Lenovo
TruScale

Accelerate Time to Insight with TruScale for HPC

Lenovo TruScale for HPC delivers the power of supercomputing to organizations of all sizes – with a flexible pay-as-you-go model

Smarter technology for all

Lenovo

Organizations today demand faster results and greater insights into their operation. They understand the need to process vast amounts of data to compete and have tasked their IT resources with implementing big data, machine learning and artificial intelligence (AI) initiatives that can give them an edge – whether that's taking their organization's research to the next level, helping solve ever-more complex problems, or enabling them to go to market faster.

Central to this requirement is the need for high-speed, accurate data processing in real and near real time. Here, High Performance Computing (HPC) is transforming industries by solving complex problems across every sector.

- Spending on HPC (both on-premise and cloud) grew from $30.6 billion in 2020 to $34.8 billion in 2021 – an increase of 13.8%.[1]

- For 2021, the use of public clouds for HPC workloads represented an additional $5.1 billion spending on HPC, equaling 18.6% growth over 2020.[2]

- HPC revenue is expected to increase from $42 billion in 2021 to $71.8 billion in 2030.[3]

- The global HPC as-a-Service market size is projected to reach $17 billion by 2026, a growth of 13.3% from 2019 to 2026.[4]

Why TruScale for HPC?

Simply put, as a business, your organization wants flexibility, agility, and the ability to scale your IT on demand. You want fast access to state-of-the-art HPC resources when and as needed, to pay for those resources through a flexible pay-as-you-grow model. And, crucially, you want a trusted partner to do the heavy lifting to support your IT team and fill any gaps in resources.

The good news? You can choose an 'as-a-service' HPC solution with all the flexibility, scalability, and economic consumption model of the cloud, combined with the security, control and reliability of on-premise infrastructure.

Lenovo TruScale:
the simplest path to additional HPC resources on demand

Lenovo TruScale for HPC provides simplified access to HPC technology through a flexible on-demand model combining hardware, software, and services into a single, configurable solution with a predictable and affordable regular fee.

Delivered as a service, TruScale HPC helps accelerate innovation by giving access to the latest industry-leading solutions through a no-risk, no-surprise, pay-as-you-grow model. In essence, it combines the best of on-premise and the cloud in a single solution.

The benefits are clear. Firstly, there is no need for capital investment, and you can avoid long procurement cycles with our OPEX model. Additionally, TruScale simplifies data center management and the provisioning of IT, alleviating budget and staffing constraints. This gives you the time and resources to focus on accelerating business outcomes and achieving competitive advantage.

TruScale brings options for traditional leases and a consumption-based model with an innovative HPC exclusive metering capability based on compute resources (cores, memory, GPU, storage, licenses, etc.) used by HPC jobs. It leverages Lenovo Intelligent Computing Orchestration (LiCO) for usage metering, and billing. LiCO also supports REST API to allow integration with customer or third-party automation.

Empowering

Lenovo TruScale for HPC delivers the power and performance your team needs to do their very best.

* Solutions from the pocket to the data center to the cloud

* Frees up IT teams to focus on innovation

* Faster time to insight

Versatile

Lenovo TruScale provides comprehensive hardware, software, and service options. This allows you to choose the solutions that fit your needs and scale seamlessly for future growth while reducing capital expenses.

* Unmatched program flexibility

* Ability to scale up/down or pause to meet evolving needs

* Simplified support from HPC experts

* Support and management throughout the lifecycle of IT resources

* Third-party software support

Trusted

You need a partner that can deliver reliably at scale across multiple markets. As a global technology leader and trusted partner, Lenovo is uniquely positioned to deliver innovative solutions no matter where organizations operate.

* #1 PC manufacturer in the world

* #1 in Lenovo ThinkSystem server reliability for seven consecutive years

* Delivered products to six of the top 10 hyperscalers in the world

* Certifications and coverage in 100+ markets

* Central financing/invoicing/contracting/delivery model to support complex global deals

* Well-established as-a-service programs in place

What is included in the TruScale HPC Solution?

- Solution sizing and architecture
- Implementation & deployment
- Customer care, monitoring & health reviews
- Use resources as needed, choose a payment plan according to your business needs
- Hardware support provided by HPC experts
- Flexible commitments and monthly payments

Lenovo TruScale HPC model means you benefit from state-of-the-art technology now and in the future. Refresh technology as it becomes obsolete, while we manage any upgrades and replacements.

Take complete control of your environment with a real-time dashboard that lets you manage and predict costs.

All this enables your organization to respond faster to rapidly changing market and customer demands, and continue to drive digital innovation with greater agility and flexibility.

Lenovo TruScale

Want to find out more?

To learn more about how Lenovo's HPC offering can help take your business forward, go to **https://techtoday.lenovo.com/us/en/iaas** or reach out to one of our experts on **truscale@lenovo.com**

truscale.com

1   https://www.hpcwire.com/off-the-wire/hyperion-research-announces-2021-hpc-market-growth-13-8-percent-over-previous-year/
2   https://www.hpcwire.com/off-the-wire/hyperion-research-announces-2021-hpc-market-growth-13-8-percent-over-previous-year/
3   https://www.emergenresearch.com/press-release/global-high-performance-computing-market
4   https://www.alliedmarketresearch.com/high-performance-computing-as-a-service-market#:~:text=High%20Performance%20Computing%20
     (HPC)%20as%20a%20Service%20Market%20Statistics,13.3%25%20from%202019%20to%202026