HPE ProLiant DL325 Gen11 holds 18 records on AMD leader board for server-side Java workloads

Key takeaways

HPE ProLiant DL325 Gen11 performance scores on the SPECjbb 2015 benchmark represent the following:

- **18 world records across all SPECjbb 2015 categories and metrics**
  - World record 1 CPU
  - World record 1 CPU Linux
  - World record 160 cores per chip
- **Generational performance gains**
  - Multi-JVM max-jOPS: 26.67%
  - Multi-JVM critical-jOPS: 30.85%
  - Composite max-jOPS: 22.84%
  - Composite critical-jOPS: 20.06%
  - Distributed max-jOPS: 34.35%
  - Distributed critical-jOPS: 28.34%

All results valid as of 10/10/2024.

Sweeping all three SPECjbb® 2015 categories

Executive summary

The HPE ProLiant DL325 Gen11 achieved world record performance in all three categories of the SPECjbb® 2015 benchmark: Multi-JVM, Composite, and Distributed, as listed on the AMD leader board. The server was configured with the 5th Gen AMD EPYC™ 9845 processor and defeated all competitors. Generational gains for the HPE ProLiant DL325 Gen11 are 20.06% to 34.35%. The SPECjbb 2015 benchmark shows a server's pure throughput and critical throughput under service-level agreements, modeling a worldwide company handling point-of-sale requests, online purchases, and data mining operations.

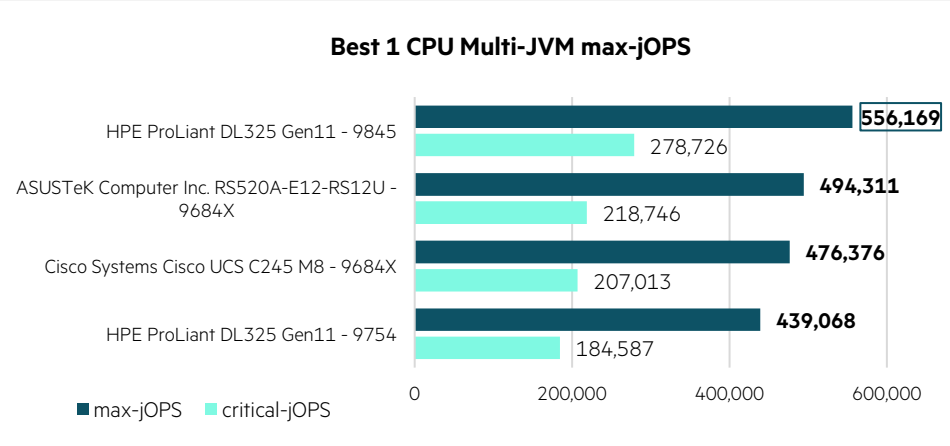

Figure 1. Top SPECjbb 2015-Multi-JVM max-jOPS 1 CPU results and previous generation result

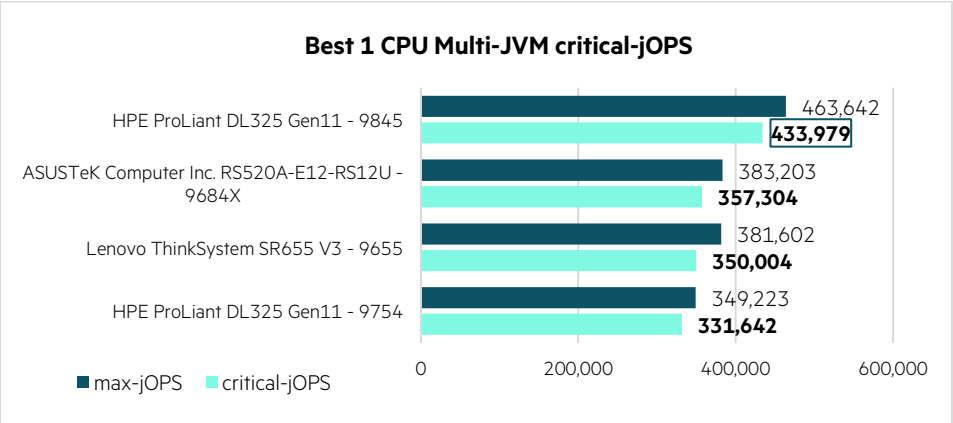

Figure 2. Top SPECjbb 2015-Multi-JVM critical-jOPS 1 CPU results and previous generation result

HPE GreenLake

About SPECjbb 2015

The benchmark shows a server's pure throughput (max-jOPS) as well as critical throughput (critical-jOPS) under service level agreements (SLAs) specifying response times from 10 ms to 500 ms. The benchmark exercises the CPUs, cache, memory hierarchy, and the scalability of shared memory processors (SMPs) as well as implementations of the Java Virtual Machine (JVM) and aspects of the operating system.

About run categories

SPECjbb 2015-Composite components are inside a single JVM instance.

SPECjbb 2015-MultiJVM launches all components inside a single OS instance.

SPECjbb-Distributed is the most complex run category and may map more closely to many deployments where user requests come from an outside source.

Source: spec.org/jbb2015/docs/userguide.pdf

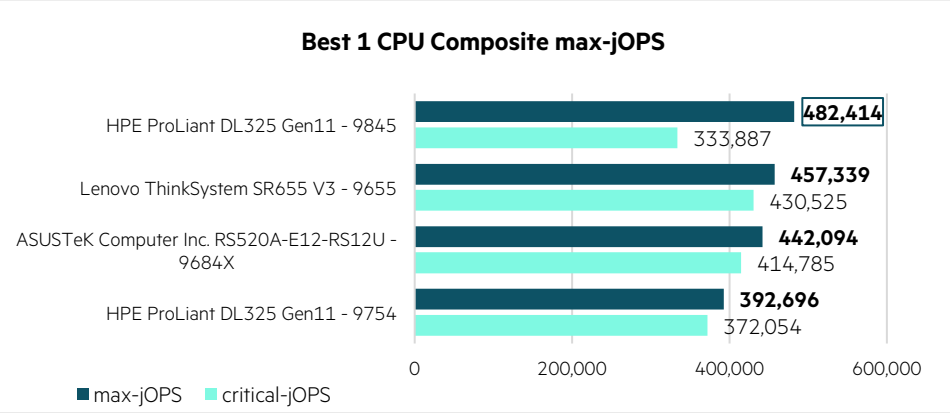

Figure 3. Top SPECjbb 2015-Composite max-jOPS 1 CPU results and previous generation result

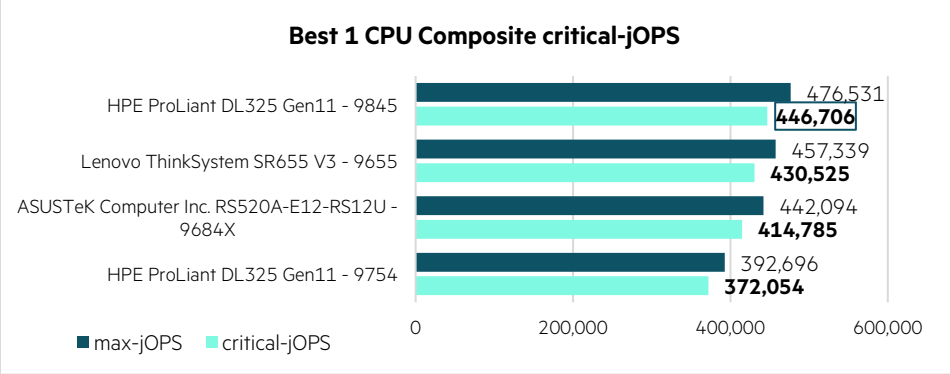

Figure 4. Top SPECjbb 2015-Composite critical-jOPS 1 CPU results and previous generation result

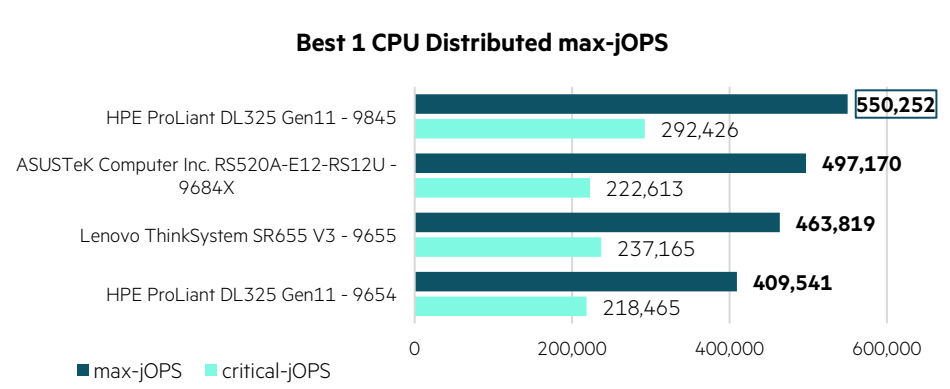

Figure 5. Top SPECjbb 2015-Distributed max-jOPS 1 CPU results and previous generation result

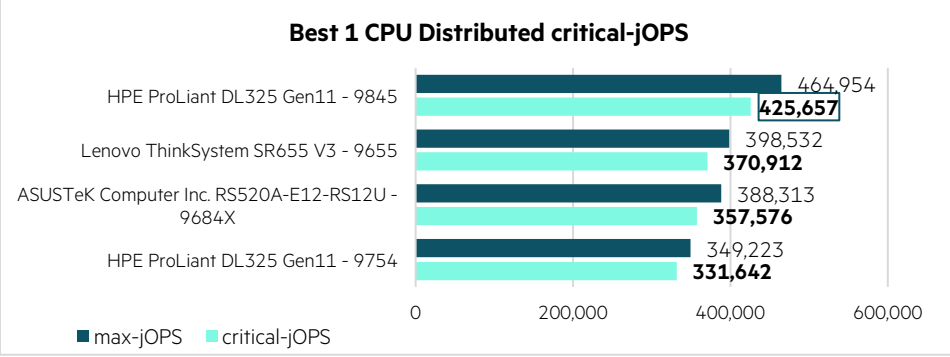

Figure 6. Top SPECjbb 2015-Distributed critical-jOPS 1 CPU results and previous generation result

Customer value with HPE

HPE ProLiant DL325 Gen11 Server. The HPE ProLiant DL325 Gen11 server is a low-cost 1U 1P solution that delivers exceptional value balancing compute, memory, and network bandwidth at 1P economics. The HPE ProLiant DL325 Gen11 is an excellent choice for virtualized workloads.

The HPE ProLiant DL325 Gen11 supports 4th and 5th Generation AMD EPYC™ Scalable Processors with up to 160 cores, DDR5 memory at up to 6000 MT/s, 12 DIMM channels per processor, PCIe Gen5 with up to 128 lanes per socket, EDSFF drives, and up to 2200 W power supplies. The server includes HPE iLO 6 remote management and security enhancements.

Security. Hewlett Packard Enterprise delivers trusted security by design, with silicon root of trust from HPE, enabled by HPE Integrated Lights-Out (HPE iLO). Hardware-based security starts with HPE iLO, building on a proven 20-year history with new features that strengthen security. HPE innovates supply chain security, provisioning servers with initial device identification to further enable a Zero Trust environment, which allows the cryptographic authentication of HPE servers and HPE iLO.

Bottom line

This performance benchmark records are proof points for the server-side Java leadership capability of the HPE ProLiant DL325 Gen11 server for deployments supporting point-of-sale, online purchasing, and data mining. HPE continues to be on the cutting edge by designing products that stand the test of time with innovations that are ahead of their time.

Learn more

HPE ProLiant DL325 Gen11 Documents

HPE server performance briefs

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