PRIMERGY RX2450 M2 Sets 2 Processor World Record with SAP SD Benchmark on 5th Gen AMD EPYC

On December 04, 2024, the PRIMERGY RX2450 M2 achieves a 2 processor world record result of 201,500 SD benchmark users with the two-tier SAP Sales and Distribution (SD) Standard Application Benchmark on 5th Gen AMD EPYC (as of 2024-12-04).
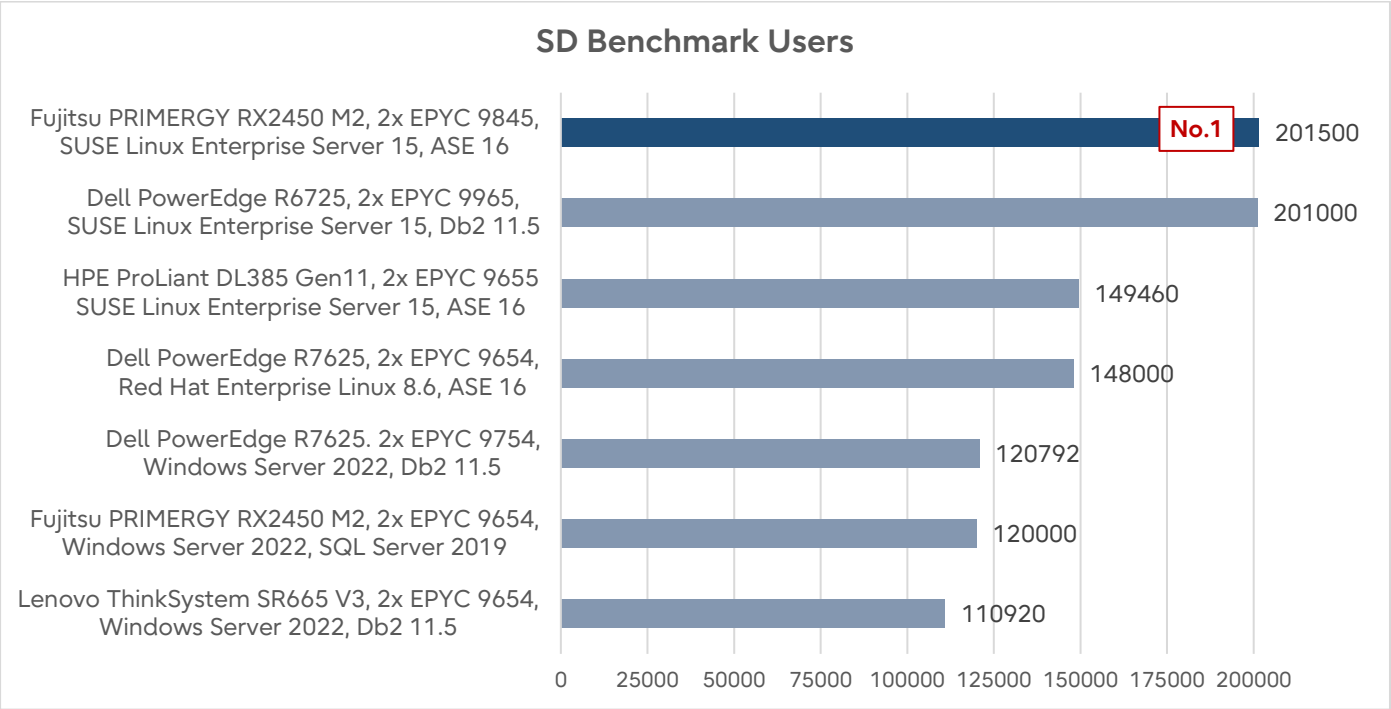
The system was equipped with AMD's EPYC 9005 Series processors 9845, aka Turin (2 processors, 320 cores, 640 threads) and 6,144 GB of DRAM, running the two-tier SAP Sales and Distribution (SD) Standard Application Benchmark on SAP enhancement package 5 for SAP ERP 6.0, SAP ASE 16 and SUSE Linux Enterprise Server 15.

This is an extraordinarily good result with more than 1.1 million SAPS on a two-socket server. Furthermore, the RX2450 M2 shows a higher performance per core and less power consumption compared to Dell's PowerEdge R6725: the RX2450 M2, configured with two AMD EPYC 9845 processors, 160 cores and a TDP of 400 Watts per processor, beats the PowerEdge R6725 with two AMD EPYC 9965 processors, 192 cores and a TDP of 500 Watts per processor, both running SUSE Linux Enterprise Server 15. Both processors are AMD EPYC 9005 Series processors with the ZEN 5c design.

Find more details in the following.

SAP Sales and Distribution (SD) Standard Application Benchmark

Top Results for 2 Processor Systems, as of 2024-12-04

SD Benchmark Users

System	SD Benchmark Users
Fujitsu PRIMERGY RX2450 M2, 2x EPYC 9845, SUSE Linux Enterprise Server 15, ASE 16	No.1 — 201500
Dell PowerEdge R6725, 2x EPYC 9965, SUSE Linux Enterprise Server 15, Db2 11.5	201000
HPE ProLiant DL385 Gen11, 2x EPYC 9655 SUSE Linux Enterprise Server 15, ASE 16	149460
Dell PowerEdge R7625, 2x EPYC 9654, Red Hat Enterprise Linux 8.6, ASE 16	148000
Dell PowerEdge R7625. 2x EPYC 9754, Windows Server 2022, Db2 11.5	120792
Fujitsu PRIMERGY RX2450 M2, 2x EPYC 9654, Windows Server 2022, SQL Server 2019	120000
Lenovo ThinkSystem SR665 V3, 2x EPYC 9654, Windows Server 2022, Db2 11.5	110920

The difference in terms of SD benchmark users is little when comparing RX2540 M2 to Dell's PowerEdge R6725. However, what is extraordinary about the RX2540 M2 result is that it was achieved with significantly fewer CPU cores: the AMD ZEN 5c EPYC 9965 processor has 192 cores, whereas the ZEN 5c EPYC 9845 has 160 cores.

Result Details

- Certification [2024080](#): Fujitsu PRIMERGY RX2450 M2, 2 processors / 320 cores / 640 threads AMD EPYC 9845 processor, 6144 GB DRAM, SAP Sales and Distribution (SD) Standard Application Benchmark, 2-tier configuration, Bare-Metal environment, SAP enhancement package 5 for SAP ERP 6.0, SAP ASE 16, SUSE Linux Enterprise Server 15, 201500 SD benchmark users.

- Certification [2024079](#): HPE ProLiant DL385 Gen11, 2 processors / 192 cores / 384 threads AMD EPYC 9655 processor, 3072 GB DRAM, SAP Sales and Distribution (SD) Standard Application Benchmark, 2-tier configuration, Bare-Metal environment, SAP enhancement package 5 for SAP ERP 6.0, SAP ASE 16, SUSE Linux Enterprise Server 15, 149460 SD benchmark users.

- Certification [2024071](#): Dell PowerEdge R6725, 2 processors / 384 cores / 768 threads AMD EPYC 9965 processor, 3072 GB DRAM, SAP Sales and Distribution (SD) Standard Application Benchmark, 2-tier configuration, Bare-Metal environment, SAP enhancement package 5 for SAP ERP 6.0, Db2 11.5, SUSE Linux Enterprise Server 15, 201000 SD benchmark users.

- Certification [2022029](#): Dell PowerEdge R7625, 2 processors / 192 cores / 384 threads AMD EPYC 9654 processor, 3072 GB DRAM, SAP Sales and Distribution (SD) Standard Application Benchmark, 2-tier configuration, Bare-Metal environment, SAP enhancement package 5 for SAP ERP 6.0, SAP ASE 16, Red Hat Enterprise Linux 8.6, 148000 SD benchmark users.

- Certification [2024014](#): Dell PowerEdge R7625, 2 processors / 256 cores / 512 threads AMD EPYC 9754 processor, 3072 GB DRAM, SAP Sales and Distribution (SD) Standard Application Benchmark, 2-tier configuration, Bare-Metal environment, SAP enhancement package 5 for SAP ERP 6.0, Db2 11.5, Windows Server 2022, 120792 SD benchmark users.

- Certification [2024003](#): Fujitsu PRIMERGY RX2450 M2, 2 processors / 192 cores / 384 threads AMD EPYC 9654 processor, 1536 GB DRAM, SAP Sales and Distribution (SD) Standard Application Benchmark, 2-tier configuration, Bare-Metal environment, SAP enhancement package 5 for SAP ERP 6.0, Microsoft SQL Server 2019, Windows Server 2022, 120000 SD benchmark users.

- Certification [2023018](#): Lenovo ThinkSystem SR665 V3, 2 processors / 192 cores / 384 threads AMD EPYC 9654 processor, 3072 GB DRAM, SAP Sales and Distribution (SD) Standard Application Benchmark, 2-tier configuration, Bare-Metal environment, SAP enhancement package 5 for SAP ERP 6.0, Db2 11.5, Windows Server 2022, 110920 SD benchmark users.

References

SAP
- [SAP Standard Application Benchmarks](#)
- [SAP Sales and Distribution (SD) benchmark results](#)

Fujitsu
- [SAP Standard Application Benchmarks](#)
- [Overview of released Fujitsu Servers for SAP on Linux](#)