

# Dell PowerMax vs. HPE Primera

## Dell PowerMax

### End-to-End NVMe

Unlock the performance benefits of NVMe with up to 288 NVMe SSDs and NVMe host connectivity.



### Delivers persistent SCM

Persistent SCM tier with intelligent tiering.



### Massive consolidation

Block, File, vVols, Mainframe, IBMi storage.



### Multi-Controller, scale-out and up

Up to 16 active controllers and 4.5PB effective NVMe SSD storage.



### Amazing performance

Up to 15 million IOPS<sup>1</sup> and 350 GB/s<sup>2</sup> with under 100 micro-second read response times.<sup>3</sup>



### Trusted data services without compromise

Global inline data reduction with 3:5:1 guarantee.<sup>6</sup> Simultaneous active/active metro sync replication with 3rd site async.



## HPE Primera

### Limited NVMe

Only up to 16 NVMe SSDs and no NVMe-OF host connectivity limits the performance benefits.

### Does not offer SCM

No SCM persistent storage.

### Limited consolidation

No Mainframe or native IBMi. File services require a gateway server adding costs and complexity.

### One-fourth the scale-out of PowerMax

Only up to 4 active controllers and 0.753PB effective NVMe SSD storage.

### Much lower performance

Up to 1.5 million IOPS<sup>4</sup> and 44 GB/s<sup>4</sup> with sub-millisecond latency.

### Data services that slow performance<sup>5</sup>

Selective data reduction with no blanket guarantee. Active/active metro sync replication, active/standby with 3rd site async.

<sup>1</sup> Based on Dell internal analysis of Random Read Hits Max IOs Per Second (within a single array) for the PowerMax 8000, August 2020.

<sup>2</sup> Based on Dell internal analysis of Random Read Hits Max MBs Per Second (within a single array) for the PowerMax 8000, August 2020.

<sup>3</sup> Based on Dell internal analysis using the Random Read Hits benchmark for a single PowerMax 8000 array, August 2020.

<sup>4</sup> Based on HPE internal testing as stated in the HPE published document "HPE Storage Substantiation, Claim Substantiation," September 2020.

<sup>5</sup> Based on a Principled Technologies report commissioned by Dell, "Enable Greater Data Reduction and Storage Performance with Dell EMC PowerStore 7000 Series Storage Arrays," compared to HPE Primera A670 August 2020. Actual results may vary. See the full report here.

<sup>6</sup> Based on Dell Future Proof Program guarantee of 3:5:1 data reduction rate for reducible data, August 2020. Actual performance results may vary. See Future-Proof Program terms and conditions for details.

Comparison based on publicly available information, January 2021.

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