Hewlett Packard Enterprise

Performance brief

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NEW HPE PROLIANT DL380 GEN10 PLUS SHOWS SIGNIFICANT GENERATIONAL GAINS ON TWO-TIER SAP® SALES AND DISTRIBUTION (SD) STANDARD APPLICATION BENCHMARK

Comparing 3rd Generation to 2nd Generation Intel® Xeon® Scalable processors



Key takeaways

- **2P result shows great superiority compared to previous generation Intel Xeon Scalable Processors and server platform**
- **2P results beat competitor Fujitsu with a similar platform**

Configurations on the SAP SD standard application benchmark

HPE ProLiant DL380 Gen10 Plus
Certification #2021034; Intel Xeon Platinum 8380 @ 2.30 GHz; 2 processors / 80 cores / 160 threads; 80 KB L1 cache and 1,280 KB L2 cache per core, 60 MB L3 cache per processor, 1,024 GB main memory Windows Server 2016 Datacenter Edition; Microsoft SQL Server 2012, SAP enhancement package 5 for SAP ERP 6.0 PL216. Results: 43,250 SAP SD users and 236,770 SAPS.

HPE ProLiant DL380 Gen10
Certification #2019017; Intel Xeon Platinum 8280L @ 2.7 GHz; 2 processors / 56 cores / 112 threads; 64 KB L1 cache and 1,024 KB L2 cache per core; 38.5 MB L3 cache per processor; 768 GB memory; Windows Server 2016 Datacenter Edition; Microsoft SQL Server 2012, SAP enhancement package 5 for SAP ERP 6.0. Results: 29,231 SAP SD users and 159,980 SAPS.

Results as of May 3, 2021

See SAP benchmarks for further details.

About the benchmark
The SAP SD standard application benchmark is an Enterprise Resource Planning (ERP) benchmark that tests online order and invoice transaction processing (OLTP).

EXECUTIVE SUMMARY

The new HPE ProLiant DL380 Gen10 Plus, with its two-tier SAP SD standard application benchmark results running 3rd Generation Intel® Xeon® Scalable Processors, achieved noteworthy 2P generational gains running Microsoft Windows Server® and Microsoft SQL Server® software. The server showed a performance increase of 47% when compared to the Second Generation Intel® Xeon® processors. Results of 43,250 SAP SD benchmark users and 236,770 SAPS means ProLiant DL380 Gen10 Plus customers can now achieve high performance for multi-workload environments.

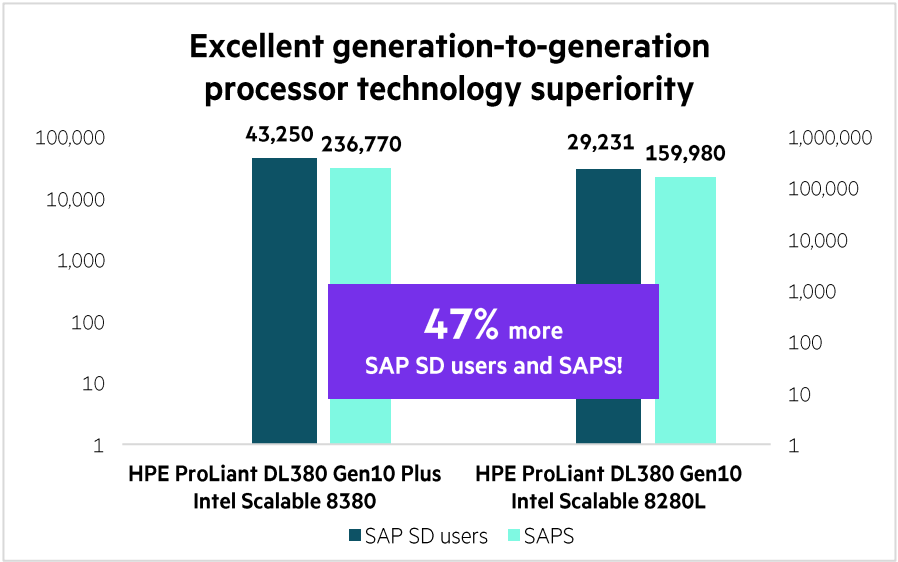


FIGURE 1. The SAP SD 2P results of the HPE ProLiant DL380 Gen10 Plus show performance gains as a result of newer processor technology evidenced by comparing the 3rd Gen Intel Xeon Scalable processors to 2nd Gen Intel Xeon Scalable Processors.

HPE, Microsoft, and SAP partnerships

The partnership of HPE, Microsoft, and SAP brings solutions to deliver more responsive and scalable platforms.

Close cooperation forms the groundwork for innovations that matter to customers because they accelerate success. Benchmark results are proof points of partnership technology achievements.

Configurations on Fujitsu server with 3rd Gen Intel Xeon Processors on the SAP SD standard application benchmark

Fujitsu PRIMERGY X2540 M6
Certification #2021024; Intel Xeon Platinum 8380 @ 2.3 GHz; 2 processors / 80 cores / 160 threads; 80 KB L1 cache and 1,280 KB L2 cache per core; 60 MB L3 cache per processor; 1024 GB memory; Windows Server 2016; Microsoft SQL Server 2012, SAP enhancement package 5 for SAP ERP 6.0. Results: 42,750 SAP SD users and 233,420 SAPS

In addition, the 2P ProLiant DL380 Gen10 Plus conquered the similarly configured 2P Fujitsu competitor, the PRIMERGY X2540 M6, with performance superiority in both SAP SD users and SAPS, as shown in Figure 2.

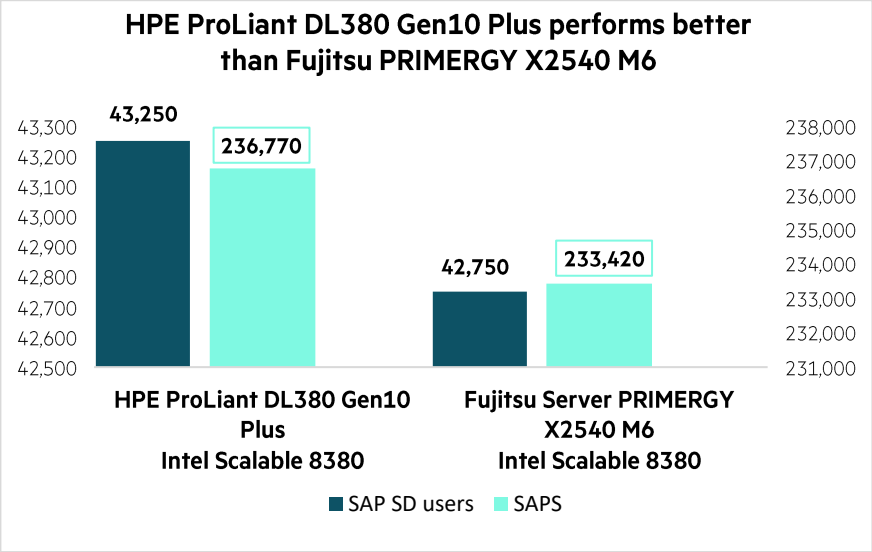


FIGURE 2. The ProLiant DL380 Gen10 with 3rd Gen Intel Xeon Scalable processors attained more SAP SD users and SAPS when compared to the Fujitsu PRIMERGY X2540 M6 with a similar configuration.

CUSTOMER VALUE WITH HPE

HPE ProLiant DL380 Gen10 Plus

The 2U, 2P HPE ProLiant DL380 Gen10 Plus is an accelerator-optimized solution that is powered by the Intel 3rd Gen Intel Xeon Scalable Processors. The server offers dramatically enhanced storage capabilities with a broad drive cages/ trays /portfolio. Support for HPE GreenLake offers flexible as-a-service consumption while maintaining on-prem control.

BOTTOM LINE

This achievement is proof that the new HPE ProLiant DL380 Gen10 Plus delivers excellent performance at scale for SAP workloads and can meet the demands of SAP customers looking for high-performing 2P solutions.

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