

Principled Technologies releases study showcasing consolidation with Supermicro H14 Hyper DP servers

Consolidating legacy servers onto a new Supermicro Hyper DP H14 server with AMD EPYC 9475F processors can help organizations reduce their 5-year TCO

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Organizations holding onto aging server hardware to run their database applications are likely leaving performance on the table. By making the move to newer technology, they can consolidate multiple older servers onto fewer new platforms for potentially significant performance gains over time.

Principled Technologies (PT) compared the transactional database performance of two systems: a five-year-old Supermicro Ultra DP server (model number AS -2124US-TNRP) with AMD EPYC 7532 processors (previously codenamed "Rome") and a new Supermicro H14 Hyper DP server (model number AS -2126HS-TN) with AMD EPYC 9475F processors (previously codenamed "Turin"). Hands-on testing confirmed that moving to the new high-performing Supermicro H14 Hyper DP server could allow organizations to consolidate multiple older servers for big savings over five years.



Principled Technologies®

A Principled Technologies report: Hands-on testing. Real-world results.



Save up to \$2.8M per new server over five years by consolidating with new Supermicro H14 Hyper Dual Processor servers powered by AMD EPYC™ 9475F processors

Moving from 5-year-old Supermicro Ultra DP servers to a new Supermicro H14 Hyper DP server featuring AMD EPYC 9475F processors can help organizations reduce their 5-year TCO by getting stronger database performance in a smaller footprint

When transactional database applications—such as online storefronts, reservation systems, or banking services—are the backbone of your business, maintaining high-performing server infrastructure is vital to meeting user demands and keeping customers happy. If it's been a few years since you've invested in new systems, it's time to investigate the possible performance and cost benefits of consolidating those systems onto fewer new servers. New technology strengthens performance to meet user demands into the future—and it can reduce your operating costs over time.

To determine the performance and cost benefits of migrating to newer technology, Principled Technologies compared the transactional database performance of two server solutions: a five-year-old Supermicro Ultra DP server with previous-generation AMD EPYC 7532 processors and a new Supermicro H14 Hyper DP server with 5th Generation AMD EPYC™ 9475F processors.

Reduce IT costs by up to \$2.8 million per new server with up to 61.8% lower TCO over 5 years*

Get up to 3.78x the database performance and consolidate older servers onto fewer new servers**

Improve energy efficiency and cut costs with up to 65.1% better performance per watt†

*Comparing 5-year TCO of 4x Supermicro Ultra DP servers with previous-generation AMD EPYC 7532 processors vs. 1x new Supermicro H14 Hyper DP server featuring AMD EPYC 9475F processors
**Comparing 1x new Supermicro H14 Hyper DP server featuring AMD EPYC 9475F processors vs. 1x legacy Supermicro Ultra DP server with previous-generation AMD EPYC 7532 processors
†Improving energy efficiency by up to 65.1% per watt

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According to the report, “We found that the Supermicro H14 Hyper DP server made a strong choice for businesses looking to improve their IT outlook over the next several years. A single Supermicro H14 Hyper DP with two AMD EPYC 9475F processors was able to handle 3.78 times the database transactions of the legacy servers, which means it would take four legacy servers to match the work of one new H14 Hyper DP. By our calculations of the five-year total cost of ownership (TCO) for continuing to operate four legacy servers vs. moving to a single Supermicro H14 Hyper DP, consolidating could cut costs by an impressive 61.8 percent—over \$2.8 million in savings. This is possible because by supporting fewer servers, businesses save on ongoing server costs in software licensing, power utilization, rack and data center space, and maintenance.”

The report also estimates that “organizations with larger data centers would see even bigger savings through consolidation. What if you have 20 legacy servers you’re looking to consolidate? Extrapolating from our TCO calculations, continuing to run those 20 servers would cost approximately \$23,404,690 over the next five years. Purchasing five new H14 Hyper DP servers to consolidate the 20 legacy servers would cost \$8,918,453. This means that organizations consolidating 20 servers could save over \$14.4 million over the next 5 years should they choose to refresh their data center with Supermicro H14 Hyper DP servers with AMD EPYC 9475F processors.”

To learn more about the benefits of consolidating older servers onto the new Supermicro H14 Hyper DP with AMD EPYC 9475F processors, read the full report at <https://facts.pt/WT3Go6U>, see the infographic at <https://facts.pt/8MNoV4p>, or watch the video at <https://facts.pt/LtAYalc>

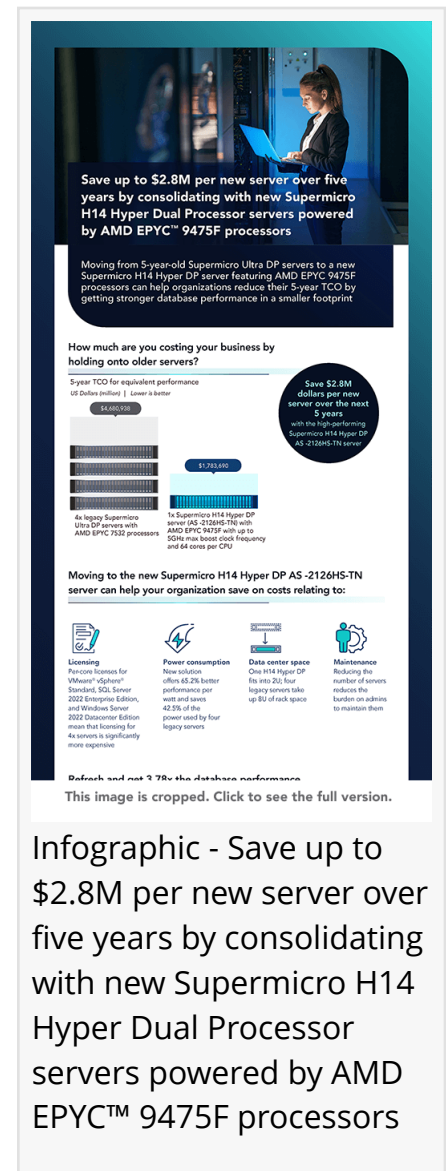
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Principled Technologies, Inc. is the leading provider of technology marketing and learning & development services.

Principled Technologies, Inc. is located in Durham, North Carolina, USA. For more information, please visit www.pricipledtechnologies.com.

Sharon Horton

Principled Technologies, Inc.



press@principledtechnologies.com

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