Hewlett Packard Enterprise

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CONSUME HPC LIKE A UTILITY WITH HPE GREENLAKE FOR HPC

Focus on solving complex problems, not configuring complex infrastructure. HPE GreenLake for HPC solutions combine our leading-edge technologies, computing expertise and professional services in one seamless experience.

Isn't public cloud the answer?

Public cloud may be flexible, but it can also be inefficient, difficult to configure and less performant than on-premises systems for HPC workloads.

$26.6 USD billion was wasted on public cloud in 2021[1]

50% of public cloud customers overspent in 2020[1]

0.5x AWS and Oracle® cloud platforms delivered half the price-performance of HPE solutions powered by AMD EPYC™ CPUs[2]

THE HPE GREENLAKE EXPERIENCE

Choose your solution — HPE GreenLake for HPC solutions are pre-optimised for workloads like Ansys, GROMACS, HPL and OpenFOAM.

Install — Locate HPC workloads where your data is – at your data centre, colocation or edge.

Deploy easily — HPE provides the services you need to get up and running.

Pay as you use — Right size for your environment. Avoid overprovisioning. Pay only for what you consume.[3]

Tune and optimise — HPE experts handle performance tuning, capacity planning, lifecycle management, firmware updating and patch management.

Scale flexibility — Readily address demand increases with an on-site capacity buffer and cloud services from the HPE partner ecosystem.

ACCESS THE FULL HPE PORTFOLIO

Choose from our full range of HPC-focused systems, including those powered by industry-leading AMD EPYC processors.

World Leading Performance:

AMD EPYC CPUs can deliver up to 64 cores, high memory bandwidth and vast I/O, enabling accelerated performance for the most demanding workloads. With more than 200 world records across multiple platforms, AMD has a solution to suit your business needs in private and public cloud environments.[4]

Advanced Security Features:

AMD Infinity Guard is a leading set of security features that help complement industry ecosystem partners at the software and system levels. With AMD Secure Encrypted Virtualization (SEV) technologies, AMD EPYC CPUs help safeguard privacy and integrity by encrypting each virtual machine.[5]

Sound Economics:

A combination of architecture and core density creates an attractive x86 price performance ratio that results in a disruptive pricing model to help customers optimise their infrastructure.

WHY SIMPLE HPC IS A COMPLEX PROBLEM

HPC is about solving the world's toughest problems and stretching computing performance to its limit. HPC platforms are often complex because they are at the cutting edge. We have put all of our expertise, and the best of HPE technologies and services, into creating utility-like HPC solutions that speed time to value.

> "Any intelligent fool can make things bigger and more complex. It takes a touch of genius and a lot of courage to move in the opposite direction."
>
> E. F. Schumacher, Economist

LEARN MORE AT

hpe.com/greenlake/hpc

[1] parkmycloud.com/blog/overprovisioning/

[2] Based on the HPE PPT 'GL for HPC perf benchmarks v0.8' Configurations:
HPE GL for HPC: Aruba RoCE 100 Gbps, AMD ROME 7302, 16-Core (32 cores per node)
AWS: ec5n_18xlarge (EFA 100 Gbps, Intel® Xeon® Platinum 8124M, 36 cores per node)
Oracle Cloud: HPC_36 (Mellanox EDR 100 Gbps, Intel® Xeon® Gold 6154, 36 cores per node)

[3] Above a reserve

[4] amd.com/en/processors/epyc-world-records

[5] AMD Infinity Guard features vary by EPYC™ Processor generations. Infinity Guard security features must be enabled by server OEMs and/or Cloud Service Providers to operate. Check with your OEM or provider to confirm support of these features. Learn more about Infinity Guard at amd.com/en/technologies/infinity-guard. GD-183.

Make the right purchase decision. Contact our presales specialists.

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