



SPC BENCHMARK 1™

EXECUTIVE SUMMARY

HUAWEI TECHNOLOGIES Co., LTD HUAWEI OCEANSTOR 6800 V5

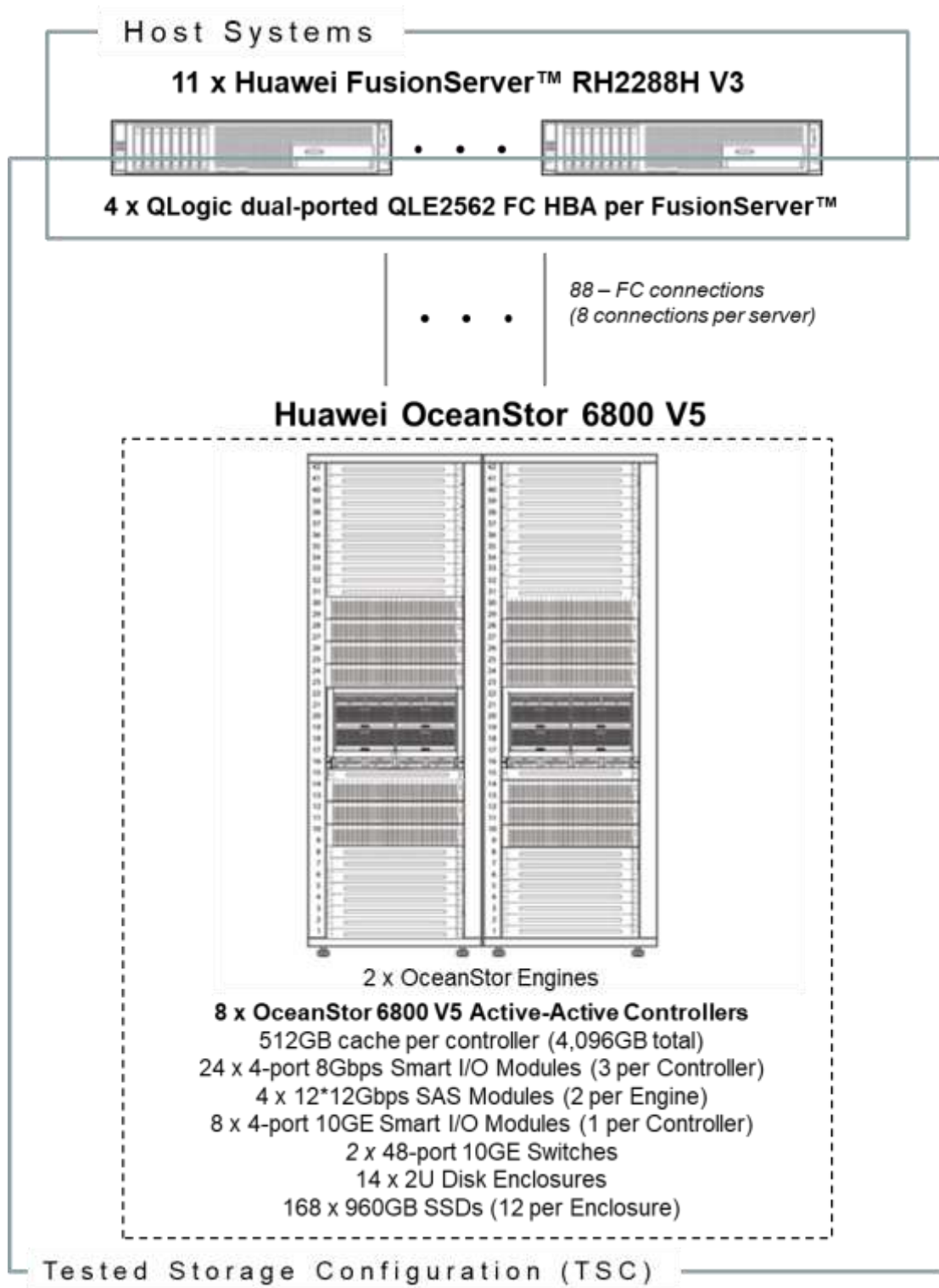
SPC-1 IOPS™	2,700,171
SPC-1 Price-Performance™	\$481.08/SPC-1 KIOPS™
SPC-1 IOPS™ Response Time	0.579 ms
SPC-1 Overall Response Time	0.372 ms
SPC-1 ASU Capacity	61,473 GB
SPC-1 ASU Price	\$21.14/GB
SPC-1 Total System Price	\$1,298,993.24
Data Protection Level	Protected 2 (RAID-10 and full redundancy)
Physical Storage Capacity	161,280 GB
Pricing Currency / Target Country	U.S. Dollars / USA

SPC-1 V3.8

SUBMISSION IDENTIFIER: A31021

SUBMITTED FOR REVIEW: MARCH 25, 2019

Benchmark Configuration Diagram



Tested Storage Product Description

The new generation of mid-range hybrid flash storage, dedicated to providing the reliable and efficient data services for enterprises.

Cloud-ready operating system, flash-enabled performance, and intelligent management software, delivering top-of-the-line functionality, performance, efficiency, reliability, and ease of use.

Satisfies the data storage requirements of large-database OLTP/OLAP, cloud computing, and many other applications, making it a perfect choice for sectors such as government, finance, telecommunications, and manufacturing.

For more details, visit:

<http://e.huawei.com/en/products/cloud-computing-dc/storage/massive-storage/6800-v5>

Priced Storage Configuration Components

44 x QLogic dual-ported QLE2562 FC HBA
2 x System enclosures, each with:
4 x OceanStor 6800 V5 Active-Active Controllers (8 total), each with:
512 GB cache (4,096 GB total)
3 x 4-port 8Gbps Smart I/O Modules (24 total)
1 x 4-port 10GE Smart I/O Modules (8 total)
2 x 12-port 12Gbps SAS I/O Modules (4 total)
14 x 2U Disk enclosures, each with:
12 x 960 GB SSDs (168 total)
2 x 48-port 10GE Switches

Storage Configuration Pricing

	Description	Qty	Unit Price	Ext. Price	Disc.	Disc. Price
Hardware & Software						
02351NPT 68V5-4C2048G-AC	OceanStor 6800 V5 Engine(6U, Four Controller, AC\240HVDC, 2048GB Cache, SPE73C0600)	2	625,481.00	1,250,962.00	68%	400,307.84
SMARTIO8FC	4 port SmartIO I/O module (SFP+,8Gb FC)	24	3,192.00	76,608.00	68%	24,514.56
SMARTIO10ETH	4 port SmartIO I/O module (SFP+, 10Gb Eth/FCoE(VN2VF)/Scale-out)	8	6,288.00	50,304.00	68%	16,097.28
LPU4S12V5	12 port 4*12Gb SAS shared I/O module (MiniSAS HD)	4	4,963.00	19,852.00	68%	6,352.64
HSSD-960G2S-A9	960GB SSD SAS Disk Unit (2.5")	168	10,176.00	1,709,568.00	70%	512,870.40
DAE52525U2-AC-A2	Disk Enclosure (2U, AC\240HVDC, 2.5", Expansion Module, 25 Disk Slots, without Disk Unit, DAE52525U2)	14	10,584.00	148,176.00	68%	47,416.32
RACK-42U-1	42U Storage AC Cabinet (With Power Distribution Unit)	2	10,158.00	20,316.00	0%	20,316.00
ND8GOLC00	Qlogic, FC HBA, 8Gb(QLE2562), 2-Port, SFP+(with 2x Multi-mode Optical Transceiver), PCIe 2.0 x4	44	1,698.00	74,712.00	0%	74,712.00
SN2F01FCPC	Patch Cord, DLC/PC, DLC/PC, Multi-mode, 3m, A1a.2, 2mm, 42mm DLC, OM3 bending insensitive	104	14.00	1,456.00	0%	1,456.00
LIC-68V5-BS	Basic Software License(Including DeviceManager, SmartThin, SmartMulti-tenant, SmartMigration, SmartErase, SmartMotion, SystemReporter, SmartQuota, NFS, CIFS, NDMP, eService)	1	30,744.00	30,744.00	70%	9,223.20
CE6855-HI-F-B0A	CE6855-48S6Q-HI Switch (48-Port 10G SFP+, 6-Port 40GE QSFP+, 2*AC Power Module, 2*FAN Box, Port-side Exhaust)	2	13,738.00	27,476.00	0%	27,476.00
Hardware & Software Subtotal						1,140,742.24
Support & Maintenance						
02351LWK-88134ULF-36	OceanStor 6800 V5 Engine (6U, Four Controller, AC\240HVDC, 2048GB Cache, SPE73C0600&7*Disk Enclosure-2U, AC\240HVDC, 2.5", DAE52525U2&84*960GB SSD SAS Disk Unit) Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-36Month(s)	2	56,085.00	112,170.00	0%	112,170.00
88034JNY-88134UHK-36	Basic Software License (Including DeviceManager, SmartThin, SmartMulti-tenant, SmartMigration, SmartErase, SmartMotion, SystemReporter, eService, SmartQuota, NFS, CIFS, NDMP) Hi-Care Application Software Upgrade Support Service-36Month(s)	1	4,323.00	4,323.00	0%	4,323.00
02350RTB-88134UFJ-36	CE6855-48S6Q-HI Switch (48-Port 10G SFP+, 6-Port 40GE QSFP+, 2*AC Power Module, 2*FAN Box,Port-side Exhaust) Hi-Care Onsite Standard 9x5xNBD Service-36Month(s)	2	5,729.00	11,458.00	0%	11,458.00
8812099164	OceanStor 6800 V5 Installation Service - Engineering	1	30,300.00	30,300.00	0%	30,300.00
Support & Maintenance Subtotal						158,251.00
SPC-1 Total System Price						1,298,993.24
SPC-1 IOPS™						2,700,171
SPC-1 Price-Performance™ (\$/SPC-1 KIOPS™)						481.08
SPC-1 ASU Capacity (GB)						61,473
SPC-1 ASU Price (\$/GB)						21.14

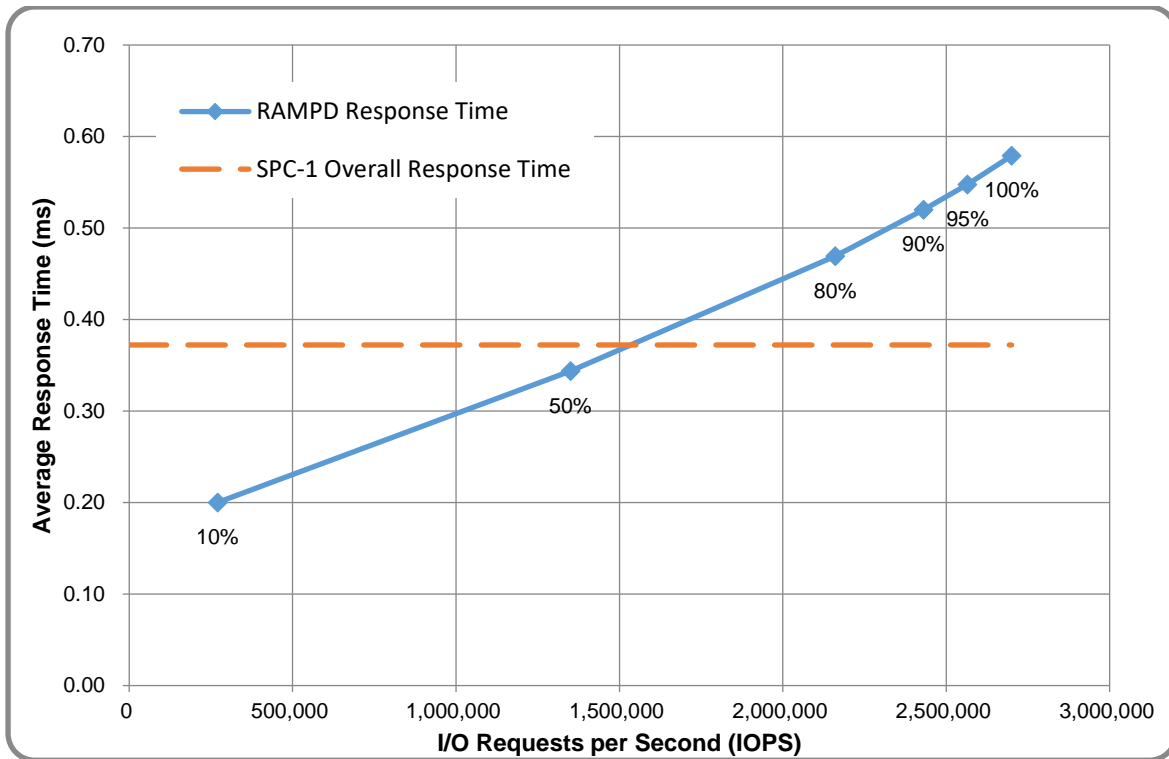
Third-Party Reseller: Huawei Technologies Co., Ltd. only sells its products to third-party resellers who, in turn, sell those products to U.S. customers. The above reflects the pricing quoted by one of those third-party resellers. See Appendix B of the Full Disclosure Report for a copy of the third-party reseller's quotation.

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

Warranty: Hi-Care Premier On-Site Service include: 7x24 Technical Assistance Center Access. Access to all new software updates and Online Support. 24x7 with 4-hour On-site Hardware Replacement.

Availability Date: Currently available.

Response Time and Throughput Graph



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