



SPC BENCHMARK 1™

EXECUTIVE SUMMARY

FUJITSU LIMITED ETERNUS DX900 S5

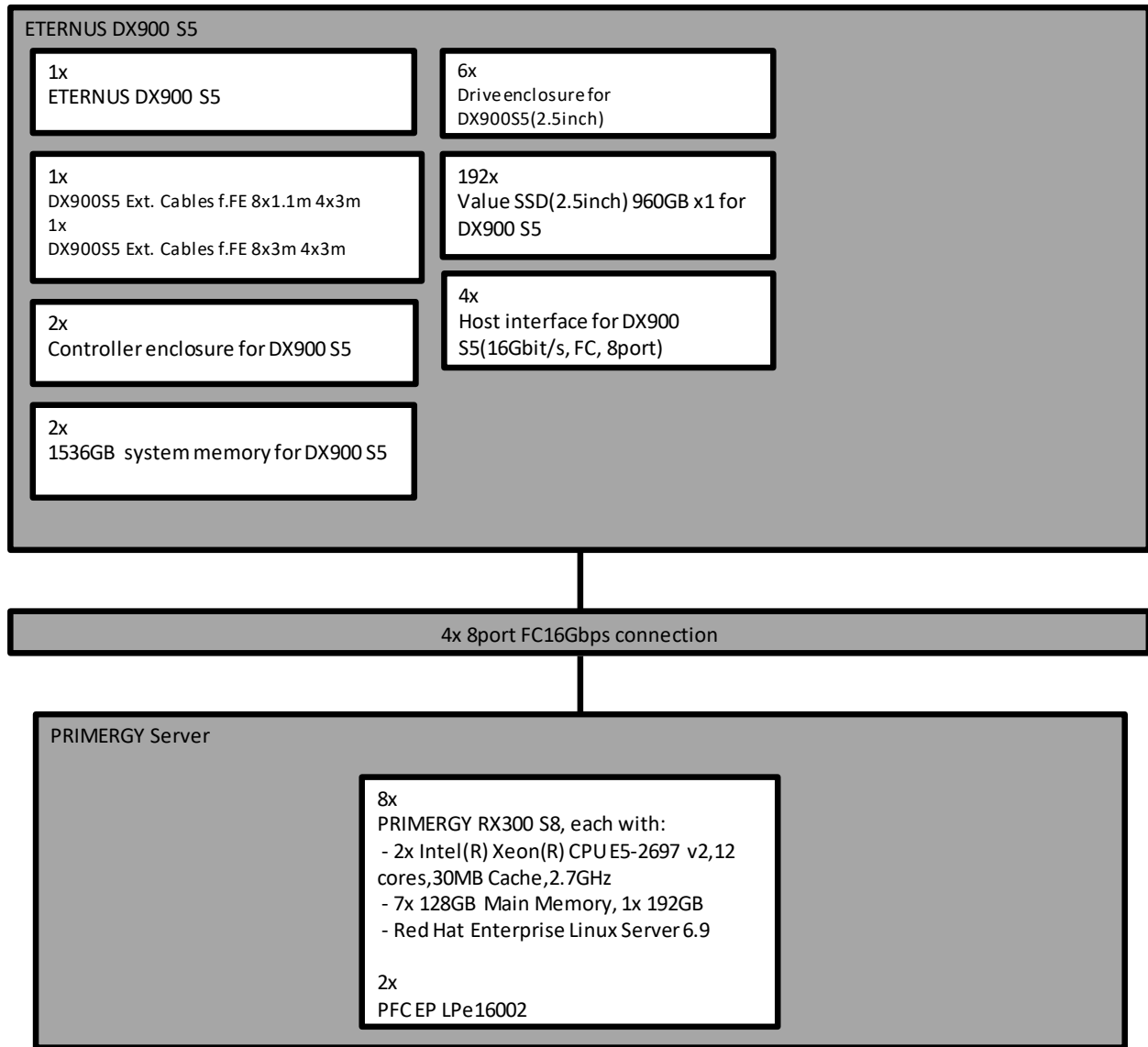
SPC-1 IOPS™	1,601,165
SPC-1 Price-Performance™	\$386.59/SPC-1 KIOPS™
SPC-1 IOPS™ Response Time	0.368 ms
SPC-1 Overall Response Time	0.215 ms
SPC-1 ASU Capacity	66,274 GB
SPC-1 Space Effectiveness Ratio	NA
SPC-1 ASU Price	\$9.34/GB
SPC-1 Total System Price	\$618,983.46
Data Protection Level	Protected 2 (RAID1)
Physical Storage Capacity	184,320 GB
Pricing Currency / Target Country	U.S. Dollars / USA

SPC-1 V3.8.0

SUBMISSION IDENTIFIER: A32012

SUBMITTED FOR REVIEW: NOVEMBER 5, 2019

Benchmark Configuration Diagram



Tested Storage Product Description

Fujitsu Storage ETERNUS DX900 S5 is an Enterprise-grade, midrange hybrid storage system that offers modular scalability, leading performance headroom and relentless business continuity capabilities. Latest data reduction technologies and fully automated quality-of-service functions make ETERNUS DX900 S5 ideal for the data management of business-critical core applications as well as of large and fast-growing amounts of unstructured data. Various types of disk and flash drives can be combined flexibly to balance capacity, data access speed and cost for specific business needs.

For additional detail, please visit:

<https://www.fujitsu.com/global/products/computing/storage/disk/eternus-dx/dx900-s5/index.html>

Priced Storage Configuration Components

16x Emulex LPe16002B-M6-F 16Gb 2-port PCIe Fibre Channel Adapter
1x DX900 S5 with: <ul style="list-style-type: none">2x Controller Enclosure Module, each with:<ul style="list-style-type: none">2x Controller Module, each with:<ul style="list-style-type: none">768 GB cache2x Channel Adapter, each with:<ul style="list-style-type: none">4x 16 Gbps Fibre Channel Host Ports
192x 960 GB SSD Storage Devices (without Hot Spare)

Storage Configuration Pricing

Part No.	Description	Source	Qty	Unit Price	Ext. Price	Disc.	Disc. Price
Hardware & Software							
ET905SAU	ETERNUS DX900 S5	1	1	33,610.00	33,610.00	53%	15,796.70
ETRC AU	Controller enclosure for DX900 S5	1	2	49,040.00	98,080.00	53%	46,097.60
ETREADU	Drive enclosure for DX500/DX600/DX900 S5(2.5inch)	1	6	4,470.00	26,820.00	53%	12,605.40
ETRC30U	AC100/200V Power Cord for AF650 S3, DX500/DX600/DX900 S5(IEC60320 C14, 3m)	1	10	160.00	1,600.00	53%	752.00
ETRHH8	Host interface for DX500/DX600/DX900 S5(16Gbit/s, FC, 8port)	1	4	6,080.00	24,320.00	53%	11,430.40
ETRM9C	1536GB system memory for DX900 S5	1	2	104,710.00	209,420.00	53%	98,427.40
ETRSA9	Value SSD(2.5inch) 960GB x1 for DX500/DX600/DX900 S5	1	192	3,680.00	706,560.00	53%	332,083.20
ETRRASU	19-inch rack (Standard door, 2000mm, Base rack with stabilizers)	1	1	4,070.00	4,070.00	53%	1,912.90
ETRP48U	Power distribution unit for AF650 S3, DX500/DX600/DX900 S5(AC24A/200-240V, 2U, 16Outlets)	1	2	1,870.00	3,740.00	53%	1,757.80
ETRKB11	Cable set between frontend enclosure and controller enclosures for DX900 S5(1.1m/3m)	1	1	2,410.00	2,410.00	53%	1,132.70
ETRKB30	Cable set between frontend enclosure and controller enclosures for DX900 S5(3m/3m)	1	1	3,200.00	3,200.00	53%	1,504.00
13-FPIMD50LCLLC010-OM2	FC cable MMF 10 m, Connector LC-LC, OM2	1	32	40.00	1,280.00	53%	601.60
S26361-F4994-E2	PFC EP LPe16002	1	16	938.00	15,008.00	53%	7,053.76
Hardware & Software Subtotal							531,155.46
Support & Maintenance							
	ETERNUS DX900 Warranty Uplift, 36 Months, Enhanced Plus Level, 24x7 4hr Onsite, Prepaid billing	1	1	117,104.00	117,104.00	25%	87,828.00
Support & Maintenance Subtotal							87,828.00
SPC-1 Total System Price							618,983.46
SPC-1 IOPS™							1,601,165
SPC-1 Price-Performance™ (\$/SPC-1 KIOPS™)							386.59
SPC-1 ASU Capacity (GB)							66,274
SPC-1 ASU Price (\$/GB)							9.34

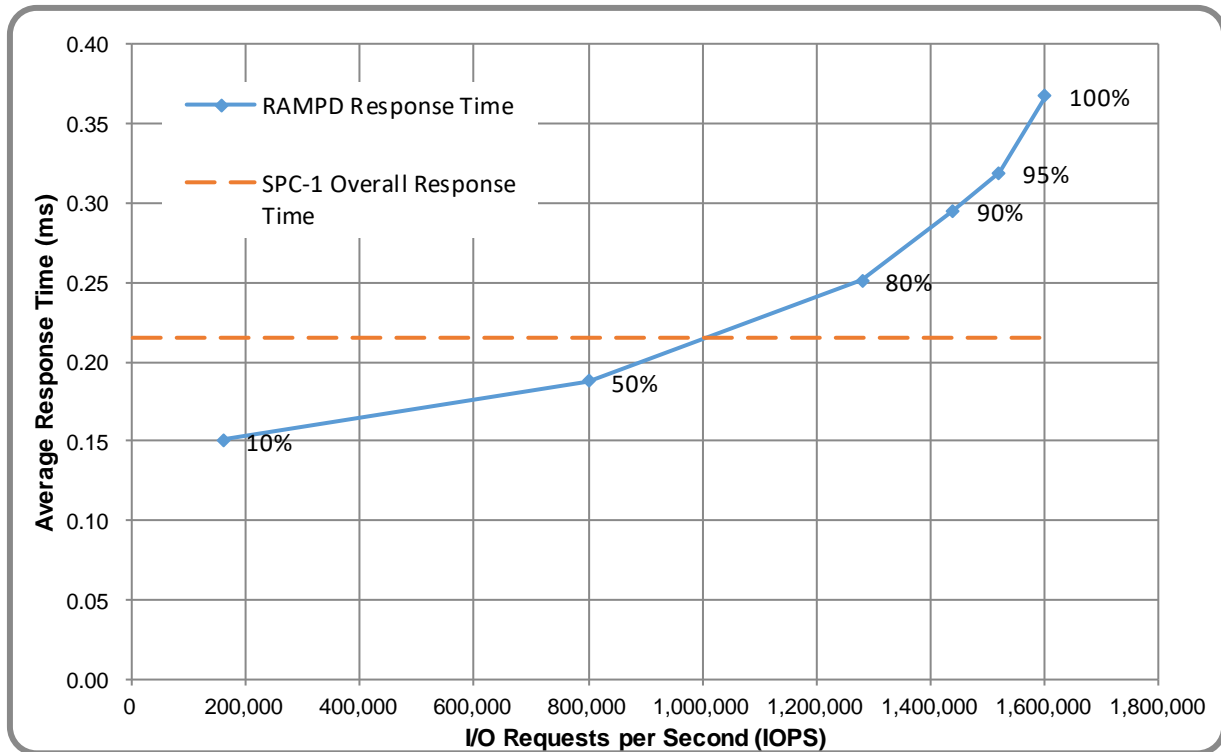
Pricing Sources: 1 = Fujitsu

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

Warranty: The 3-year maintenance and support included in the above pricing meets or exceeds a 24x7 coverage with a 4-hour response time.

Availability Date: Currently Available.

Response Time and Throughput Graph



Contact Information	
Test Sponsor Primary Contact	Fujitsu Limited – http://www.fujitsu.com/services/computing/storage/ Kun Katsumata – kkatsumata@us.fujitsu.com
SPC Auditor	InfoSizing – www.sizing.com Doug Johnson – doug@sizing.com

Revision Information	
SPC Benchmark 1™ Revision	V3.8.0
SPC-1 Workload Generator Revision	v3.0.2-1-g823a
Publication Revision History	Initial Publication