HPE Cray

Solution brief

HPE Cray Supercomputing EX solution

What's new?

- World's most powerful supercomputer (El Capitan)[1]
- Three out of three of the world's double-precision exascale machines[2]
- Three out of three of the world's most powerful mixed-precision (high performance computing [HPC] / artificial intelligence [AI]) supercomputers[3]
- 7 out of 10 of the world's most powerful supercomputers[4]
- 8 out of the world's 15 most energy-efficient supercomputers[5]
- More than 60% of the aggregate compute power of the world's most powerful 100 supercomputers[6]

Overview

The HPE Cray Supercomputing EX solution is the computational backbone of national research, national weather forecasting, homeland security, and sovereign AI in many nations around the world. Many of the brightest minds of humankind—the scientists and researchers who are using the HPE Cray SC EX solution—are tackling the grand challenges of humankind with it that is fully aligned with HPE's enduring purpose, which is to advance the way people live and work.

It is purpose-engineered for the three key supercomputing workloads that are running in converged workflows on one machine:

- Scientific modeling and simulation (MOD/SIM)
- AI and machine learning (ML)
- High performance data analytics (HPDA).

[1,2,3,4,6] Internal analysis of the Top 100 supercomputer ranked in the Top 500 list, TOP500, November 2024

[5] Internal analysis of the most energy-efficient supercomputers ranked in the Green500 list, Top500.org, November 2024.

HPE GreenLake

Key value propositions

Powerful supercomputing

As evidenced by the leading position in the ranking of the world's most powerful supercomputers,[7] the HPE Cray SC EX solution powers the world's fastest supercomputers.

Efficient supercomputing

As evidenced by the leading position in the ranking of the world's most energy-efficient supercomputers,[8] the HPE Cray SC EX solution leads in energy-efficient supercomputing.

Complete supercomputing

As evidenced by Figure 1, the HPE Cray SC EX solution is the world's most complete supercomputing solution with intellectual property across software, direct liquid cooling, compute, interconnect, and storage—delivered to you as a turnkey solution so that you can achieve your mission faster.

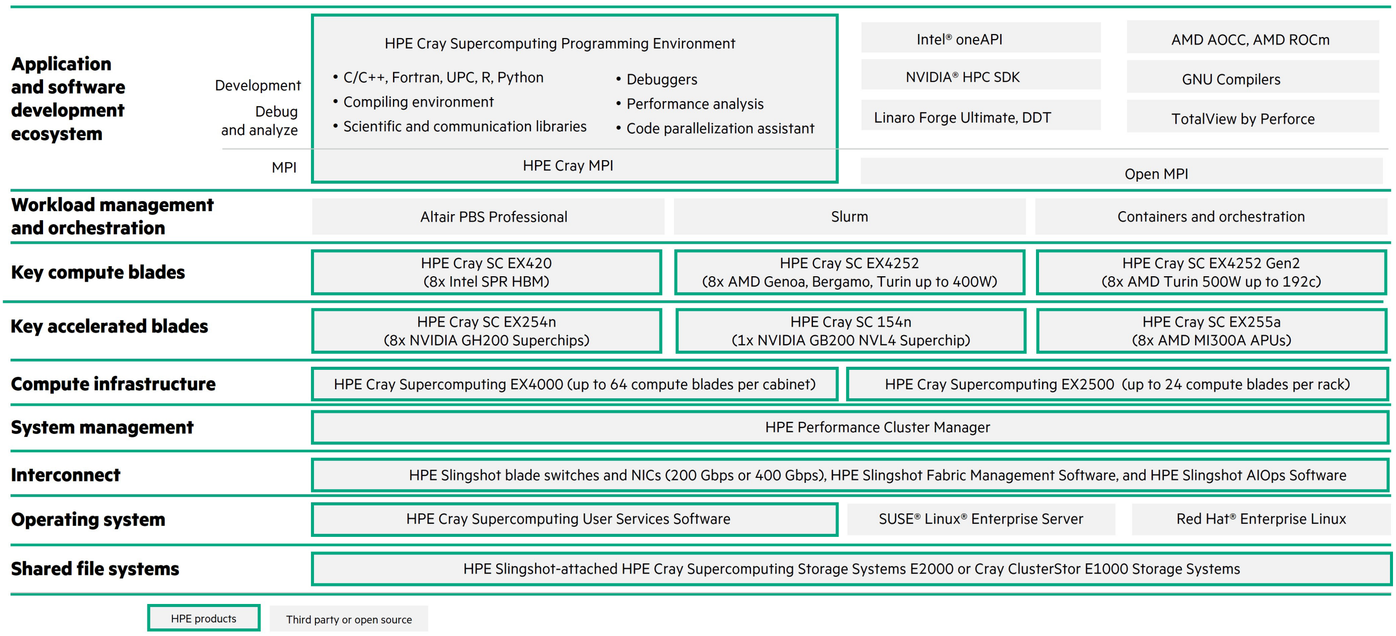

Figure 1. The components of the HPE Cray Supercomputing EX solution

No matter where you are in your supercomputing journey, you can count on HPE Cray SC EX to get you to your destination faster and in a more efficient way than other supercomputing solutions. From strategy and planning to design and deployment, ongoing operations, and beyond, our supercomputing experts can help you achieve your ambitions.

For additional technical information, available models, and options, reference the QuickSpecs.

[7, 8] Internal analysis of the Top 100 supercomputer ranked in the Top 500 list, TOP500, November 2024

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