

# Accelerate performance on Apache Hadoop workloads with Intel Optane DC SSDs and HPE ProLiant DL380 Gen10 servers

An HPE solution with Intel Optane DC SSDs completed a big data workload in 28% less time and provided 40% more throughput than a configuration with only SATA SSDs

Taking a targeted approach to data analytics makes good business sense—but only if you can run data analysis quickly. In hands-on testing, an Apache® Hadoop® cluster of HPE ProLiant DL380 Gen10 servers equipped with Intel® Optane™ DC SSDs processed a TeraSort workload in 28 percent less time and provided 40 percent higher throughput than the same server cluster with only SATA SSDs. With HPE ProLiant DL380 Gen10 servers and Intel Optane DC SSDs, your company could get more out of its active Hadoop datasets.

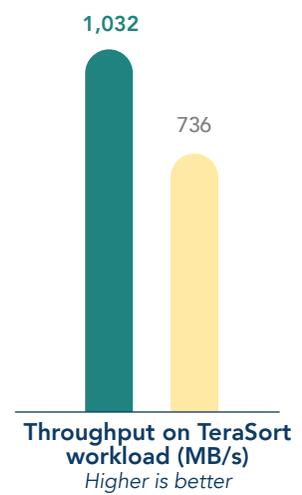
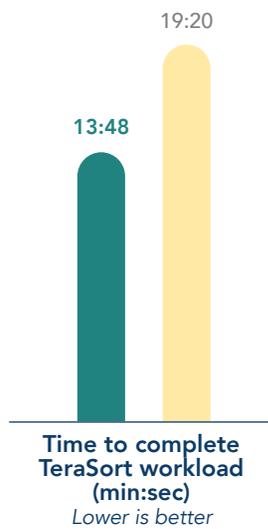


Deliver business insights sooner so you can innovate and grow



**28%** less time to complete big data workloads\*

**40%** more throughput\*



■ Configuration with SATA SSDs + Intel Optane DC SSDs    ■ Configuration with only SATA SSDs

\*according to tests we conducted on the TeraSort benchmark, using a Hadoop cluster with HPE ProLiant DL380 Gen10 servers and Intel Optane DC SSDs, compared to the same server clusters using only SATA SSDs



## The business benefits of using Intel Optane DC SSDs

The Intel Optane DC SSD is designed to deliver high throughput, low latency, predictably fast service, and high endurance.<sup>1</sup> Faster performance and higher durability could enable your business to:

- Support demanding, storage-intensive environments for longer, potentially resulting in fewer storage hardware replacements
- Serve more customers and expand its customer base
- Satisfy your users with faster performance even during periods of high use, minimizing customer drop-off

Learn more at <https://www.intel.com/content/www/us/en/architecture-and-technology/optane-technology/optane-for-data-centers.html>.

Learn more at <http://facts.pt/erw42r3>

1 "Breakthrough Performance Expands Datasets, Eliminates Bottlenecks," accessed November 21, 2019, <https://www.intel.com/content/www/us/en/products/docs/memory-storage/solid-state-drives/data-center-ssds/optanessd-dc-p4800x-p4801x-brief.html>.