



Key takeaways

- HPE published first-ever result with 2.6 billion initial records on the SAP BW, edition for SAP HANA benchmark
- HPE takes top spot for Phase 2 KPI with 1.3 billion initial records

About HPE Solutions for SAP HANA

HPE is the #1 SAP HANA infrastructure provider with a portfolio of purpose-built, optimized and pre-integrated systems, designed for mission-critical reliability.

Certified in 2-socket to 20-socket configurations with sizes ranging from 96 GB to 192 TB, these complete systems offer scalability, flexibility, and grow as customers' needs grow. Customers can accelerate their time to value with simplicity of manageability and seamless integration into their environments.

HPE ConvergedSystem for SAP HANA is a unified solution support that offers peace of mind, and end-to-end consulting services help customers get more out of their investments.

The SAP BW, edition for SAP HANA benchmark

This benchmark is SAP's next-generation data warehouse solution, a new product that does not replace existing SAP Business Warehouse solutions, but that targets the modelling of an agile and flexible layered architecture of a modern data warehouse. The integrated data warehouse solution is optimized to fully leverage the SAP HANA in-memory platform. It empowers delivery of simple, open, flexible, and highly scalable solutions.

As of date for all benchmarks: July 11, 2017. See sap.com/benchmarks for further details.

HPE Server performance information is available at hpe.com/servers/benchmarks.

HPE ConvergedSystem 500 for SAP HANA® with HPE ProLiant DL560 Gen10 Server is first to publish with 2.6 billion initial records on the SAP® BW, edition for SAP HANA standard application benchmark

Executive summary

HPE ConvergedSystem 500 for SAP HANA® scale-up configurations, built with the new HPE ProLiant DL560 Gen10 server, showcased HPE technological sophistication by being the first platform in the industry to publish a result with 2.6 billion initial records on the SAP® BW edition, for SAP HANA standard application benchmark. In addition, the HPE platform has achieved four-processor leadership with 1.3 billion initial records on the Phase 2 key performance indicator (KPI), query executions per hour.

Figure 1. HPE ConvergedSystem 500 for SAP HANA is first to publish SAP BW edition, for SAP HANA results with 2.6 billion initial records.

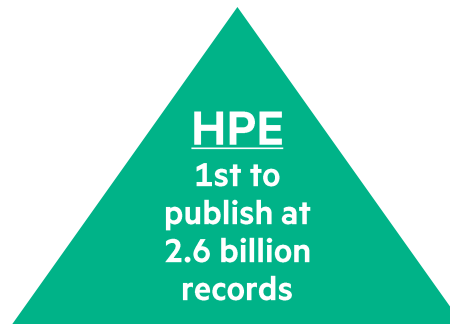
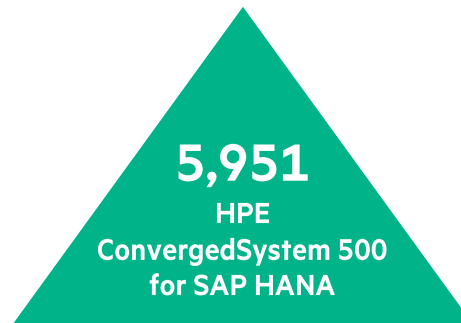


Figure 2. Comparison of Phase 2 Query Executions per Hour KPI results of HPE ConvergedSystem 500 for SAP BW, edition for SAP HANA benchmark with 1.3 billion initial records.

1 four-processor result in Phase 2 KPI, Query Executions per Hour



NEW HPE ProLiant DL560 Gen10 delivers compelling customer value



The newest-generation HPE ProLiant DL560 Gen10 server is the high-density scale-up server for business-critical workloads. The HPE ProLiant DL560 Gen10 Server provides scalable performance with up to four processors in a dense 2U form factor. High-performance options include Intelligent System Tuning (IST), Persistent Memory¹, and expanded NVMe capacity. HPE iLO 5 provides unprecedented remote management capability. The benchmark refers to the SAP Business Warehouse application, edition for SAP HANA.

¹ 2H 2017 availability

Server configurations

HPE ConvergedSystem 500 for SAP HANA configurations

HPE in Houston, TX, USA, has been certified with the following data:

	Benchmark 1: HPE ConvergedSystem 500 (DL560 Gen10) for SAP HANA Certification #2017026	Benchmark 2: HPE ConvergedSystem 500 (HPE ProLiant DL560 Gen10) for SAP HANA Certification #2017025
Benchmark Phase 1		
Number of initial records:	2,600,000,000	1,300,000,000
Total runtime of data load/transformation (seconds)	66,892	31,813
Benchmark Phase 2		
Query executions per hour	4,380	5,951
Records selected	481,159,495,420	314,442,583,986
CPU utilization of database server	98%	93%
Benchmark Phase 3		
Total runtime of complex query phase (seconds)	154 seconds	139 seconds
Operating system	SUSE Linux Enterprise Server 12	SUSE Linux Enterprise Server 12
Database	SAP HANA 1.0	SAP HANA 1.0
Technology platform release	SAP NetWeaver 7.50	SAP NetWeaver® 7.50
Database Server:	HPE ConvergedSystem 500 for SAP HANA (DL560 Gen10) 4 processors / 112 cores / 224 threads, Intel Xeon Platinum 8180, 2.50 GHz, 3072 GB main memory	HPE ConvergedSystem 500 for SAP HANA (DL560 Gen10) 4 processors / 112 cores / 224 threads, Intel Xeon Platinum 8180, 2.50 GHz, 3072 GB main memory