

# HPE APOLLO 2000 GEN10 PLUS SYSTEM WITH HPE PROLIANT XL225N GEN10 PLUS SERVERS ACHIEVES 18 WORLD RECORDS IN ENERGY EFFICIENCY!

Overall leadership with 2-node, 3-node, and 4-node 3<sup>rd</sup> Gen AMD EPYC™ processor results



### Key takeaways

- #1 overall 2-node, 3-node, and 4-node results
- #1 2P 2-node, 3-node, and 4-node results
- #1 Linux® 2-node, 3-node, and 4-node results
- #1 Linux 2P 2-node, 3-node, and 4-node results
- #1 Windows® 2-node, 3-node, and 4-node results
- #1 Windows 2P 2-node, 3-node, and 4-node results
- The first multi-node system that beat the 17,000 overall ssj\_ops/watt barrier

### HPE ProLiant XL225n Gen10 Plus configuration

The server was configured with the latest 3<sup>rd</sup> Gen AMD EPYC™ 77xx Series processors. See [spec.org](https://spec.org) for more detailed information. All stated results as of March 15, 2021.

### What the SPECpower\_ssj2008 benchmark measures

The industry-standard SPECpower\_ssj2008 benchmark measures the energy efficiency of enterprise servers. Its server-side Java workload exercises the CPUs, caches, memory hierarchy, and the scalability of shared memory processors (SMPs) that allows for a fair server comparison across the industry.

It also measures the power and performance characteristics at eleven different load levels from idle and 0% utilization up to 100% active to mimic real-world situations. Once all this data across the load levels is gathered, an overall power-performance metric is calculated. Since the SPECpower\_ssj2008 benchmark is a defined measurement standard, it allows for an easy comparison to other configurations and servers.

\*Using 2<sup>nd</sup> Gen AMD EPYC processors

## EXECUTIVE SUMMARY

The highly dense [HPE Apollo 2000 System Gen10 Plus System](#) with [HPE ProLiant XL225n Gen10 Plus](#) servers is a leader of energy-efficient multi-node platforms that deliver real space and power savings to data centers of any size.

Taking energy efficiency to the max, the server had the highest result of 17,696 overall ssj\_ops/watt for 4-node configurations on the SPECpower\_ssj® 2008 benchmark. With this platform, it is estimated that customers can see up to \$15,000 USD in annual energy cost savings.<sup>1</sup>



#1 overall

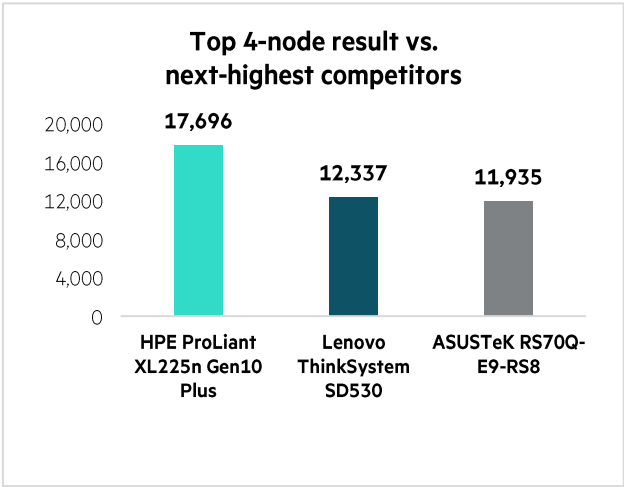
#1 Linux

#1 Windows

Up to 54%  
higher  
energy  
efficiency

**Table 1.** The HPE ProLiant XL225n Gen10 Plus swept all 2-node, 3-node, and 4-node categories for overall, Linux, and Windows leadership.

Processors / nodes	HPE ProLiant XL225n Gen10 Plus overall ssj_ops/watt
2P 2-node	16,320
2P 3-node	17,336
2P 4-node	17,696
2P 2-node	16,320
2P 3-node	17,336
2P 4-node	17,696
2P 2-node	15,574
2P 3-node	16,205
2P 4-node*	17,530*



**Figure 1.** HPE Apollo 2000 Gen10 Plus System with HPE ProLiant XL225n Gen10 Plus servers compared to 4-node top competitors

## CUSTOMER VALUE WITH HPE

HPE Apollo 2000 Gen10 Plus platform is the energy-efficient, rack-optimized, high-performance system ready to power the HPC workflows defining the next era of computing and enterprise digital transformation. The Apollo 2000 Gen10 Plus has the flexibility to meet the precise needs of workloads with the right compute, I/O, and storage options.

## BOTTOM LINE

Don't compromise—choose the HPE Apollo 2000 System Gen10 Plus for the most energy-efficient and high-performance computing.

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[HPE and AMD EPYC](#)

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<sup>1</sup> Annual energy cost and rack space calculated based on performance envelope of a 42U rack populated with HPE ProLiant XL225n Gen10 Plus servers running at 100% versus the energy and rack space required by competitor products to achieve the same performance. Average price for kWh = \$0.0693 US.

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a50003876enw, March 2021