

NEW HPE SUPERDOME FLEX 280 SHOWS 4P LEADERSHIP WITH 6 PERFORMANCE WORLD RECORDS ON SPECJBB® 2015 BENCHMARK

Featuring 3rd Generation Intel® Xeon® Scalable Processors on a server-side Java workload



Key takeaways

For 4P servers:

- #1 SPECjbb 2015-MultiJVM max-jOPS
- #1 SPECjbb 2015-MultiJVM critical jOPS
- #1 SPECjbb 2015-Composite max-jOPS
- #1 SPECjbb 2015-Composite critical-jOPS
- #1 SPECjbb 2015-Distributed max-jOPS
- #1 SPECjbb 2015-Distributed critical-jOPS

Performance Score Card

HPE Superdome Flex 280

4 Intel Xeon 8380H Scalable Processors

8P Integer Compute Performance – SPEC CPU 2017

SPECspeed2017_int_base = 12.3

SPECspeed2017_int_peak = 12.6

SPECrate2017_int_peak = 1,560

8P FP Compute Performance – SPEC CPU 2017

SPECrate2017_fp_base = 279

SPECspeed2017_fp_peak = 283

SPECspeed2017_fp_base = 1,260

4P Java Compute Performance – SPECjbb 2015

MultiJVM max- / critical-jOPS – **388,135** / 206,258

MultiJVM max- / critical-jOPS – 343,283 / **299,065**

Composite max- / critical-jOPS – **292,945** / 138,893

Composite max- / critical-jOPS – 282,357 / **246,148**

Distributed max- / critical-jOPS – **392,868** / 197,861

Distributed max- / critical-jOPS – 307,891 / **347,369**

8P Java Compute Performance – SPECjbb 2015

MultiJVM max- / critical-jOPS – **745,690** / 401,277

MultiJVM max- / critical-jOPS – 622,749 / **529,205**

Distributed max- / critical-jOPS – **757,336** / 413,536

Distributed max- / critical-jOPS – 637,526 / **557,903**

4P/8P Server Efficiency – SPECpower_ssj 2008

4P/8P Windows overall ssj_ops/watt = 7550 / 7628

4P/8P Linux overall ssj_ops/watt = 7446 / 7369

All stated results published as of November 9, 2020, see spec.org for more information



EXECUTIVE SUMMARY

The key to winning in today's business climate is to accelerate digital transformation. To become successful, businesses must deliver efficient digital experiences. HPE answer to this demand is the [HPE Superdome Flex 280](#), a new, as-a-service building block for digital transformation, featuring 3rd Generation Intel® Xeon® Scalable Processors.

HPE Superdome Flex 280 achieved six performance world records on the SPECjbb® 2015 benchmark, beating previous 4P, 2nd Generation Intel Scalable Processor results posted by Fujitsu, Inspur, and Huawei by **up to 18.8%**! The results show that this solution delivers the performance necessary to accelerate digital transformation projects.

TABLE 1. Comparison of 4P HPE Superdome Flex 280 3rd generation Intel Xeon Scalable Processors results vs. the previous 4P world record results of competitors' 2nd generation Intel Xeon Scalable Processors.

Benchmark	Competitors 4P world record results with 2 nd Generation Intel Xeon Scalable Processors	HPE Superdome Flex 280 4P world record results with 3 rd Generation Intel Xeon Scalable Processors	Superiority delta of world record results
SPECjbb 2015-MultiJVM max-jOPS	378,668 (157,484 critical-jOPS) Inspur NF8480M5	388,135 (206,258 critical-jOPS)	2.50%
SPECjbb 2015-MultiJVM critical-jOPS	269,614 (318,673 max-jOPS) Lenovo ThinkSystem SR950	299,065 (343,283 max-jOPS)	10.92%
SPECjbb 2015-Composite max-jOPS	276,317 (79,432 critical-jOPS) Huawei 2488H V5	292,945 (138,893 critical-jOPS)	6.02%
SPECjbb 2015-Composite critical-jOPS	207,097 M5 (259,141 max-jOPS) Fujitsu PRIMERGY RX4770	246,148 (282,357 max-jOPS)	18.86%
SPECjbb 2015-Distributed max-jOPS	383,401 (148,387 critical-jOPS) Lenovo ThinkSystem SR950	392,868 (197,861 critical-jOPS)	2.47%
SPECjbb 2015-Distributed critical-jOPS	286,512 (318,763 max-jOPS) Lenovo ThinkSystem SR950	307,891 (347,369 max-jOPS)	7.46%

CUSTOMER VALUE WITH HPE

HPE Superdome Flex 280

HPE Superdome Flex 280 is a new as-a-service building block for digital transformation. It scales from two to eight 3rd Generation Intel® Xeon® Scalable Processors as a single system, and is ideal for small and medium-sized enterprise environments. Extreme Superdome RAS provides increased system uptime, and superior security protects workloads against attacks. Support for [HPE GreenLake](#) offers flexible as-a-service consumption while maintaining on-prem control.

BOTTOM LINE

These results are proof of HPE Superdome Flex 280 superior performance for Java workloads. Customers can be confident that this platform will deliver the speed they need as they advance their transformation journey.

Learn more at

[HPE Superdome Flex 280](#)

[Performance Briefs in Marketing Documents Library](#)

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