	5.57	274.74	3:59:00	19,269.26	0.79	5.47	255.02	3:59:00	19,267.60	0.79	5.47	255.02				
2:38:00	19,270.54	0.79	5.80	306.60	3:18:00	19,266.56	0.79	5.60	250.97	3:59:00	19,269.26	0.79	5.47	255.02	3:59:00	19,267.60	0.79	5.47	255.02				
2:39:00	19,269.06	0.79	5.78	303.75	3:19:00	19,267.57	0.79	5.63	254.64	3:59:00	19,269.26	0.79	5.47	255.02	3:59:00	19,267.60	0.79	5.47	255.02				
2:40:00	19,267.50	0.79	5.81	265.23	3:20:00	19,263.49	0.79	5.63	267.04	4:00:00	19,267.60	0.79	5.47	248.58	4:00:00	19,267.60	0.79	5.47	248.58				

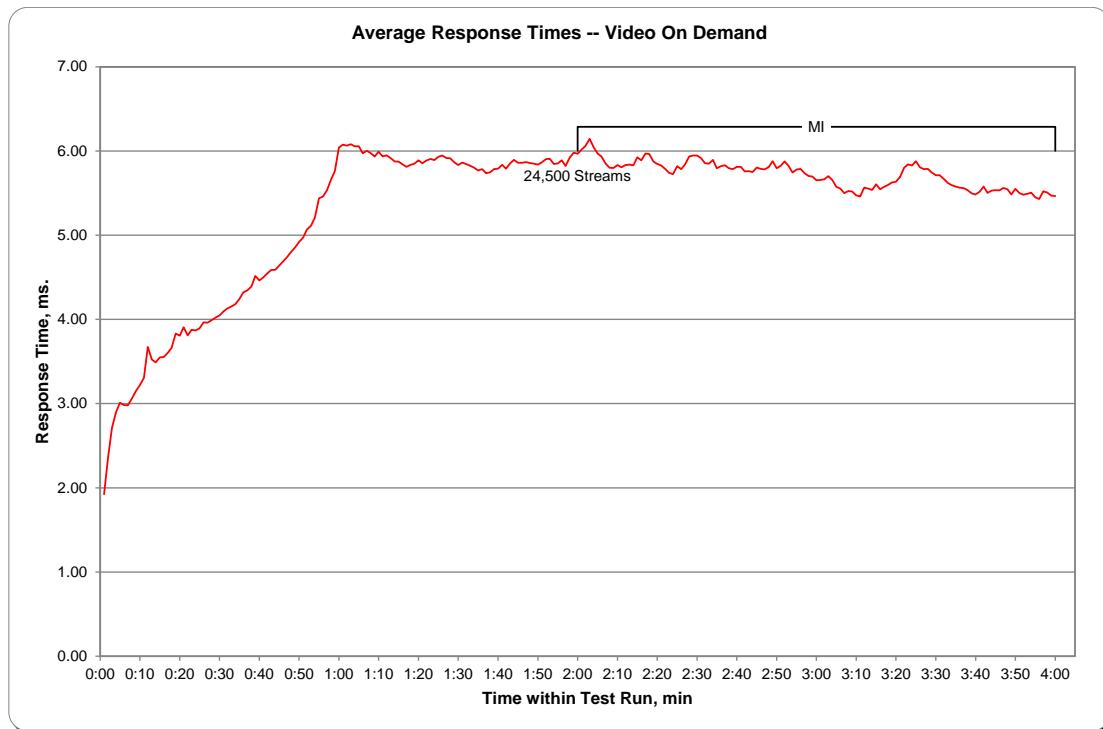
SPC-2 Video on Demand Delivery Average Data Rate Graph



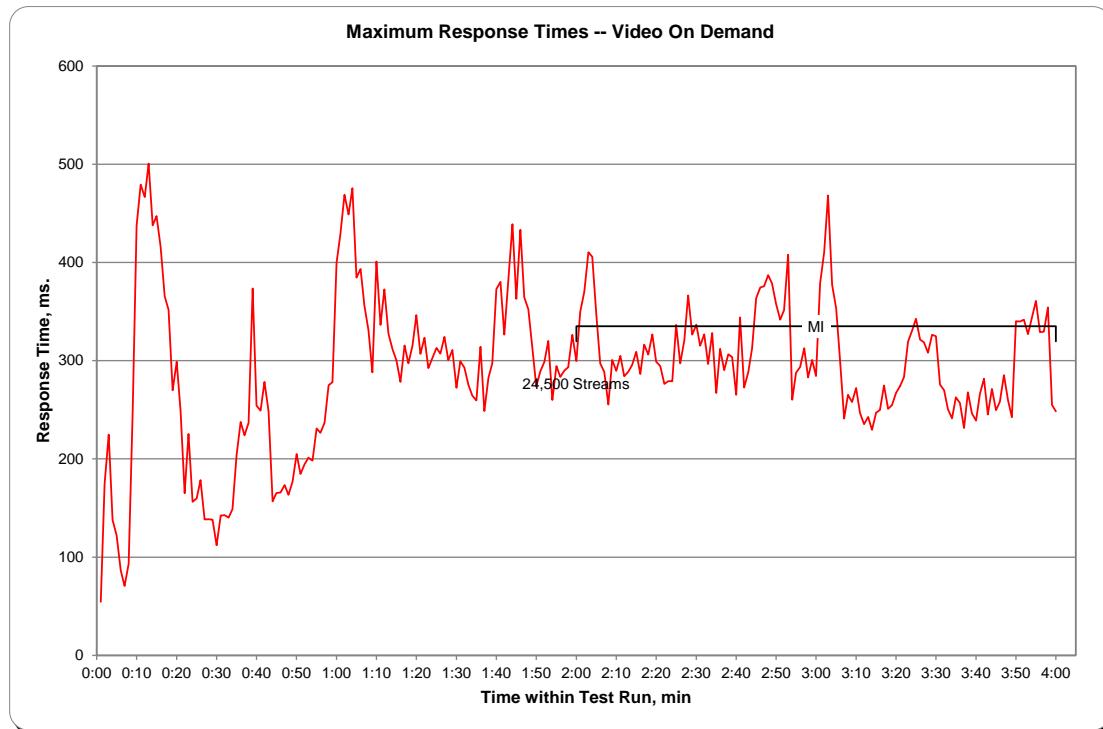
SPC-2 Video on Demand Delivery Average Data Rate per Stream Graph



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 maintaining 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 [133](#).

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 Results File](#)

[Persistence 2 Test Run Results File](#)

Data Persistence Test Results

Data Persistence Test Results	
Data Persistence Test Number: 1	
Total Number of Logical Blocks Written	4,379,299
Total Number of Logical Blocks Re-referenced	304,416
Total Number of Logical Blocks Verified	4,074,883
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 ZS3-4, as documented in this SPC-2 Full Disclosure Report, will become available on November 5, 2013 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 ZS3-4.

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: T₀-T₅ and Test Run 2: T₅-T₁₀*).

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:

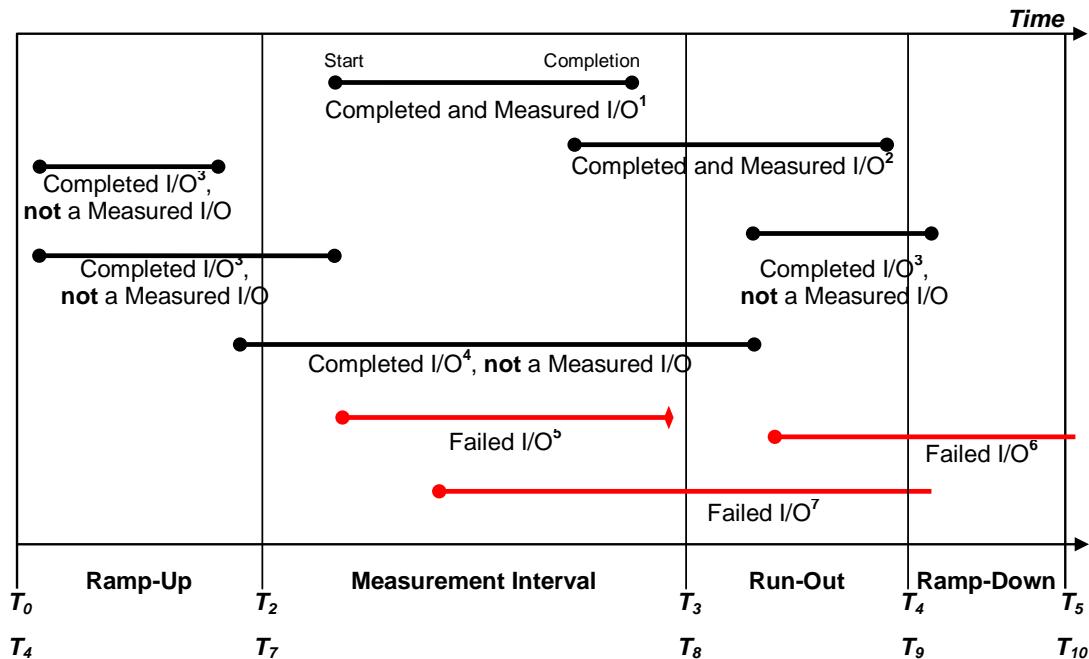
- Test Run 1: Maximum number of Streams, which is selected by the Test Sponsor
- Test Run 2: 50% of the maximum number of Streams used in Test Run 1.
- Test Run 3: 25% of the maximum number of Streams used in Test Run 1.
- Test Run 4: 12.5% of the maximum number of Streams used in Test Run 1.
- Test 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/O¹: I/O started and completed within the Measurement Interval.

Completed and Measured I/O²: I/O started within the Measurement Interval and completed within Ramp Down.

Completed I/O³: I/O started before or after the Measurement Interval – not measured.

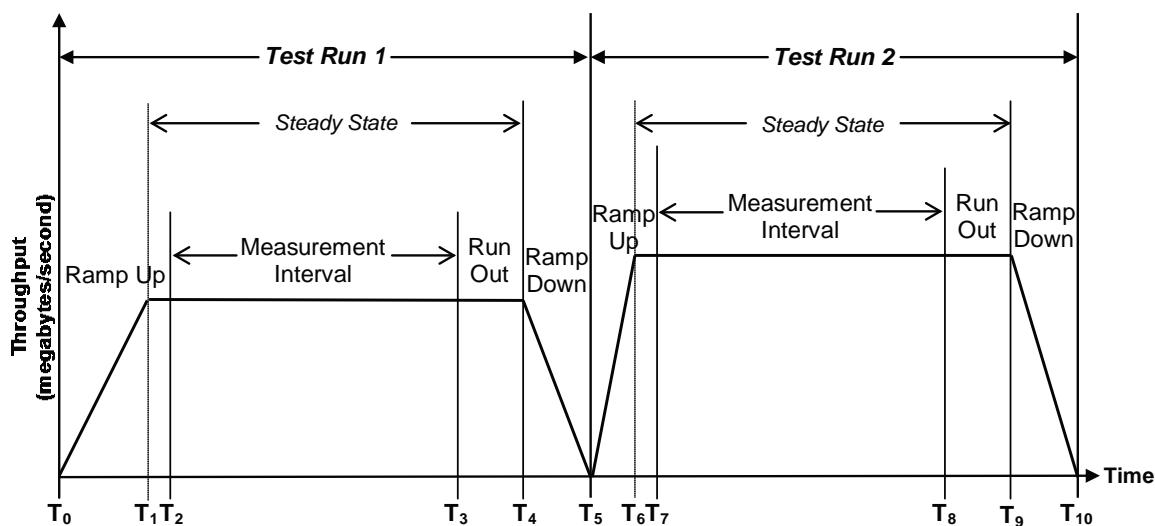
Completed I/O⁴: I/O started before and completed after the Measurement Interval – not measured.

Failed I/O⁵: Signaled as failed by System Software.

Failed I/O⁶: I/O did not complete prior to the end of Ramp-Down.

Failed I/O⁷: 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

APPENDIX C: TESTED STORAGE CONFIGURATION (TSC) CREATION

Assign Host Names and IP Addresses

The Oracle ZFS Storage ZS3-4 is shipped with Quick Start instruction that provide details for assigning host names, IP addresses and Clustron cards. The Clustron cards support communication between storage controllers.

Configure the Tested Storage Configuration (TSC)

The Oracle ZFS Storage ZS3-4 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. All referenced scripts appear at the end of this section.

Build the 7420 Cluster

The script, [Build-16T-Cluster.sh](#), will invoke scripts to:

- Build RAID pools on each controller
- Create 128 volumes on each controller, 16 per pool
- Format and align LUNS
- Create all disk listing and parameter files

Build RAID Pools

The script, [build_16T_16P.sh](#) will create eight RAID Mirror Pools per controller. Each of the pools is a 11+11 with 2 spares.

Create Volumes

The script, [Build-Vols-7420M2-Cluster.sh](#), will invoke the script [build-vols.sh](#) and will create 128 volumes on each controller. All 256 volumes are accessible by both controllers.

Format and Align LUNs

The script, [Label-64bit-Multi-Host.sh](#), uses the Solaris internal **zpool** command to create one default partition and label consisting of the entire volume then the **format** command is used to align and start all volumes on Sector 2048, it then uses [ldq-custom.txt](#) and [lfp-custom.txt](#) to create SPC-2 parameter files and will invoke [Get_Hardware_list.sh](#), which will invoke [get_luns.sh](#) and [get_hw.sh](#) to create a volume listing from the two controllers. 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.sh**](#):

- **A-head_hw_list.txt:** Physical hardware list from the A controller of the 7420 cluster
- **B-head_hw_list.txt:** Physical hardware list from the B controller of the 7420 cluster
- **7420_Cluster_Lun_List.txt:** Logical Volume listing from the 7420 cluster
- **disklist.txt:** Logical volume listing form 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-SH.txt:** SPC-2 VOD parameter file
- **spc2-ldq-SH.txt:** SPC-2 LDQ parameter file
- **spc2-lfp-SH.txt:** SPC-2 LFP parameter file
- **spc2-persist1-SH.txt:** SPC-2 Persist 1 parameter file
- **spc2-persist2-SH.txt:** SPC-2 Persist 2 parameter file

Referenced Scripts

Build-16T-Cluster.sh

```
#!/bin/bash
#
# Builds SPC2 7420M2 a/b cluster 7-25-13
#
#
clear
banner " Building"
echo ""
banner " SPC2 7420"
echo ""
banner " Cluster"
echo ""
echo " Please wait"
echo ""

# Remove all 16 pools from both 7420 heads and build new pools
Build_16T_16P.sh
clear
echo ""
echo " Please wait"
echo ""

# Remove old volumes add new volumes
devfsadm -C ; devfsadm
clear
echo ""
echo " Please wait"
echo ""
#
# Create volumes on all 16 pools on Both heads
Build-Vols-7420M2-Cluster.sh
clear
echo "done"
echo " Please wait"
echo ""
#
```

```
#  
# Remove old volumes and add new volumes  
cfgadm -la ;devfsadm -C ; devfsadm  
clear  
echo " "  
echo " Please wait"  
echo " "  
  
#  
# Label new volumes and create all Parameters files  
Label-64bit-Multi-Host.sh
```

build_16T_16P.sh

```
#!/bin/bash  
#  
# Build four pools on a 12-tray 7000 for SPC2  
# Assumption is 4 pools currently present  
#  
  
#  
A_HEAD=sbm-7420m2a  
B_HEAD=sbm-7420m2b  
  
echo "Tesing connectivity to $A_HEAD..."  
echo "Tesing connectivity to $B_HEAD..."  
  
# Check that host is up  
ping $A_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 $B_HEAD > /dev/null  
if [ $? = 1 ]  
then  
    echo "Unable to contact appliance. Please check hostname and network  
connectivity."  
    exit  
fi  
# Reboot both heads  
:<<'COMMENT'  
echo "Rebooting the B Head."  
ssh -T root@$B_HEAD <<EOF  
script  
    run('maintenance system');  
    run('confirm reboot');  
    run('done');  
EOF  
sleep 60  
#:COMMENT  
#:<<'COMMENT'  
echo "Rebooting the A Head."  
ssh -T root@$A_HEAD <<EOF  
script  
    run('maintenance system');  
    run('confirm reboot');  
    run('done');
```

```
EOF
sleep 900
#COMMENT
sleep 2

# Performing a failback of Head A
#:<<'COMMENT'
echo "Performing a failback of Head A from Head B"
ssh -T root@$B_HEAD <<EOF
script
    run('configuration cluster');
    run('confirm failback');
    run('done');

EOF
sleep 300
#COMMENT
# Reboot both heads
#:<<'COMMENT'
echo "Rebooting the B Head."
ssh -T root@$B_HEAD <<EOF
script
    run('maintenance system');
    run('confirm reboot');
    run('done');

EOF
sleep 60
#COMMENT
#:<<'COMMENT'
echo "Rebooting the A Head."
ssh -T root@$A_HEAD <<EOF
script
    run('maintenance system');
    run('confirm reboot');
    run('done');

EOF
sleep 900
#COMMENT
sleep 2

# Performing a failback of Head A
#:<<'COMMENT'
echo "Performing a failback of Head A from Head B"
ssh -T root@$B_HEAD <<EOF
script
    run('configuration cluster');
    run('confirm failback');
    run('done');

EOF
sleep 300
COMMENT

#:<<'COMMENT'
echo "Removing old pools..."
ssh -T root@$A_HEAD <<EOF
script
    run('configuration storage');
    run('unconfig pool5');
    run('confirm done');
    run('done');
    run('configuration storage');
    run('unconfig pool6');
    run('confirm done');
    run('done');


```

```
run('configuration storage');
run('unconfig pool9');
run('confirm done');
run('done');
run('configuration storage');
run('unconfig pool10');
run('confirm done');
run('done');
run('configuration storage');
run('unconfig pool13');
run('confirm done');
run('done');
run('configuration storage');
run('unconfig pool14');
run('confirm done');
run('done');
run('configuration storage');
run('unconfig pool15');
run('confirm done');
run('done');
run('configuration storage');
run('unconfig pool16');
run('confirm done');
run('done');

EOF
#COMMENT

# Check that host is up
echo "Testing connectivity to $B_HEAD..."
ping $B_HEAD > /dev/null
if [ $? = 1 ]
then
    echo "Unable to contact appliance. Please check hostname and network
connectivity."
fi

#:<<'COMMENT'
echo "Removing old pools..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('unconfig pool1');
    run('confirm done');
    run('done');
    run('configuration storage');
    run('unconfig pool2');
    run('confirm done');
    run('done');
    run('configuration storage');
    run('unconfig pool3');
    run('confirm done');
    run('done');
    run('configuration storage');
    run('unconfig pool4');
    run('confirm done');
    run('done');
    run('configuration storage');
    run('unconfig pool7');
    run('confirm done');
    run('done');
    run('configuration storage');
    run('unconfig pool8');
    run('confirm done');
```

```
run('done');
run('configuration storage');
run('unconfig pool11');
run('confirm done');
run('done');
run('configuration storage');
run('unconfig pool12');
run('confirm done');
run('done');

EOF
#COMMENT
#exit
sleep 10
#:<<'COMMENT'
echo "Building pool 1..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('config pool1');
    run('set 1-data=24');
    run('done');
    run('set profile=mirror');
    run('done');
    run('done');
EOF

sleep 15

echo "Building pool 2..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('config pool2');
    run('set 2-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF

#exit
sleep 15

echo "Building pool 3..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('config pool3');
    run('set 3-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF

sleep 15

echo "Building pool 4..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('config pool4');
    run('set 4-data=24');
```

```
run('done');
run('set profile=mirror');
run('confirm done');
run('done');
EOF

sleep 15

echo "Building pool 5..."
ssh -T root@$A_HEAD <<EOF
script
    run('configuration storage');
    run('config pool5');
    run('set 5-data=24');
    run('done');
    run('set profile=mirror');
    run('done');
    run('done');
EOF

sleep 15

echo "Building pool 6..."
ssh -T root@$A_HEAD <<EOF
script
    run('configuration storage');
    run('config pool6');
    run('set 6-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF

sleep 15

echo "Building pool 7..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('config pool7');
    run('set 7-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF

sleep 15

echo "Building pool 8..."
ssh -T root@$B_HEAD <<EOF
script
    run('configuration storage');
    run('config pool8');
    run('set 8-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF

sleep 15
```

```
echo "Building pool 9..."  
ssh -T root@$A_HEAD <<EOF  
script  
    run('configuration storage');  
    run('config pool9');  
    run('set 9-data=24');  
    run('done');  
    run('set profile=mirror');  
    run('confirm done');  
    run('done');  
EOF  
  
sleep 15  
  
echo "Building pool 10..."  
ssh -T root@$A_HEAD <<EOF  
script  
    run('configuration storage');  
    run('config pool10');  
    run('set 10-data=24');  
    run('done');  
    run('set profile=mirror');  
    run('confirm done');  
    run('done');  
EOF  
  
sleep 15  
  
echo "Building pool 11..."  
ssh -T root@$B_HEAD <<EOF  
script  
    run('configuration storage');  
    run('config pool11');  
    run('set 11-data=24');  
    run('done');  
    run('set profile=mirror');  
    run('confirm done');  
    run('done');  
EOF  
  
sleep 15  
  
echo "Building pool 12..."  
ssh -T root@$B_HEAD <<EOF  
script  
    run('configuration storage');  
    run('config pool12');  
    run('set 12-data=24');  
    run('done');  
    run('set profile=mirror');  
    run('confirm done');  
    run('done');  
EOF  
  
sleep 15  
  
echo "Building pool 13..."  
ssh -T root@$A_HEAD <<EOF  
script  
    run('configuration storage');  
    run('config pool13');  
    run('set 13-data=24');
```

```
run('done');
run('set profile=mirror');
run('confirm done');
run('done');
EOF

sleep 15

echo "Building pool 14..."
ssh -T root@$A_HEAD <<EOF
script
    run('configuration storage');
    run('config pool14');
    run('set 14-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF

sleep 15

echo "Building pool 15..."
ssh -T root@$A_HEAD <<EOF
script
    run('configuration storage');
    run('config pool15');
    run('set 15-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF

sleep 15

echo "Building pool 16..."
ssh -T root@$A_HEAD <<EOF
script
    run('configuration storage');
    run('config pool16');
    run('set 16-data=24');
    run('done');
    run('set profile=mirror');
    run('confirm done');
    run('done');
EOF
exit
```

Build-Vols-7420M2-Cluster.sh

```
#!/bin/bash
#
# 7-25-2013
#
# run as : #vols , volsize , volblocksize , pool-name
##      ./build-vols.sh 16 121g 1m pool# | ssh root@sbm-7420m2a.us.oracle.com

./build-vols.sh 16 116g 1m pool5 | ssh root@sbm-7420m2a
sleep 10
./build-vols.sh 16 116g 1m pool6 | ssh root@sbm-7420m2a
sleep 10
./build-vols.sh 16 116g 1m pool9 | ssh root@sbm-7420m2a
sleep 10
./build-vols.sh 16 116g 1m pool10 | ssh root@sbm-7420m2a
sleep 10
./build-vols.sh 16 116g 1m pool13 | ssh root@sbm-7420m2a
sleep 10
./build-vols.sh 16 116g 1m pool14 | ssh root@sbm-7420m2a
sleep 10
./build-vols.sh 16 116g 1m pool15 | ssh root@sbm-7420m2a
sleep 10
./build-vols.sh 16 116g 1m pool16 | ssh root@sbm-7420m2a
sleep 10

./build-vols.sh 16 116g 1m pool1 | ssh root@sbm-7420m2b
sleep 10
./build-vols.sh 16 116g 1m pool2 | ssh root@sbm-7420m2b
sleep 10
./build-vols.sh 16 116g 1m pool3 | ssh root@sbm-7420m2b
sleep 10
./build-vols.sh 16 116g 1m pool4 | ssh root@sbm-7420m2b
sleep 10
./build-vols.sh 16 116g 1m pool7 | ssh root@sbm-7420m2b
sleep 10
./build-vols.sh 16 116g 1m pool8 | ssh root@sbm-7420m2b
sleep 10
./build-vols.sh 16 116g 1m pool11 | ssh root@sbm-7420m2b
sleep 10
./build-vols.sh 16 116g 1m pool12 | ssh root@sbm-7420m2b
exit
```

build-vols.sh

```
#!/bin/bash
#
# 9-10-2010
#
# # run as : #vols , volsize , volblocksize , pool
##      ./build-vols.sh 16 121g 128k pool# | ssh root@sbm-q112-7420a.us.oracle.com
#
for ((i=1; $i <= $1; i=$i+1))
do
    echo "shares"
    echo "set pool=$4"
    echo "select default lun spc2-$i"
    echo "set volsize=$2"
    echo "set volblocksize=$3"
```

```

echo "set targetgroup=default"
echo "set initiatorgroup=default"
echo "commit"
echo "cd .."
done
#
# now we set logbias to throughput
#
echo "shares"
echo "set pool=$4"
echo "select default"
echo "set logbias=throughput"
echo "commit"
exit

```

label-64bit-multi-host.sh

```

#!/bin/ksh
#
# Script created on 07-25-13
set -x

export ZPOOL="yes" # set this to no to bypass aliagnment, this only needs tobe run
one time.

# Set SPC2 Clients
Clients="sbm-4170m2b sbm-4170m2c sbm-4170m2d sbm-4170m2e sbm-4170m2f sbm-4170m2g
sbm-4170m2h"

# Clients with default MaxStreams
FullClients="sbm-4170m2b sbm-4170m2c sbm-4170m2d sbm-4170m2e sbm-4170m2f sbm-4170m2g
sbm-4170m2h"

# Set number of JVMS
JVMS=1 # This is per slave

# SET Controller ID
Cid=c0t600144

# Set lun size
export size=115g

# Set VOD streams
VOD=24500

# 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=$PARMS/ldq-custom.txt
#LDQ=$PARMS/ldq-$STREAMS.txt

# Streams Set for LFP
#LFP=$PARMS/lfp-$STREAMS.txt
LFP=$PARMS/lfp-custom.txt

# Set Output directory

```

```
mkdir /spc/config/spc2/sbm-m2Cluster
export output=/spc/config/spc2/sbm-m2Cluster/

export NOINUSE_CHECK=1
rm disk* p*.txt spc*.txt
clear
#
banner "      SPC2 "
banner "      Config "
sleep 2
echo " "
echo "      Please wait "
echo " "
# Probe server and remove all old device links
echo " "
devfsadm -C ; cfgadm -la ; devfsadm

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 $VOD streams "
sleep 2
echo " "
clear
echo "Please wait about fifteen minutes "
sleep 2
echo " "
echo " Configuring new disks with zpool"
echo " "
echo " Configuring `ls /dev/rdsk/$Cid*d0s2 | wc -l` disks"
sleep 1
echo " "
ls /dev/rdsk/$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"
#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
$size
label
1
Y
quit
quit
EOFF
done
clear
echo " "

echo " "
echo " All `ls /dev/rdsk/$Cid*d0s2 | wc -l` disks have been configured"
echo " "
sleep 3
fi
#
echo " Now we start building all parameter files"
sleep 1
echo " "
echo " VOD is being created"
echo " "
sleep 2
# Use slice 0 instead of slice 2
cat disks | sed 's/s2/s0/g' > disk1
#cat disk1 | sed 's/c3t600/c10t600/g' > sbm-5240d
#cat disk1 | sed 's/c3t600/c8t600/g' > sbm-5240k
#
# Vod is first
touch v.txt
echo " " >> v.txt
echo "# Video on Demand Test (VOD) " >> v.txt
echo " " >> v.txt
echo "host=localhost,jvms=$JVMS,java=(java,-d64,-Xmx2048m) " >> v.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=(java,-d64,-Xmx2048m),shell=spc2 " >> v.txt
```

```

done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsVOD,jvms=$JVMS,java=(java,-d64,-
Xmx2048m),shell=spc2 " >> v.txt
done
echo "sd=default,size=$size " >> v.txt
echo " " >> v.txt
for Slave in localhost
do
counter=`ls /dev/rdsk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=$count,host=$Slave,lun=$x " >>v.txt
count=`expr $count + 1`
done
done
done
done
for Slave in $Clients
do
counter=`ls /dev/rdsk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=$count,host=$Slave,lun=$x " >>v.txt
count=`expr $count + 1`
done
done
done
done

#for Slave in sbm-5240k
#do
#counter=`ls /dev/rdsk/$Cid*d0s2 | wc -l`
#count=1
#while (test "$count" -lt "$counter")
#do
#  for x in `cat sbm-5240k`
#  do
#    echo "sd=$count,host=$Slave,lun=$x " >>v.txt
#    count=`expr $count + 1`
#  done
#done
#echo " " >>v.txt
#done

echo " " >>v.txt
echo "maxlatestart=0" >>v.txt
echo "videosegmentduration=1200" >>v.txt
echo "maxlatevod=0" >>v.txt
echo "#reportinginterval=15" >>v.txt
echo "reportinginterval=5" >>v.txt
echo " " >>v.txt
echo
"rd=default,rampup=7200,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 "# 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=4" >> pc.txt

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

echo " " >>pc.txt
echo "wd=wd1,sd=$d*,seekpct=eof,rdpct=0,xfersize=1m" >>pc.txt
echo "rd=rd1,wd=wd*,elapsed=72h,interval=60,iorate=max" >>pc.txt
#
echo "#wd=fmt,sd=$d*,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 2nd
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,-Xmx2048m) " >> p1.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=(java,-d64,-Xmx2048m),shell=spc2 " >> p1.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=(java,-d64,-
Xmx2048m),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=$d$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=$STREAMS" >>p1.txt
#
# Now we start building the persist 2 file
#
# Persist 2 is next
echo " Persist 2 file is being created"
echo " "
sleep 3
touch p2.txt
echo " " >> p2.txt
echo "# Persistence Test Run 2 " >> p2.txt
echo " " >> p2.txt
echo "host=localhost,jvms=$JVMS,java=(java,-d64,-Xmx2048m) " >> p2.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=(java,-d64,-Xmx2048m),shell=spc2 " >> p2.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=(java,-d64,-
Xmx2048m),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=$d$count,host=$Slave,lun=$x " >>p2.txt
count=`expr $count + 1`
done
done
echo " " >>p2.txt

```

```

done
#
echo " " >>p2.txt
echo "maxlatestart=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-\"$STREAMS\"_SPC-2-persist-r" >>p2.txt
# Now we start building the LDQ file
#
#
#
#
# LDQ is next
echo " LDQ file is being created"
echo " "
sleep 3
touch ldq.txt
echo " " >> ldq.txt
echo "# * Large Database Query Test (LDQ) " >> ldq.txt
echo " " >> ldq.txt
echo "host=localhost,jvms=$JVMS,java=(java,-d64,-Xmx2048m) " >> ldq.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=(java,-d64,-Xmx2048m),shell=spc2 " >> ldq.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLDQ,jvms=$JVMS,java=(java,-d64,-Xmx2048m),shell=spc2 " >> ldq.txt
done
echo "sd=default,size=$size " >> ldq.txt
echo " " >> ldq.txt

for Slave in localhost
do

counter=`ls /dev/rdsk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
do
echo "sd=$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/rdsk/$Cid*d0s2 | wc -l`
count=1
while (test "$count" -lt "$counter")
do
for x in `cat disk1`
#for x in `cat $Slave`
do

```

```

        echo "sd=$d$count,host=$Slave,lun=$x " >>ldq.txt
        count=`expr $count + 1`
    done
done
echo " " >>ldq.txt
done
echo " " >>ldq.txt
#
echo " " >>ldq.txt
echo "maxlatestart=0" >>ldq.txt
echo "reportinginterval=5" >>ldq.txt
echo "segmentlength=512m" >>ldq.txt
echo " " >>ldq.txt
echo
"rd=default,rdpct=99,rampup=180,periods=90,measurement=180,runout=45,rampdown=15"
>>ldq.txt
cat $LDQ >>ldq.txt
echo " " >>ldq.txt
# Now we start building the LFP file
#
# LFP is next
echo " LFP file is being created"
echo " "
sleep 3
touch lfp.txt
echo " " >> lfp.txt
echo "# * Large File Processing Test (LFP) " >> lfp.txt
echo " " >> lfp.txt
echo "host=localhost,jvms=$JVMS,java=(java,-d64,-Xmx2048m)" >> lfp.txt
for x in $FullClients
do
echo "host=($x),jvms=$JVMS,java=(java,-d64,-Xmx2048m),shell=spc2" >> lfp.txt
done
for x in $MaxClients
do
echo "host=($x),maxstreams=$MaxStreamsLFP,jvms=$JVMS,java=(java,-d64,-
Xmx2048m),shell=spc2" >> lfp.txt
done
echo "sd=default,size=$size" >> lfp.txt
echo " " >> lfp.txt

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

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

```

```

do
for x in `cat disk1`
#for x in `cat $Slave`
do
    echo "sd=$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=180,periods=90,measurement=180,runout=45,rampdown=15,buffers=1"
>>lfp.txt
cat $LFP >>lfp.txt
#
# LFP pre Power is next
#echo " Pre Power LFP file is being created"
echo " "
sleep 3
mv v.txt spc2-vod-SH.txt
mv pc.txt pre.txt
mv p1.txt spc2-persist1-SH.txt
mv p2.txt spc2-persist2-SH.txt
mv ldq.txt spc2-ldq-SH.txt
mv lfp.txt spc2-lfp-SH.txt
#mv post-lfp.txt spc2-post-lfp-SH.txt
#mv pre-lfp.txt spc2-pre-lfp-SH.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
# Copy all files to the config directory
echo " "
echo " All files are being copied to $output"
echo " "
sleep 3
cp * $output
echo " "
# Get a hardware and volume listing from Cluster
echo " Create Hardware and Volume list"
Get_Hardware_list.sh
echo " "
echo " "
echo " "
banner " Done Deal"
echo " "

```

ldq-custom.txt

```
* LDQ, 1024 KiB Test Phase
* Test Run Sequence 1
rd=default,xfersize=1024k,buffers=4
rd=TR1-s128_SPC-2-DQ,streams=128
rd=TR2-s64_SPC-2-DQ,streams=64
rd=TR3-s32_SPC-2-DQ,streams=32
rd=TR4-s16_SPC-2-DQ,streams=16
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-s256_SPC-2-DQ,streams=256
rd=TR12-s128_SPC-2-DQ,streams=128
rd=TR13-s64_SPC-2-DQ,streams=64
rd=TR14-s32_SPC-2-DQ,streams=32
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-s122_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-custom.txt

```
* LFP, "write" Test Phase

* Test Run Sequence 1
rd=default,rdpct=0,xfersize=1024k
rd=TR1-s1024_SPC-2-FP,streams=1024
rd=TR2-s512_SPC-2-FP,streams=512
rd=TR3-s256_SPC-2-FP,streams=256
rd=TR4-s128_SPC-2-FP,streams=128
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-s512_SPC-2-FP,streams=512
rd=TR17-s256_SPC-2-FP,streams=256
rd=TR18-s128_SPC-2-FP,streams=128
rd=TR19-s64_SPC-2-FP,streams=64
rd=TR20-s1_SPC-2-FP,streams=1

* LFP, "read" Test Phase

* Test Run Sequence 5
rd=default,rdpct=100,xfersize=1024k
rd=TR21-s128_SPC-2-FP,streams=128
rd=TR22-s64_SPC-2-FP,streams=64
rd=TR23-s32_SPC-2-FP,streams=32
rd=TR24-s16_SPC-2-FP,streams=16
rd=TR25-s1_SPC-2-FP,streams=1

* Test Run Sequence 6
rd=default,xfersize=256k
rd=TR26-s1024_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
```

get_Hardware_list.sh

```
#!/bin/bash

# To do: test and debug this rough draft

AR_HOSTNAME_A=sbm-7420m2a
AR_HOSTNAME_B=sbm-7420m2b

echo "Volume listing from Head_A" > Lun_List_Head_A.txt
echo "Volume listing from Head_B" > Lun_List_Head_B.txt

for x in 5 6 9 10 13 14 15 16
do
echo "Volume listing from Pool$x" >> Lun_List_Head_A.txt
./get_luns.sh $AR_HOSTNAME_A $x >> Lun_List_Head_A.txt
echo " " >> Lun_List_Head_A.txt
done

for x in 1 2 3 4 7 8 11 12
do
echo "Volume listing from Pool$x" >> Lun_List_Head_B.txt
./get_luns.sh $AR_HOSTNAME_B $x >> Lun_List_Head_B.txt
echo " " >> Lun_List_Head_B.txt
done

#
cat Lun_List*.txt > 7420M2_Cluster_Lun_List.txt
rm Lun_List*.txt
```

```
#  
  
. /get_hw.sh $AR_HOSTNAME_A > A-head_hw_list.txt  
. /get_hw.sh $AR_HOSTNAME_B > B-head_hw_list.txt  
#  
#
```

get_luns.sh

```
#!/bin/bash  
  
AR_HOSTNAME=$1  
POOL=$2  
  
ssh -T root@$AR_HOSTNAME <<EOF  
script  
    run('shares');  
    run('set pool=pool$POOL');  
    run('select default');  
    print(run('list lun'))  
    run('done');  
EOF  
  
exit
```

get_hw.sh

```
#!/bin/bash  
  
AR_HOSTNAME=$1  
  
# Check for proper input argument  
if [ -z $AR_HOSTNAME ]  
then  
    echo "Error: Argument required"  
    echo "Usage: $0 [Fishworks_appliance_hostname]"  
    exit  
fi  
  
# Check that host is up  
ping $AR_HOSTNAME > /dev/null  
if [ $? = 1 ]  
then  
    echo "Unable to contact appliance. Please check hostname and network  
connectivity."  
    exit  
fi  
  
#echo "Determining appliance version info..."  
  
ssh -T $AR_HOSTNAME <<EOF  
script  
    run('maintenance hardware');  
    lines = run('show');  
  
    for (i = 0; i < lines.length; i++) {  
        printf("%s", lines[i])  
    }  
EOF
```

```
run('done');  
EOF
```

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=4
sd=sd1,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285170001d0s0
sd=sd2,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285180002d0s0
sd=sd3,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285190003d0s0
sd=sd4,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851A0004d0s0
sd=sd5,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851B0005d0s0
sd=sd6,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851C0006d0s0
sd=sd7,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851D0007d0s0
sd=sd8,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851E0008d0s0
sd=sd9,lun=/dev/rdsk/c0t600144F0A9CCD188000052028520009d0s0
sd=sd10,lun=/dev/rdsk/c0t600144F0A9CCD18800005202852000Ad0s0
sd=sd11,lun=/dev/rdsk/c0t600144F0A9CCD188000052028521000Bd0s0
sd=sd12,lun=/dev/rdsk/c0t600144F0A9CCD188000052028522000Cd0s0
sd=sd13,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Dd0s0
sd=sd14,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Ed0s0
sd=sd15,lun=/dev/rdsk/c0t600144F0A9CCD188000052028525000Fd0s0
sd=sd16,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285260010d0s0
sd=sd17,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285330011d0s0
sd=sd18,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285340012d0s0
sd=sd19,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285350013d0s0
sd=sd20,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285360014d0s0
sd=sd21,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285370015d0s0
sd=sd22,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285380016d0s0
sd=sd23,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285390017d0s0
sd=sd24,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0018d0s0
sd=sd25,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0019d0s0
sd=sd26,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853B001Ad0s0
sd=sd27,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Bd0s0
sd=sd28,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Cd0s0
sd=sd29,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853E001Dd0s0
sd=sd30,lun=/dev/rdsk/c0t600144F0A9CCD188000052028540001Ed0s0
sd=sd31,lun=/dev/rdsk/c0t600144F0A9CCD188000052028541001Fd0s0
sd=sd32,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285420020d0s0
sd=sd33,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854E0021d0s0
sd=sd34,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854F0022d0s0
sd=sd35,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285510023d0s0
sd=sd36,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285520024d0s0
sd=sd37,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530025d0s0
sd=sd38,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530026d0s0
sd=sd39,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285540027d0s0
sd=sd40,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285560028d0s0
sd=sd41,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285570029d0s0
sd=sd42,lun=/dev/rdsk/c0t600144F0A9CCD188000052028557002Ad0s0
sd=sd43,lun=/dev/rdsk/c0t600144F0A9CCD188000052028558002Bd0s0
sd=sd44,lun=/dev/rdsk/c0t600144F0A9CCD188000052028559002Cd0s0
sd=sd45,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Dd0s0
sd=sd46,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Ed0s0
sd=sd47,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855C002Fd0s0
sd=sd48,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855D0030d0s0
sd=sd49,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856A0031d0s0
```

```
sd=sd50,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856B0032d0s0
sd=sd51,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856C0033d0s0
sd=sd52,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856D0034d0s0
sd=sd53,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856E0035d0s0
sd=sd54,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856F0036d0s0
sd=sd55,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285700037d0s0
sd=sd56,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285710038d0s0
sd=sd57,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285720039d0s0
sd=sd58,lun=/dev/rdsk/c0t600144F0A9CCD188000052028573003Ad0s0
sd=sd59,lun=/dev/rdsk/c0t600144F0A9CCD188000052028574003Bd0s0
sd=sd60,lun=/dev/rdsk/c0t600144F0A9CCD188000052028575003Cd0s0
sd=sd61,lun=/dev/rdsk/c0t600144F0A9CCD188000052028576003Dd0s0
sd=sd62,lun=/dev/rdsk/c0t600144F0A9CCD188000052028577003Ed0s0
sd=sd63,lun=/dev/rdsk/c0t600144F0A9CCD188000052028578003Fd0s0
sd=sd64,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285790040d0s0
sd=sd65,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285850041d0s0
sd=sd66,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285860042d0s0
sd=sd67,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880043d0s0
sd=sd68,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880044d0s0
sd=sd69,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285890045d0s0
sd=sd70,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858A0046d0s0
sd=sd71,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858B0047d0s0
sd=sd72,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0048d0s0
sd=sd73,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0049d0s0
sd=sd74,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858E004Ad0s0
sd=sd75,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858F004Bd0s0
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sd=sd77,lun=/dev/rdsk/c0t600144F0A9CCD188000052028591004Dd0s0
sd=sd78,lun=/dev/rdsk/c0t600144F0A9CCD188000052028592004Ed0s0
sd=sd79,lun=/dev/rdsk/c0t600144F0A9CCD188000052028593004Fd0s0
sd=sd80,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285940050d0s0
sd=sd81,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A10051d0s0
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sd=sd90,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AA005Ad0s0
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sd=sd92,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AC005Cd0s0
sd=sd93,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AD005Dd0s0
sd=sd94,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AF005Ed0s0
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sd=sd97,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BD0061d0s0
sd=sd98,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BE0062d0s0
sd=sd99,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BF0063d0s0
sd=sd100,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C00064d0s0
sd=sd101,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C10065d0s0
sd=sd102,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C20066d0s0
sd=sd103,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C30067d0s0
sd=sd104,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C40068d0s0
sd=sd105,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C50069d0s0
sd=sd106,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C6006Ad0s0
sd=sd107,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C7006Bd0s0
sd=sd108,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C8006Cd0s0
sd=sd109,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C9006Dd0s0
sd=sd110,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CA006Ed0s0
sd=sd111,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CB006Fd0s0
sd=sd112,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CC0070d0s0
```

```
sd=sd113,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285D90071d0s0
sd=sd114,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DA0072d0s0
sd=sd115,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DB0073d0s0
sd=sd116,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DC0074d0s0
sd=sd117,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DD0075d0s0
sd=sd118,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DD0076d0s0
sd=sd119,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DE0077d0s0
sd=sd120,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DF0078d0s0
sd=sd121,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E00079d0s0
sd=sd122,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E1007Ad0s0
sd=sd123,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E2007Bd0s0
sd=sd124,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E3007Cd0s0
sd=sd125,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E4007Dd0s0
sd=sd126,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E5007Ed0s0
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sd=sd132,lun=/dev/rdsk/c0t600144F0C62D529500005202843E0004d0s0
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sd=sd134,lun=/dev/rdsk/c0t600144F0C62D52950000520284400006d0s0
sd=sd135,lun=/dev/rdsk/c0t600144F0C62D52950000520284410007d0s0
sd=sd136,lun=/dev/rdsk/c0t600144F0C62D52950000520284420008d0s0
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sd=sd142,lun=/dev/rdsk/c0t600144F0C62D5295000052028448000Ed0s0
sd=sd143,lun=/dev/rdsk/c0t600144F0C62D5295000052028449000Fd0s0
sd=sd144,lun=/dev/rdsk/c0t600144F0C62D529500005202844A0010d0s0
sd=sd145,lun=/dev/rdsk/c0t600144F0C62D52950000520284570011d0s0
sd=sd146,lun=/dev/rdsk/c0t600144F0C62D52950000520284580012d0s0
sd=sd147,lun=/dev/rdsk/c0t600144F0C62D52950000520284590013d0s0
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sd=sd150,lun=/dev/rdsk/c0t600144F0C62D529500005202845B0016d0s0
sd=sd151,lun=/dev/rdsk/c0t600144F0C62D529500005202845C0017d0s0
sd=sd152,lun=/dev/rdsk/c0t600144F0C62D529500005202845D0018d0s0
sd=sd153,lun=/dev/rdsk/c0t600144F0C62D529500005202845E0019d0s0
sd=sd154,lun=/dev/rdsk/c0t600144F0C62D529500005202845F001Ad0s0
sd=sd155,lun=/dev/rdsk/c0t600144F0C62D5295000052028460001Bd0s0
sd=sd156,lun=/dev/rdsk/c0t600144F0C62D5295000052028461001Cd0s0
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sd=sd161,lun=/dev/rdsk/c0t600144F0C62D52950000520284710021d0s0
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sd=sd163,lun=/dev/rdsk/c0t600144F0C62D52950000520284730023d0s0
sd=sd164,lun=/dev/rdsk/c0t600144F0C62D52950000520284740024d0s0
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sd=sd171,lun=/dev/rdsk/c0t600144F0C62D529500005202847B002Bd0s0
sd=sd172,lun=/dev/rdsk/c0t600144F0C62D529500005202847C002Cd0s0
sd=sd173,lun=/dev/rdsk/c0t600144F0C62D529500005202847D002Dd0s0
sd=sd174,lun=/dev/rdsk/c0t600144F0C62D529500005202847E002Ed0s0
sd=sd175,lun=/dev/rdsk/c0t600144F0C62D529500005202847F002Fd0s0
```

```
sd=sd176,lun=/dev/rdsk/c0t600144F0C62D52950000520284800030d0s0
sd=sd177,lun=/dev/rdsk/c0t600144F0C62D529500005202848D0031d0s0
sd=sd178,lun=/dev/rdsk/c0t600144F0C62D529500005202848E0032d0s0
sd=sd179,lun=/dev/rdsk/c0t600144F0C62D529500005202848F0033d0s0
sd=sd180,lun=/dev/rdsk/c0t600144F0C62D52950000520284900034d0s0
sd=sd181,lun=/dev/rdsk/c0t600144F0C62D52950000520284910035d0s0
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sd=sd183,lun=/dev/rdsk/c0t600144F0C62D52950000520284930037d0s0
sd=sd184,lun=/dev/rdsk/c0t600144F0C62D52950000520284940038d0s0
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sd=sd197,lun=/dev/rdsk/c0t600144F0C62D52950000520284AE0045d0s0
sd=sd198,lun=/dev/rdsk/c0t600144F0C62D52950000520284AE0046d0s0
sd=sd199,lun=/dev/rdsk/c0t600144F0C62D52950000520284AF0047d0s0
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sd=sd203,lun=/dev/rdsk/c0t600144F0C62D52950000520284B3004Bd0s0
sd=sd204,lun=/dev/rdsk/c0t600144F0C62D52950000520284B4004Cd0s0
sd=sd205,lun=/dev/rdsk/c0t600144F0C62D52950000520284B5004Dd0s0
sd=sd206,lun=/dev/rdsk/c0t600144F0C62D52950000520284B6004Ed0s0
sd=sd207,lun=/dev/rdsk/c0t600144F0C62D52950000520284B7004Fd0s0
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sd=sd213,lun=/dev/rdsk/c0t600144F0C62D52950000520284C80055d0s0
sd=sd214,lun=/dev/rdsk/c0t600144F0C62D52950000520284C90056d0s0
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sd=sd220,lun=/dev/rdsk/c0t600144F0C62D52950000520284CF005Cd0s0
sd=sd221,lun=/dev/rdsk/c0t600144F0C62D52950000520284D0005Dd0s0
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sd=sd223,lun=/dev/rdsk/c0t600144F0C62D52950000520284D2005Fd0s0
sd=sd224,lun=/dev/rdsk/c0t600144F0C62D52950000520284D40060d0s0
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sd=sd226,lun=/dev/rdsk/c0t600144F0C62D52950000520284E10062d0s0
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sd=sd230,lun=/dev/rdsk/c0t600144F0C62D52950000520284E50066d0s0
sd=sd231,lun=/dev/rdsk/c0t600144F0C62D52950000520284E60067d0s0
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sd=sd234,lun=/dev/rdsk/c0t600144F0C62D52950000520284E9006Ad0s0
sd=sd235,lun=/dev/rdsk/c0t600144F0C62D52950000520284EA006Bd0s0
sd=sd236,lun=/dev/rdsk/c0t600144F0C62D52950000520284EA006Cd0s0
sd=sd237,lun=/dev/rdsk/c0t600144F0C62D52950000520284EC006Dd0s0
sd=sd238,lun=/dev/rdsk/c0t600144F0C62D52950000520284ED006Ed0s0
```

```
sd=sd239,lun=/dev/rdsk/c0t600144F0C62D52950000520284EE006Fd0s0
sd=sd240,lun=/dev/rdsk/c0t600144F0C62D52950000520284EF0070d0s0
sd=sd241,lun=/dev/rdsk/c0t600144F0C62D52950000520284FC0071d0s0
sd=sd242,lun=/dev/rdsk/c0t600144F0C62D52950000520284FD0072d0s0
sd=sd243,lun=/dev/rdsk/c0t600144F0C62D52950000520284FE0073d0s0
sd=sd244,lun=/dev/rdsk/c0t600144F0C62D52950000520284FE0074d0s0
sd=sd245,lun=/dev/rdsk/c0t600144F0C62D52950000520284FF0075d0s0
sd=sd246,lun=/dev/rdsk/c0t600144F0C62D52950000520285010076d0s0
sd=sd247,lun=/dev/rdsk/c0t600144F0C62D52950000520285020077d0s0
sd=sd248,lun=/dev/rdsk/c0t600144F0C62D52950000520285030078d0s0
sd=sd249,lun=/dev/rdsk/c0t600144F0C62D52950000520285030079d0s0
sd=sd250,lun=/dev/rdsk/c0t600144F0C62D5295000052028504007Ad0s0
sd=sd251,lun=/dev/rdsk/c0t600144F0C62D5295000052028506007Bd0s0
sd=sd252,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Cd0s0
sd=sd253,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Dd0s0
sd=sd254,lun=/dev/rdsk/c0t600144F0C62D5295000052028508007Ed0s0
sd=sd255,lun=/dev/rdsk/c0t600144F0C62D5295000052028509007Fd0s0
sd=sd256,lun=/dev/rdsk/c0t600144F0C62D529500005202850B0080d0s0

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

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

The following command/parameter lines appear in each of the command and parameter files for the Large File Processing (LFP), Large Database Query (LDQ), Video on Demand (VOD) and SPC-2 Persistence Tests. The command lines are only listed below to eliminate redundancy.

```
host=localhost,jvms=1,java=(java,-d64,-Xmx2048m)
host=(sbm-4170m2b),jvms=1,java=(java,-d64,-Xmx2048m),shell=spc2
host=(sbm-4170m2c),jvms=1,java=(java,-d64,-Xmx2048m),shell=spc2
host=(sbm-4170m2d),jvms=1,java=(java,-d64,-Xmx2048m),shell=spc2
host=(sbm-4170m2e),jvms=1,java=(java,-d64,-Xmx2048m),shell=spc2
host=(sbm-4170m2f),jvms=1,java=(java,-d64,-Xmx2048m),shell=spc2
host=(sbm-4170m2g),jvms=1,java=(java,-d64,-Xmx2048m),shell=spc2
host=(sbm-4170m2h),jvms=1,java=(java,-d64,-Xmx2048m),shell=spc2
sd=default,size=115g

sd=sd1,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285170001d0s0
sd=sd2,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285180002d0s0
sd=sd3,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285190003d0s0
sd=sd4,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851A0004d0s0
sd=sd5,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851B0005d0s0
sd=sd6,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851C0006d0s0
sd=sd7,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851D0007d0s0
sd=sd8,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851E0008d0s0
sd=sd9,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285200009d0s0
sd=sd10,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028520000Ad0s0
sd=sd11,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028521000Bd0s0
sd=sd12,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028522000Cd0s0
sd=sd13,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Dd0s0
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sd=sd15,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028525000Fd0s0
sd=sd16,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285260010d0s0
sd=sd17,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285330011d0s0
sd=sd18,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285340012d0s0
sd=sd19,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285350013d0s0
sd=sd20,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285360014d0s0
sd=sd21,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285370015d0s0
sd=sd22,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285380016d0s0
sd=sd23,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285390017d0s0
sd=sd24,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0018d0s0
sd=sd25,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0019d0s0
sd=sd26,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853B001Ad0s0
sd=sd27,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Bd0s0
sd=sd28,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Cd0s0
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sd=sd30,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028540001Ed0s0
sd=sd31,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028541001Fd0s0
sd=sd32,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285420020d0s0
sd=sd33,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854E0021d0s0
sd=sd34,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854F0022d0s0
sd=sd35,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285510023d0s0
sd=sd36,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285520024d0s0
sd=sd37,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530025d0s0
sd=sd38,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530026d0s0
sd=sd39,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285540027d0s0
sd=sd40,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285560028d0s0
sd=sd41,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285570029d0s0
sd=sd42,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028557002Ad0s0
sd=sd43,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028558002Bd0s0
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sd=sd44,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028559002Cd0s0
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sd=sd46,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Ed0s0
sd=sd47,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855C002Fd0s0
sd=sd48,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855D0030d0s0
sd=sd49,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856A0031d0s0
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sd=sd57,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285720039d0s0
sd=sd58,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028573003Ad0s0
sd=sd59,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028574003Bd0s0
sd=sd60,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028575003Cd0s0
sd=sd61,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028576003Dd0s0
sd=sd62,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028577003Ed0s0
sd=sd63,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028578003Fd0s0
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sd=sd65,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285850041d0s0
sd=sd66,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285860042d0s0
sd=sd67,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880043d0s0
sd=sd68,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880044d0s0
sd=sd69,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285890045d0s0
sd=sd70,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858A0046d0s0
sd=sd71,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858B0047d0s0
sd=sd72,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0048d0s0
sd=sd73,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0049d0s0
sd=sd74,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858E004Ad0s0
sd=sd75,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858F004Bd0s0
sd=sd76,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028590004Cd0s0
sd=sd77,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028591004Dd0s0
sd=sd78,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028592004Ed0s0
sd=sd79,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD188000052028593004Fd0s0
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sd=sd83,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A30053d0s0
sd=sd84,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A40054d0s0
sd=sd85,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60055d0s0
sd=sd86,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60056d0s0
sd=sd87,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A70057d0s0
sd=sd88,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A80058d0s0
sd=sd89,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AA0059d0s0
sd=sd90,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AA005Ad0s0
sd=sd91,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AB005Bd0s0
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sd=sd98,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BE0062d0s0
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sd=sd100,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C00064d0s0
sd=sd101,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C10065d0s0
sd=sd102,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C20066d0s0
sd=sd103,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C30067d0s0
sd=sd104,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C40068d0s0
sd=sd105,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C50069d0s0
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sd=sd107,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C7006Bd0s0
sd=sd108,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C8006Cd0s0
sd=sd109,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C9006Dd0s0
sd=sd110,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CA006Ed0s0
sd=sd111,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CB006Fd0s0
sd=sd112,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CC0070d0s0
sd=sd113,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285D90071d0s0
sd=sd114,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DA0072d0s0
sd=sd115,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DB0073d0s0
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sd=sd117,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DD0075d0s0
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sd=sd120,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DF0078d0s0
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sd=sd122,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E1007Ad0s0
sd=sd123,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E2007Bd0s0
sd=sd124,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E3007Cd0s0
sd=sd125,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E4007Dd0s0
sd=sd126,host=localhost,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E5007Ed0s0
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sd=sd138,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028444000Ad0s0
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sd=sd144,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202844A0010d0s0
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sd=sd150,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202845B0016d0s0
sd=sd151,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202845C0017d0s0
sd=sd152,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202845D0018d0s0
sd=sd153,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202845E0019d0s0
sd=sd154,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202845F001Ad0s0
sd=sd155,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028460001Bd0s0
sd=sd156,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028461001Cd0s0
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sd=sd158,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Ed0s0
sd=sd159,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Fd0s0
sd=sd160,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284640020d0s0
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sd=sd162,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284720022d0s0
sd=sd163,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284730023d0s0
sd=sd164,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284740024d0s0
sd=sd165,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284750025d0s0
sd=sd166,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284760026d0s0
sd=sd167,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284770027d0s0
sd=sd168,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284780028d0s0
sd=sd169,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284790029d0s0
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sd=sd170,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202847A002Ad0s0
sd=sd171,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202847B002Bd0s0
sd=sd172,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202847C002Cd0s0
sd=sd173,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202847D002Dd0s0
sd=sd174,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202847E002Ed0s0
sd=sd175,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202847F002Fd0s0
sd=sd176,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284800030d0s0
sd=sd177,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202848D0031d0s0
sd=sd178,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202848E0032d0s0
sd=sd179,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202848F0033d0s0
sd=sd180,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284900034d0s0
sd=sd181,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284910035d0s0
sd=sd182,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284920036d0s0
sd=sd183,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284930037d0s0
sd=sd184,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284940038d0s0
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sd=sd186,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028496003Ad0s0
sd=sd187,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028497003Bd0s0
sd=sd188,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028498003Cd0s0
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sd=sd193,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284A90041d0s0
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sd=sd195,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284AA0043d0s0
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sd=sd197,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284AE0045d0s0
sd=sd198,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284AE0046d0s0
sd=sd199,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284AF0047d0s0
sd=sd200,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B10048d0s0
sd=sd201,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B20049d0s0
sd=sd202,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B2004Ad0s0
sd=sd203,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B3004Bd0s0
sd=sd204,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B4004Cd0s0
sd=sd205,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B5004Dd0s0
sd=sd206,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B6004Ed0s0
sd=sd207,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B7004Fd0s0
sd=sd208,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284B80050d0s0
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sd=sd210,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284C50052d0s0
sd=sd211,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284C60053d0s0
sd=sd212,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284C70054d0s0
sd=sd213,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284C80055d0s0
sd=sd214,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284C90056d0s0
sd=sd215,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284CA0057d0s0
sd=sd216,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284CB0058d0s0
sd=sd217,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284CC0059d0s0
sd=sd218,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284CD005Ad0s0
sd=sd219,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284CF005Bd0s0
sd=sd220,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284CF005Cd0s0
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sd=sd222,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284D1005Ed0s0
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sd=sd227,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284E20063d0s0
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sd=sd231,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284E60067d0s0
sd=sd232,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284E70068d0s0
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sd=sd235,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284EA006Bd0s0
sd=sd236,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284EA006Cd0s0
sd=sd237,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284EC006Dd0s0
sd=sd238,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284ED006Ed0s0
sd=sd239,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284EE006Fd0s0
sd=sd240,host=localhost,lun=/dev/rdsk/c0t600144F0C62D52950000520284EF0070d0s0
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sd=sd250,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028504007Ad0s0
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sd=sd253,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Dd0s0
sd=sd254,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028508007Ed0s0
sd=sd255,host=localhost,lun=/dev/rdsk/c0t600144F0C62D5295000052028509007Fd0s0
sd=sd256,host=localhost,lun=/dev/rdsk/c0t600144F0C62D529500005202850B0080d0s0

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sd=sd2,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285180002d0s0
sd=sd3,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285190003d0s0
sd=sd4,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851A0004d0s0
sd=sd5,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851B0005d0s0
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sd=sd36,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285520024d0s0
sd=sd37,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530025d0s0
sd=sd38,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530026d0s0

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sd=sd39,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285540027d0s0
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sd=sd42,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD188000052028557002Ad0s0
sd=sd43,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD188000052028558002Bd0s0
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sd=sd100,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C00064d0s0
sd=sd101,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C10065d0s0

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sd=sd105,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C50069d0s0
sd=sd106,host=sbm-4170m2b,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C6006Ad0s0
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sd=sd26,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853B001Ad0s0
sd=sd27,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Bd0s0
sd=sd28,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Cd0s0
sd=sd29,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853E001Dd0s0
sd=sd30,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028540001Ed0s0
sd=sd31,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028541001Fd0s0
sd=sd32,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285420020d0s0
sd=sd33,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854E0021d0s0

```

```

sd=sd34,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854F0022d0s0
sd=sd35,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285510023d0s0
sd=sd36,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285520024d0s0
sd=sd37,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530025d0s0
sd=sd38,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530026d0s0
sd=sd39,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285540027d0s0
sd=sd40,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285560028d0s0
sd=sd41,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285570029d0s0
sd=sd42,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028557002Ad0s0
sd=sd43,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028558002Bd0s0
sd=sd44,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028559002Cd0s0
sd=sd45,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Dd0s0
sd=sd46,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Ed0s0
sd=sd47,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855C002Fd0s0
sd=sd48,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855D0030d0s0
sd=sd49,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856A0031d0s0
sd=sd50,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856B0032d0s0
sd=sd51,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856C0033d0s0
sd=sd52,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856D0034d0s0
sd=sd53,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856E0035d0s0
sd=sd54,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856F0036d0s0
sd=sd55,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285700037d0s0
sd=sd56,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285710038d0s0
sd=sd57,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285720039d0s0
sd=sd58,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028573003Ad0s0
sd=sd59,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028574003Bd0s0
sd=sd60,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028575003Cd0s0
sd=sd61,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028576003Dd0s0
sd=sd62,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028577003Ed0s0
sd=sd63,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028578003Fd0s0
sd=sd64,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285790040d0s0
sd=sd65,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285850041d0s0
sd=sd66,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285860042d0s0
sd=sd67,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880043d0s0
sd=sd68,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880044d0s0
sd=sd69,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285890045d0s0
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sd=sd71,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858B0047d0s0
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sd=sd73,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0049d0s0
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sd=sd75,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858F004Bd0s0
sd=sd76,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028590004Cd0s0
sd=sd77,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028591004Dd0s0
sd=sd78,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028592004Ed0s0
sd=sd79,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD188000052028593004Fd0s0
sd=sd80,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285940050d0s0
sd=sd81,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A10051d0s0
sd=sd82,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A20052d0s0
sd=sd83,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A30053d0s0
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sd=sd86,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60056d0s0
sd=sd87,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A70057d0s0
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sd=sd93,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AD005Dd0s0
sd=sd94,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AF005Ed0s0
sd=sd95,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285B0005Fd0s0
sd=sd96,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285B10060d0s0

```

```
sd=sd97,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BD0061d0s0
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sd=sd99,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BF0063d0s0
sd=sd100,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C00064d0s0
sd=sd101,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C10065d0s0
sd=sd102,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C20066d0s0
sd=sd103,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C30067d0s0
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sd=sd132,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202843E0004d0s0
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sd=sd147,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284590013d0s0
sd=sd148,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284590014d0s0
sd=sd149,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202845A0015d0s0
sd=sd150,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202845B0016d0s0
sd=sd151,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202845C0017d0s0
sd=sd152,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202845D0018d0s0
sd=sd153,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202845E0019d0s0
sd=sd154,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202845F001Ad0s0
sd=sd155,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D5295000052028460001Bd0s0
sd=sd156,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D5295000052028461001Cd0s0
sd=sd157,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D5295000052028462001Dd0s0
sd=sd158,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Ed0s0
sd=sd159,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Fd0s0
```

SPC-2 WORKLOAD GENERATOR STORAGE COMMANDS AND PARAMETERS

```

sd=sd160,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284640020d0s0
sd=sd161,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284710021d0s0
sd=sd162,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284720022d0s0
sd=sd163,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284730023d0s0
sd=sd164,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284740024d0s0
sd=sd165,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284750025d0s0
sd=sd166,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284760026d0s0
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sd=sd171,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202847B002Bd0s0
sd=sd172,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202847C002Cd0s0
sd=sd173,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202847D002Dd0s0
sd=sd174,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D529500005202847E002Ed0s0
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sd=sd181,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284910035d0s0
sd=sd182,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284920036d0s0
sd=sd183,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284930037d0s0
sd=sd184,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284940038d0s0
sd=sd185,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D52950000520284950039d0s0
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sd=sd187,host=sbm-4170m2c,lun=/dev/rdsk/c0t600144F0C62D5295000052028497003Bd0s0
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sd=sd99,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BF0063d0s0
sd=sd100,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C00064d0s0
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sd=sd109,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C9006Dd0s0
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sd=sd111,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CB006Fd0s0
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sd=sd122,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E1007Ad0s0
sd=sd123,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E2007Bd0s0
sd=sd124,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E3007Cd0s0
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sd=sd151,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D529500005202845C0017d0s0
sd=sd152,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D529500005202845D0018d0s0
sd=sd153,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D529500005202845E0019d0s0
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sd=sd158,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Ed0s0
sd=sd159,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Fd0s0
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sd=sd202,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284B2004Ad0s0
sd=sd203,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284B3004Bd0s0
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sd=sd205,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284B5004Dd0s0
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sd=sd212,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284C70054d0s0
sd=sd213,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284C80055d0s0
sd=sd214,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284C90056d0s0
sd=sd215,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284CA0057d0s0
sd=sd216,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284CB0058d0s0
sd=sd217,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284CC0059d0s0
```

SPC-2 WORKLOAD GENERATOR STORAGE COMMANDS AND PARAMETERS

```

sd=sd218,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284CD005Ad0s0
sd=sd219,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284CF005Bd0s0
sd=sd220,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284CF005Cd0s0
sd=sd221,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284D0005Dd0s0
sd=sd222,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284D1005Ed0s0
sd=sd223,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284D2005Fd0s0
sd=sd224,host=sbm-4170m2d,lun=/dev/rdsk/c0t600144F0C62D52950000520284D40060d0s0
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sd=sd5,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851B0005d0s0
sd=sd6,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851C0006d0s0
sd=sd7,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851D0007d0s0
sd=sd8,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851E0008d0s0
sd=sd9,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285200009d0s0
sd=sd10,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028520000Ad0s0
sd=sd11,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028521000Bd0s0
sd=sd12,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028522000Cd0s0
sd=sd13,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Dd0s0
sd=sd14,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Ed0s0
sd=sd15,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028525000Fd0s0
sd=sd16,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285260010d0s0
sd=sd17,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285330011d0s0
sd=sd18,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285340012d0s0
sd=sd19,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285350013d0s0
sd=sd20,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285360014d0s0
sd=sd21,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285370015d0s0
sd=sd22,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285380016d0s0
sd=sd23,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285390017d0s0

```

SPC-2 WORKLOAD GENERATOR STORAGE COMMANDS AND PARAMETERS

```

sd=sd24,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0018d0s0
sd=sd25,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0019d0s0
sd=sd26,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853B001Ad0s0
sd=sd27,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Bd0s0
sd=sd28,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Cd0s0
sd=sd29,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853E001Dd0s0
sd=sd30,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028540001Ed0s0
sd=sd31,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028541001Fd0s0
sd=sd32,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285420020d0s0
sd=sd33,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854E0021d0s0
sd=sd34,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202854F0022d0s0
sd=sd35,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285510023d0s0
sd=sd36,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285520024d0s0
sd=sd37,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530025d0s0
sd=sd38,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530026d0s0
sd=sd39,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285540027d0s0
sd=sd40,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285560028d0s0
sd=sd41,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285570029d0s0
sd=sd42,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028557002Ad0s0
sd=sd43,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028558002Bd0s0
sd=sd44,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028559002Cd0s0
sd=sd45,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Dd0s0
sd=sd46,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Ed0s0
sd=sd47,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855C002Fd0s0
sd=sd48,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855D0030d0s0
sd=sd49,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856A0031d0s0
sd=sd50,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856B0032d0s0
sd=sd51,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856C0033d0s0
sd=sd52,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856D0034d0s0
sd=sd53,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856E0035d0s0
sd=sd54,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202856F0036d0s0
sd=sd55,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285700037d0s0
sd=sd56,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285710038d0s0
sd=sd57,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285720039d0s0
sd=sd58,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028573003Ad0s0
sd=sd59,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028574003Bd0s0
sd=sd60,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028575003Cd0s0
sd=sd61,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028576003Dd0s0
sd=sd62,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028577003Ed0s0
sd=sd63,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028578003Fd0s0
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sd=sd66,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285860042d0s0
sd=sd67,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880043d0s0
sd=sd68,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880044d0s0
sd=sd69,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285890045d0s0
sd=sd70,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858A0046d0s0
sd=sd71,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858B0047d0s0
sd=sd72,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0048d0s0
sd=sd73,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0049d0s0
sd=sd74,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858E004Ad0s0
sd=sd75,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858F004Bd0s0
sd=sd76,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028590004Cd0s0
sd=sd77,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028591004Dd0s0
sd=sd78,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028592004Ed0s0
sd=sd79,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD188000052028593004Fd0s0
sd=sd80,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285940050d0s0
sd=sd81,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A10051d0s0
sd=sd82,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A20052d0s0
sd=sd83,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A30053d0s0
sd=sd84,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A40054d0s0
sd=sd85,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60055d0s0
sd=sd86,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60056d0s0

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sd=sd87,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A70057d0s0
sd=sd88,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A80058d0s0
sd=sd89,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AA0059d0s0
sd=sd90,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AA005Ad0s0
sd=sd91,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AB005Bd0s0
sd=sd92,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AC005Cd0s0
sd=sd93,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AD005Dd0s0
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sd=sd100,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C00064d0s0
sd=sd101,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C10065d0s0
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sd=sd104,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C40068d0s0
sd=sd105,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C50069d0s0
sd=sd106,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C6006Ad0s0
sd=sd107,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C7006Bd0s0
sd=sd108,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C8006Cd0s0
sd=sd109,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285C9006Dd0s0
sd=sd110,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CA006Ed0s0
sd=sd111,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CB006Fd0s0
sd=sd112,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285CC0070d0s0
sd=sd113,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285D90071d0s0
sd=sd114,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DA0072d0s0
sd=sd115,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DB0073d0s0
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sd=sd117,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DD0075d0s0
sd=sd118,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DD0076d0s0
sd=sd119,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DE0077d0s0
sd=sd120,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285DF0078d0s0
sd=sd121,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E00079d0s0
sd=sd122,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E1007Ad0s0
sd=sd123,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E2007Bd0s0
sd=sd124,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E3007Cd0s0
sd=sd125,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E4007Dd0s0
sd=sd126,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E5007Ed0s0
sd=sd127,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285E6007Fd0s0
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sd=sd131,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202843E0003d0s0
sd=sd132,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202843E0004d0s0
sd=sd133,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202843F0005d0s0
sd=sd134,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284400006d0s0
sd=sd135,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284410007d0s0
sd=sd136,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284420008d0s0
sd=sd137,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284430009d0s0
sd=sd138,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028444000Ad0s0
sd=sd139,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028445000Bd0s0
sd=sd140,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028446000Cd0s0
sd=sd141,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028447000Dd0s0
sd=sd142,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028448000Ed0s0
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sd=sd144,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202844A0010d0s0
sd=sd145,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284570011d0s0
sd=sd146,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284580012d0s0
sd=sd147,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284590013d0s0
sd=sd148,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284590014d0s0
sd=sd149,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202845A0015d0s0

```

```

sd=sd150,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202845B0016d0s0
sd=sd151,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202845C0017d0s0
sd=sd152,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202845D0018d0s0
sd=sd153,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202845E0019d0s0
sd=sd154,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D529500005202845F001Ad0s0
sd=sd155,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028460001Bd0s0
sd=sd156,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028461001Cd0s0
sd=sd157,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028462001Dd0s0
sd=sd158,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Ed0s0
sd=sd159,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Fd0s0
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sd=sd163,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284730023d0s0
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sd=sd168,host=sbm-4170m2e,lun=/dev/rdsk/c0t600144F0C62D52950000520284780028d0s0
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sd=sd80,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285940050d0s0
sd=sd81,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A10051d0s0

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sd=sd82,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A20052d0s0
sd=sd83,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A30053d0s0
sd=sd84,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A40054d0s0
sd=sd85,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60055d0s0
sd=sd86,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60056d0s0
sd=sd87,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A70057d0s0
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sd=sd245,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D52950000520284FF0075d0s0
sd=sd246,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D52950000520285010076d0s0
sd=sd247,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D52950000520285020077d0s0
sd=sd248,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D52950000520285030078d0s0
sd=sd249,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D52950000520285030079d0s0
sd=sd250,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D5295000052028504007Ad0s0
sd=sd251,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D5295000052028506007Bd0s0
sd=sd252,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Cd0s0
sd=sd253,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Dd0s0
sd=sd254,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D5295000052028508007Ed0s0
sd=sd255,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D5295000052028509007Fd0s0
sd=sd256,host=sbm-4170m2f,lun=/dev/rdsk/c0t600144F0C62D529500005202850B0080d0s0

sd=sd1,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285170001d0s0
sd=sd2,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285180002d0s0
sd=sd3,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285190003d0s0
sd=sd4,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851A0004d0s0
sd=sd5,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851B0005d0s0
sd=sd6,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851C0006d0s0
sd=sd7,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851D0007d0s0
sd=sd8,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851E0008d0s0
sd=sd9,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028520009d0s0
sd=sd10,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028520000Ad0s0
sd=sd11,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028521000Bd0s0
sd=sd12,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028522000Cd0s0
sd=sd13,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Dd0s0

```

```
sd=sd14,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Ed0s0
sd=sd15,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028525000Fd0s0
sd=sd16,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285260010d0s0
sd=sd17,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285330011d0s0
sd=sd18,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285340012d0s0
sd=sd19,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285350013d0s0
sd=sd20,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285360014d0s0
sd=sd21,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285370015d0s0
sd=sd22,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285380016d0s0
sd=sd23,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285390017d0s0
sd=sd24,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0018d0s0
sd=sd25,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853A0019d0s0
sd=sd26,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853B001Ad0s0
sd=sd27,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Bd0s0
sd=sd28,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853D001Cd0s0
sd=sd29,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202853E001Dd0s0
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sd=sd38,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285530026d0s0
sd=sd39,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285540027d0s0
sd=sd40,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285560028d0s0
sd=sd41,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285570029d0s0
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sd=sd45,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202855B002Dd0s0
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sd=sd57,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285720039d0s0
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sd=sd60,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028575003Cd0s0
sd=sd61,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028576003Dd0s0
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sd=sd64,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285790040d0s0
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sd=sd66,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285860042d0s0
sd=sd67,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880043d0s0
sd=sd68,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285880044d0s0
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sd=sd70,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858A0046d0s0
sd=sd71,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858B0047d0s0
sd=sd72,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0048d0s0
sd=sd73,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858D0049d0s0
sd=sd74,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858E004Ad0s0
sd=sd75,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD18800005202858F004Bd0s0
sd=sd76,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028590004Cd0s0
```

SPC-2 WORKLOAD GENERATOR STORAGE COMMANDS AND PARAMETERS

```

sd=sd77,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028591004Dd0s0
sd=sd78,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028592004Ed0s0
sd=sd79,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD188000052028593004Fd0s0
sd=sd80,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285940050d0s0
sd=sd81,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A10051d0s0
sd=sd82,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A20052d0s0
sd=sd83,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A30053d0s0
sd=sd84,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A40054d0s0
sd=sd85,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60055d0s0
sd=sd86,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A60056d0s0
sd=sd87,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A70057d0s0
sd=sd88,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285A80058d0s0
sd=sd89,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AA0059d0s0
sd=sd90,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285AA005Ad0s0
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sd=sd97,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285BD0061d0s0
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sd=sd137,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284430009d0s0
sd=sd138,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028444000Ad0s0
sd=sd139,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028445000Bd0s0

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sd=sd140,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028446000Cd0s0
sd=sd141,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028447000Dd0s0
sd=sd142,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028448000Ed0s0
sd=sd143,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028449000Fd0s0
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sd=sd148,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284590014d0s0
sd=sd149,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202845A0015d0s0
sd=sd150,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202845B0016d0s0
sd=sd151,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202845C0017d0s0
sd=sd152,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202845D0018d0s0
sd=sd153,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202845E0019d0s0
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sd=sd155,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028460001Bd0s0
sd=sd156,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028461001Cd0s0
sd=sd157,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028462001Dd0s0
sd=sd158,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028463001Ed0s0
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sd=sd160,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284640020d0s0
sd=sd161,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284710021d0s0
sd=sd162,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284720022d0s0
sd=sd163,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284730023d0s0
sd=sd164,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284740024d0s0
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sd=sd166,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284760026d0s0
sd=sd167,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284770027d0s0
sd=sd168,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284780028d0s0
sd=sd169,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284790029d0s0
sd=sd170,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202847A002Ad0s0
sd=sd171,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202847B002Bd0s0
sd=sd172,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202847C002Cd0s0
sd=sd173,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202847D002Dd0s0
sd=sd174,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202847E002Ed0s0
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sd=sd181,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284910035d0s0
sd=sd182,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284920036d0s0
sd=sd183,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284930037d0s0
sd=sd184,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284940038d0s0
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sd=sd199,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284AF0047d0s0
sd=sd200,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284B10048d0s0
sd=sd201,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284B20049d0s0
sd=sd202,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284B2004Ad0s0

```

```

sd=sd203,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284B3004Bd0s0
sd=sd204,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284B4004Cd0s0
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sd=sd206,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284B6004Ed0s0
sd=sd207,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D52950000520284B7004Fd0s0
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sd=sd253,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Dd0s0
sd=sd254,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028508007Ed0s0
sd=sd255,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D5295000052028509007Fd0s0
sd=sd256,host=sbm-4170m2g,lun=/dev/rdsk/c0t600144F0C62D529500005202850B0080d0s0

sd=sd1,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285170001d0s0
sd=sd2,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285180002d0s0
sd=sd3,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285190003d0s0
sd=sd4,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851A0004d0s0
sd=sd5,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851B0005d0s0
sd=sd6,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851C0006d0s0
sd=sd7,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851D0007d0s0
sd=sd8,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD18800005202851E0008d0s0

```

SPC-2 WORKLOAD GENERATOR STORAGE COMMANDS AND PARAMETERS

```

sd=sd9,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285200009d0s0
sd=sd10,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD188000052028520000Ad0s0
sd=sd11,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD188000052028521000Bd0s0
sd=sd12,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD188000052028522000Cd0s0
sd=sd13,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Dd0s0
sd=sd14,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD188000052028524000Ed0s0
sd=sd15,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD188000052028525000Fd0s0
sd=sd16,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285260010d0s0
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sd=sd59,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD188000052028574003Bd0s0
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sd=sd69,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0A9CCD1880000520285890045d0s0
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sd=sd225,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E00061d0s0
sd=sd226,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E10062d0s0
sd=sd227,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E20063d0s0
sd=sd228,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E30064d0s0
sd=sd229,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E40065d0s0
sd=sd230,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E50066d0s0
sd=sd231,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E60067d0s0
sd=sd232,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E70068d0s0
sd=sd233,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E80069d0s0
sd=sd234,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284E9006Ad0s0
sd=sd235,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284EA006Bd0s0
sd=sd236,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284EA006Cd0s0
sd=sd237,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284EC006Dd0s0
sd=sd238,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284ED006Ed0s0
sd=sd239,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284EE006Fd0s0
sd=sd240,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284EF0070d0s0
sd=sd241,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284FC0071d0s0
sd=sd242,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284FD0072d0s0
sd=sd243,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284FE0073d0s0
sd=sd244,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284FE0074d0s0
sd=sd245,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520284FF0075d0s0
sd=sd246,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520285010076d0s0
sd=sd247,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520285020077d0s0
sd=sd248,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520285030078d0s0
sd=sd249,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D52950000520285030079d0s0
sd=sd250,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D5295000052028504007Ad0s0
sd=sd251,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D5295000052028506007Bd0s0
sd=sd252,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Cd0s0
sd=sd253,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D5295000052028507007Dd0s0
sd=sd254,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D5295000052028508007Ed0s0
sd=sd255,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D5295000052028509007Fd0s0
sd=sd256,host=sbm-4170m2h,lun=/dev/rdsk/c0t600144F0C62D529500005202850B0080d0s0
```

Large File Processing Test (LFP)

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

Common Commands/Parameters – LFP, LDQ VOD and Persistence

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

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

* LFP, "write" Test Phase

* Test Run Sequence 1
rd=default,rdpct=0,xfersize=1024k
rd=TR1-s1024_SPC-2-FP,streams=1024
rd=TR2-s512_SPC-2-FP,streams=512
rd=TR3-s256_SPC-2-FP,streams=256
rd=TR4-s128_SPC-2-FP,streams=128
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-s512_SPC-2-FP,streams=512
rd=TR17-s256_SPC-2-FP,streams=256
rd=TR18-s128_SPC-2-FP,streams=128
rd=TR19-s64_SPC-2-FP,streams=64
rd=TR20-s1_SPC-2-FP,streams=1

* LFP, "read" Test Phase

* Test Run Sequence 5
rd=default,rdpct=100,xfersize=1024k
rd=TR21-s128_SPC-2-FP,streams=128
rd=TR22-s64_SPC-2-FP,streams=64
rd=TR23-s32_SPC-2-FP,streams=32
rd=TR24-s16_SPC-2-FP,streams=16
rd=TR25-s1_SPC-2-FP,streams=1

* Test Run Sequence 6
rd=default,xfersize=256k
rd=TR26-s1024_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)
```

Common Commands/Parameters – LFP, LDQ VOD and Persistence

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

rd=default,rdpct=99,rampup=180,periods=90,measurement=180,runout=45,rampdown=15
* LDQ, 1024 KiB Test Phase
* Test Run Sequence 1
rd=default,xfersize=1024k,buffers=4
rd=TR1-s128_SPC-2-DQ,streams=128
rd=TR2-s64_SPC-2-DQ,streams=64
rd=TR3-s32_SPC-2-DQ,streams=32
rd=TR4-s16_SPC-2-DQ,streams=16
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-s256_SPC-2-DQ,streams=256
rd=TR12-s128_SPC-2-DQ,streams=128
rd=TR13-s64_SPC-2-DQ,streams=64
rd=TR14-s32_SPC-2-DQ,streams=32
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-s122_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
```

Video on Demand Delivery (VOD)

```
# Video on Demand Test (VOD)
```

Common Commands/Parameters – LFP, LDQ VOD and Persistence

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

rd=default,rampup=7200,periods=3600,measurement=7200,runout=45,rampdown=15,buffers=8
rd=TR1-24500s_SPC-2-VOD,streams=24500

# To start slaves, run:
# nohup java -d64 -cp . RemoteStart > nohup.sbm-4170m2b.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-4170m2c.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-4170m2d.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-4170m2e.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-4170m2f.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-4170m2g.out 2>&1 &
# nohup java -d64 -cp . RemoteStart > nohup.sbm-4170m2h.out 2>&1 &
# On each Client
```

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

```
# Persist 1
```

Common Commands/Parameters – 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
```

Common Commands/Parameters – LFP, LDQ VOD and Persistence

```
maxlateteststart=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, Large File Processing Test, Large Database Query Test, Video on Demand Delivery Test, and SPC-2 Persistence Test Run 1

The following script was used to execute the required ASU pre-fill, Large File Processing Test, Large Database Query Test, Video on Demand Delivery Test and SPC-2 Persistence Test Run 1 in an uninterrupted sequence.

The script also included the appropriate commands to capture the storage capacity listings required for audit submission.

```
#!/usr/bin/ksh
#
#
A_HEAD=sbm-7420m2a
B_HEAD=sbm-7420m2b
#####
# SPC2 execution on sbm-7420m2a and b
RUN=Audit-Run # 8-11-2013

#####
#
# Set SPC2 Output options
#
script=run-spc2-m2.sh
output=$RUN
basedir=/spc/output/spc2/m2-cluster/16T/pre-audit
outdir=$basedir/$output
config=/spc/config/spc2/sbm-m2Cluster
mkdir -p $outdir

##### Edit here when running Persist 2
# Uncomment these two if running persist 2
#hostdir=$outdir/HostP2
#cp $script $outdir/$script-P2
# Comment these two if running persist 2
cp $script $outdir
hostdir=$outdir/HostP1
#
mkdir -p $hostdir

##### Gather Master client info and tunables
cp /etc/system $hostdir

##### Get config files and prtvtoc
cp -r /spc/spc2-2013/SPC2/Config-M2-Cluster $outdir/
#####

# Run pre conditioning:

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

#####
# SPC RUN
#####

```

```
#####
# Run- INIT LFP VOD LDQ

#####
# INIT All Volumes via VOD parameter file
java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-vod-SH.txt -o$outdir/init -
init
#####

#####
# LFP
java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-lfp-SH.txt -o $outdir/lfp-
MH/
#####

#####
# VOD
java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-vod-SH.txt -o $outdir/vod-
MHa/
#####

#####
# LDQ
java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-ldq-SH.txt -o $outdir/ldq-
MHa/
#####

#####
# Persist 1
java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-persist1-SH.txt -o
$outdir/persist1/
#####

#####
# Persist 2
:<< 'COMMENT'
java -d64 -Xmx8192m -cp . vdbench -wSPC2 -f $config/spc2-persist2-SH.txt -o
$outdir/persist2/
sleep 5
cp $config/spc2-persist2-SH.txt $outdir
sleep 5
COMMENT

#####
# Create Archive
cp $config/pre.txt $outdir
cp $config/spc2-lfp-SH.txt $outdir
cp $config/spc2-vod-SH.txt $outdir
cp $config/spc2-ldq-SH.txt $outdir
cp $config/spc2-persist1-SH.txt $outdir

cd $basedir ;/bin/chmod -R 777 $output ;mv $output.zip $output.zip-P1 ;/usr/bin/zip
-r $output.zip $output
touch $basedir/link ; echo " " >> $basedir/link
echo " Use the link below to download the zipped file" >> $basedir/link
echo " " >> $basedir/link
echo http://sbm-240a.us.oracle.com/export/$basedir/$output.zip >> $basedir/link
echo " " >> $basedir/link
echo " Use the link below to take a look at the output files" >> $basedir/link
echo " " >> $basedir/link
echo http://sbm-240a.us.oracle.com/export/$basedir >> $basedir/link
mailx -s $script-is-finished Javier.Chavez@oracle.com < $basedir/link
rm $basedir/link
```

SPC-2 Persistence Test Run 2

The following script was used to execute SPC-2 Persistence Test Run 2.

```
#!/usr/bin/ksh
#
#
A_HEAD=sbm-7420m2a
B_HEAD=sbm-7420m2b
#####
# SPC2 execution on sbm-7420m2a and b
RUN=Audit-Run # 8-12-2013

#####
#
# Set SPC2 Output options
#
script=run-spc2-m2.sh
output=$RUN
basedir=/spc/output/spc2/m2-cluster/16T/pre-audit
outdir=$basedir/$output
config=/spc/config/spc2/sbm-m2Cluster
mkdir -p $outdir

##### Edit here when running Persist 2
# Uncomment these two if running persist 2
hostdir=$outdir/HostP2
cp $script $outdir/$script-P2
# Comment these two if running persist 2
#cp $script $outdir
#hostdir=$outdir/HostP1
#
mkdir -p $hostdir

##### Gather Master client info and tunables
cp /etc/system $hostdir

##### Get config files and prtvtoe
#cp -r /spc/spc2-2013/SPC2/Config-M2-Cluster $outdir/
#####

# Run pre conditioning:

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

#####
# SPC RUN
#####

#####
# Run- INIT LFP VOD LDQ

#####
# INIT All Volumes via VOD parameter file
#java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-vod-SH.txt -o$outdir/init
-init
#####

#####
# LFP
#java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-lfp-SH.txt -o $outdir/lfp-
MH/
```

```
#####
##### VOD
#java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-vod-SH.txt -o $outdir/vod-
MHa/
#####

#####
##### LDQ
#java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-ldq-SH.txt -o $outdir/ldq-
MHa/
#####

#####
##### Persist 1
#java -d64 -Xmx2024m -cp . vdbench -wSPC2 -f $config/spc2-persist1-SH.txt -o
$outdir/persist1/
#####

#####
##### Persist 2
#:<<'COMMENT'
java -d64 -Xmx8192m -cp . vdbench -wSPC2 -f $config/spc2-persist2-SH.txt -o
$outdir/persist2/
sleep 5
cp $config/spc2-persist2-SH.txt $outdir
sleep 5
#COMMENT

#####
##### Create Archive
#cp $config/pre.txt $outdir
#cp $config/spc2-lfp-SH.txt $outdir
#cp $config/spc2-vod-SH.txt $outdir
#cp $config/spc2-ldq-SH.txt $outdir
#cp $config/spc2-persist1-SH.txt $outdir

cd $basedir /bin/chmod -R 777 $output ;mv $output.zip $output.zip-P1 ;/usr/bin/zip
-r $output.zip $output
touch $basedir/link ; echo " " >> $basedir/link
echo " Use the link below to download the zipped file" >> $basedir/link
echo " " >> $basedir/link
echo http://sbm-240a.us.oracle.com/export/$basedir/$output.zip >> $basedir/link
echo " " >> $basedir/link
echo " Use the link below to take a look at the output files" >> $basedir/link
echo " " >> $basedir/link
echo http://sbm-240a.us.oracle.com/export/$basedir >> $basedir/link
mailx -s $script-is-finished Javier.Chavez@oracle.com < $basedir/link
rm $basedir/link
```