**SPC Benchmark 1™**

**Executive Summary**

**HUAWEI TECHNOLOGIES CO., LTD**
**HUAWEI OCEANStor 5300 V5**

<table>
<thead>
<tr>
<th>SPC-1 IOPS™</th>
<th>450,212</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC-1 Price-Performance™</td>
<td>$416.27/SPC-1 KIOPS™</td>
</tr>
</tbody>
</table>

| SPC-1 IOPS™ Response Time | 0.577 ms |
| SPC-1 Overall Response Time | 0.409 ms |
| SPC-1 ASU Capacity | 11,768 GB |
| SPC-1 ASU Price | $15.93/GB |
| SPC-1 Total System Price | $187,405.32 |

- **Data Protection Level**: Protected 2 (RAID-10)
- **Physical Storage Capacity**: 28,640 GB
- **Pricing Currency / Target Country**: U.S. Dollars / USA

**SPC-1 V3.7**

**Submission Identifier**: A31015

**Submitted For Review**: August 28, 2018
Benchmark Configuration Diagram

**Host Systems**

4 x Huawei FusionServer™ RH2288H V3

2 x QLogic dual-ported QLE2562 FC HBA per FusionServer™

16 x FC connections (4 connections per server)

**Huawei OceanStor 5300 V5**

2 x Engine Enclosures

4 x OceanStor 5300 V5 Active-Active Controllers (2 per Engine)
- 64 GB cache per controller (256 GB total)
- 4 x 4-port 8Gbps Smart I/O Modules (1 per Controller)
- 4 x 4-port 10Gbps Smart I/O Modules (1 per Controller)
- 4 x 2-port 12Gbps SAS I/O Modules (1 per Controller)
- 16 x 900 GB SSDs (8 per Enclosure)

2 x 2U Disk Enclosures
- 16 x 900 GB SSDs (8 per Enclosure)

Tested Storage Configuration (TSC)
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:


Priced Storage Configuration Components

<table>
<thead>
<tr>
<th>8 x QLogic dual-ported QLE2562 FC HBA</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x OceanStor 5300 V5 Active-Active Controllers (2 per enclosure), each with:</td>
</tr>
<tr>
<td>64 GB cache (256 GB total)</td>
</tr>
<tr>
<td>4 x 4-port 8Gbps Smart I/O Modules</td>
</tr>
<tr>
<td>4 x 4-port 10Gbps Smart I/O Modules</td>
</tr>
<tr>
<td>4 x 2-port 12Gbps SAS I/O Modules</td>
</tr>
<tr>
<td>2 x System enclosures, each with:</td>
</tr>
<tr>
<td>8 x 900 GB SSDs (16 total)</td>
</tr>
<tr>
<td>2 x 2U Disk enclosures, each with:</td>
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<tr>
<td>8 x 900 GB SSDs (16 total)</td>
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## Storage Configuration Pricing

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Unit Price</th>
<th>Ext. Price</th>
<th>Disc.</th>
<th>Disc. Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hardware &amp; Software</strong></td>
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<td>53V5-128G-AC2-8FC</td>
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**Support & Maintenance**

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**SPC-1 Total System Price**

SPC-1 IOPS™                                                                 450,212
SPC-1 Price-Performance™ ($/SPC-1 KIOPS™)                                     416.27
SPC-1 ASU Capacity (GB)                                                      11,768

**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

Contact Information

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|-------------------------------|--------------------------------------------------|
| SPC Auditor                   | InfoSizing – www.sizing.com
Francois Raab – francois@sizing.com |

Revision Information

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<tr>
<th>SPC Benchmark 1™ Revision</th>
<th>V3.7.0</th>
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<tr>
<td>SPC-1 Workload Generator Revision</td>
<td>V3.0.2-1 build g823a</td>
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<tr>
<td>Publication Revision History</td>
<td>First Edition</td>
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