



## SPC BENCHMARK 1TM

## **EXECUTIVE SUMMARY**

# LENOVO THINKSYSTEM DS4200

SPC-1 IOPS™	100,021		
SPC-1 Price-Performance™	\$0.14/SPC-1 IOPS™		
SPC-1 IOPS™ Response Time	0.485 ms		
SPC-1 Overall Response Time	0.325 ms		
SPC-1 ASU Capacity	2,267 GB		
SPC-1 ASU Price	\$6.00/GB		
SPC-1 Total System Price	\$13,580.85		
Data Protection Level	Protected 1 (RAID-10)		
Phy sical Storage Capacity	4,800 GB		
Pricing Currency / Target Country	U.S. Dollars / USA		

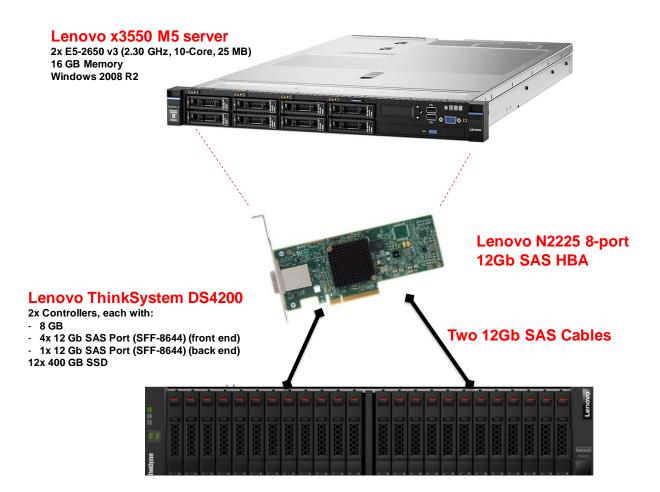
**SPC-1V3.4.0** 

SUBMISSION IDENTIFIER: A32002

SUBMITTED FOR REVIEW: JULY 19, 2017

EXECUTIVE SUMMARY Page 2 of 5

### **Benchmark Configuration Diagram**



Submission Identifier: A32002

Submitted for Review: July 19, 2017

EXECUTIVE SUMMARY Page 3 of 5

#### **Tested Storage Product Description**

The Lenovo ThinkSystem DS4200 SAN array is performance optimized for primary storage, remote/branch offices, virtualization and backup. Offering 2x the performance of its predecessor, the DS4200 is powered by a Rapid Data Placement Engine and provides industry-leading price/performance and scalability.

With extreme flexibility and impressive performance and capacity, the DS4200 helps you tame the storage monster. Using 3.5-inch (LFF) or 2.5-inch (SFF) HDDs and SSDs, the DS4200 supports up to 240 drives (using 9 expansion units), as well as mixing LFF and SFF enclosures in the same array. The DS4200 offers connectivity options for 12G SAS, 8/16 Gb FC and 1/10 Gb iSCSI.

The ThinkSystem DS4200 is ideal for workloads such as primary storage, virtualized resources, consolidated backup, automated disaster recovery, and other similar-sized workloads. With performance and value in mind, and equipped with enterprise-class features, the DS4200 is designed to fit your needs now and into the future.

For additional information, please visit: <a href="http://www3.lenovo.com/us/en/data-center/storage/storage-area-network/lenovo-thinksystem-ds-series/c/len

#### **Priced Storage Configuration Components**

1 x N2225 SAS/SATA HBA

1 x ThinkSystem DS4200, with:

2 x Storage Controllers

8GB cache (16 GB total)

4 x 12 Gb SAS Front End Ports

1 x 12 Gb SAS Back End Connection

12 x 400 GB SSD

Submission Identifier: A32002 Submitted for Review: July 19, 2017 EXECUTIVE SUMMARY Page 4 of 5

## **Storage Configuration Pricing**

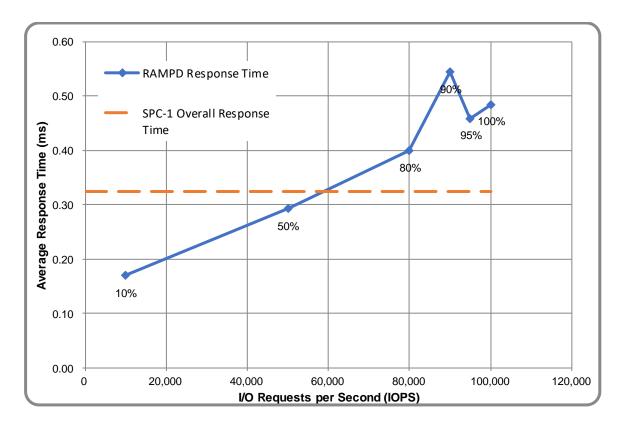
Part No.	Description	Qty	Unit Price	Ext. Price	Disc.	Disc. Price	
Hardware							
4617A21	Lenovo ThinkSystem DS4200 SFF SAS Dual Cont	1	8,279	8,279	45%	4,553.45	
01DC482	400GB 3DWD 2.5" SAS SSD	12	1,499	17,988	55%	8,094.60	
00YL847	0.5M External MiniSAS HD 8644/MiniSAS HD 8	2	49	98	45%	53.90	
00AE912	N2225 12Gb SAS/SATA HBA	1	299	299	45%	164.45	
Hardware Subtotal						12,866.40	
Support & Maintenance							
01JR528	3YR Technician Installed Parts 24x7 4 Hour Re	1	1,299	1,299	45%	714.45	
Support & Maintenance Subtotal						714.45	
SPC-1 Total System Price					13,580.85		

**Discount Details**: The discounts shown are based on the storage capacity purchased and are generally available.

Availability Date: July 20, 2017.

Submission Identifier: A32002 Submitted for Review: July 19, 2017 EXECUTIVE SUMMARY Page 5 of 5

## **Response Time and Throughput Graph**



Contact Information			
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SPC Auditor InfoSizing – www.sizing.com Doug Johnson – doug@sizing.com			

Revision Information				
SPC Benchmark 1™ Revision	V3.4.0			
SPC-1 Workload Generator Revision	v3.0.2			
Publication Revision History	Initial Publication			