

# Dell PowerEdge R7625 servers deliver strong analytics performance and energy efficiency in new third-party study

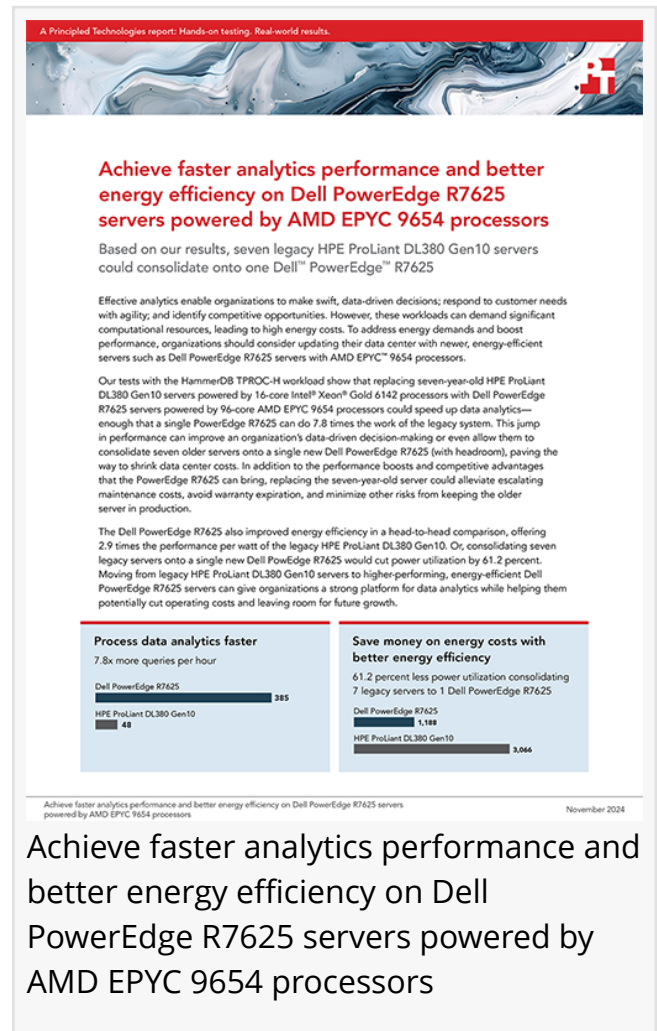
*Companies can enjoy faster data analytics performance and reduce operational costs by consolidating seven legacy servers onto one new server*

ROUND ROCK, TX, UNITED STATES, November 26, 2024 /EINPresswire.com/ -- Data analytics tools help companies make timely, data-driven decisions; quickly respond to customer needs; and capitalize on competitive opportunities. These workloads typically require a great deal of computational resources, which can translate to high energy costs.

A recent report by Principled Technologies (PT) highlights the advantages of upgrading to Dell PowerEdge R7625 servers powered by AMD EPYC 9654 processors. The study reveals that organizations can achieve up to 7.8 times the data analytics performance compared to legacy HPE ProLiant DL380 Gen10 servers, meaning that organizations could consolidate seven of those older servers onto a single new PowerEdge R7625.

In PT testing, the Dell PowerEdge R7625 not only enhanced query processing capabilities, but also offered 2.9 times the performance per watt, delivering substantial reductions in power consumption—up to 61.2 percent less energy usage for the same work. This transition could allow businesses to make quicker data-driven decisions while reducing operational costs associated with maintenance, licensing, and cooling.

According to the report, “If your organization is still running legacy servers like the seven-year-old HPE ProLiant DL380 Gen10, you may expose yourself to the risks of expiring warranties, rising maintenance costs, and more. You also may not be adequately prepared to reap the benefits of



**Achieve faster analytics performance and better energy efficiency on Dell PowerEdge R7625 servers powered by AMD EPYC 9654 processors**

Based on our results, seven legacy HPE ProLiant DL380 Gen10 servers could consolidate onto one Dell™ PowerEdge™ R7625

Effective analytics enable organizations to make swift, data-driven decisions; respond to customer needs with agility; and identify competitive opportunities. However, these workloads can demand significant computational resources, leading to high energy costs. To address energy demands and boost performance, organizations should consider updating their data center with newer, energy-efficient servers such as Dell PowerEdge R7625 servers with AMD EPYC™ 9654 processors.

Our tests with the HammerDB TPROC-H workload show that replacing seven-year-old HPE ProLiant DL380 Gen10 servers powered by 16-core Intel® Xeon® Gold 6142 processors with Dell PowerEdge R7625 servers powered by 96-core AMD EPYC 9654 processors could speed up data analytics—enough that a single PowerEdge R7625 can do 7.8 times the work of the legacy system. This jump in performance can improve an organization's data-driven decision-making or even allow them to consolidate seven older servers onto a single new Dell PowerEdge R7625 (with headroom), paving the way to shrink data center costs. In addition to the performance boosts and competitive advantages that the PowerEdge R7625 can bring, replacing the seven-year-old server could alleviate escalating maintenance costs, avoid warranty expiration, and minimize other risks from keeping the older server in production.

The Dell PowerEdge R7625 also improved energy efficiency in a head-to-head comparison, offering 2.9 times the performance per watt of the legacy HPE ProLiant DL380 Gen10. Or, consolidating seven legacy servers onto a single new Dell PowerEdge R7625 would cut power utilization by 61.2 percent. Moving from legacy HPE ProLiant DL380 Gen10 servers to higher-performing, energy-efficient Dell PowerEdge R7625 servers can give organizations a strong platform for data analytics while helping them potentially cut operating costs and leaving room for future growth.

Process data analytics faster	Save money on energy costs with better energy efficiency
7.8x more queries per hour	61.2 percent less power utilization consolidating 7 legacy servers to 1 Dell PowerEdge R7625
Dell PowerEdge R7625: 385	Dell PowerEdge R7625: 1,188
HPE ProLiant DL380 Gen10: 48	HPE ProLiant DL380 Gen10: 3,066

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high-powered analytics workloads. You may eventually complete your data analytics queries, but you could get answers faster and improve energy efficiency in your data center by moving to new Dell PowerEdge R7625 servers with AMD EPYC 9654 processors."

The report goes on to state: "The Dell PowerEdge R7625 completed up to 7.8 times as many TPROC-H query sets per hour and offered 2.9 times the performance per watt compared to a legacy HPE ProLiant DL380 Gen10. These performance gains mean that you could also take the path of consolidating seven older systems onto a single Dell PowerEdge R7625, which can save on operating costs including maintenance, server licensing, power and cooling, rack space, and more."

To learn more, view the report at <https://facts.pt/3qhZD07> or its accompanying infographic at <https://facts.pt/0Cz7wol>.

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

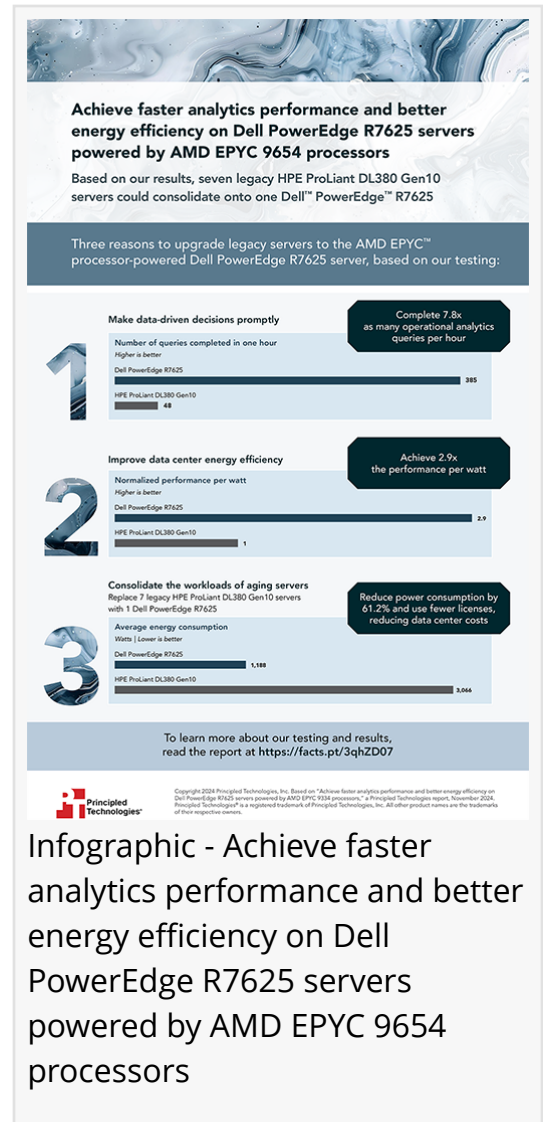
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