



Search the ECP Website...

- HomeAbout ▾Research ▾News ▾PodcastTraining ▾LibraryContact
- Overview

Overview

Latest News

Training
- Leadership

Applications

Announcements

Workforce
- Industry

Software

Exa-News Updates

Panel Series
- Broaden

Hardware & I

Media Contact
- Laboratory

Reports
- Fact Sheet

News

Feature

Highlight

Summary

Advancing the Additive Manufacturing Revolution

The methods used to fabricate metal parts have changed remarkably little in the past few centuries

Source: [ECP](#)

Clover: A Trifecta of Vendor-Agnostic, GPU-Accelerated Numerical Libraries

Numerical libraries have an enormous impact on scientific computing because they act as the gateway middleware that enables many applications to run on state-of-the-art

Source: [ECP](#)

EXAALT researchers explore speculative task methods to improve scalability

A team working on the ECP's Exascale Atomistic Capability for Accuracy, Length, and Time (EXAALT) project has developed a task-level speculative method

Source: [ECP](#)

WHAT ARE EXASCALE AND THE EXASCALE COMPUTING PROJECT?

Exascale is the next milestone achievement in computing, offering 1,000 times more speed and power than today's most advanced supercomputers. The US Department of Energy's ECP aims to ensure that all the necessary pieces are in place for the nation's first exascale systems.

IN THE NEWS

- [DOE Exascale Computing Project to Advance Metal AM](#)  
3dprinting.com
- [EQSIM shakes up earthquake research at exascale](#)  
Scientific Computing World
- [Exascale Computing Project Details EQSIM's Progress in Advancing Earthquake Research](#)  
HPCwire

More

Upcoming Training Events


- [ECP Tutorial Days](#)  
*February 6, 2023 - February 10, 2023*
- [2023 ECP Community BOF Days](#)  
*February 14, 2023 - February 16, 2023*
- [Strategies for Inclusive Mentorship in Computing](#)  
*March 16, 2023*

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Exascale Computing...  
Episode 101: Di...



20



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Exascale Computing Project · Episode 101: Discussing NERSC's Unique Global Role and Close Collaboration with ECP

Latest Episodes


Episode	Title	Guest	Time
101	<a href="#">Discussing NERSC's Unique Global Role and Close Collaboration with ECP</a>	Richard Gerber	29:39
100	<a href="#">Reflecting on the 'Why' behind Supercomputing Simulations: Advancing Science</a>	Bronson Messer	28:03
99	<a href="#">ECP's WarpX Team Successfully Models Promising Laser Plasma Accelerator Technology</a>	Jean-Luc Vay, Axel Huebl, Henri Vincenti, and Luca Fedeli	32:14
98	<a href="#">Providing Exascale-Class Multiphysics Simulation Capability to Multiple Science Domains</a>	Anshu Dubey and J. Austin Harris	29:55
97	<a href="#">Enabling Highly Accurate and Reliable Predictions of the Basic Properties of Materials"</a>	Paul Kent	22:27
96	<a href="#">Leveraging Machine Learning for Computational and Experimental Science and Engineering</a>	Logan Ward	18:26
95	<a href="#">Enabling Cross-Project Research to Strengthen Math Libraries for Scientific Simulations</a>	Natalie Beams	24:23

Featured Videos

IDEAS-ECP Webinar: Openscapes — supporting better science for future us

IDEAS-ECP Webinar: Lab Notebooks for Computational Mathematics, Sciences & Engineering

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Exascale Computing Project

@exascaleproject


3h

February 6–10: the virtual ECP Tutorial Days, covering best practices for exascale-era systems. Among the topics: power management on [#exascale](#) platforms, performance evaluation using TAU, auto-tuning tools, and more. Visit the ECP website to sign up! <https://tinyurl.com/xdhhyyp5> [#HPC](#)

2

3

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29 Jan

ICYMI: The Exascale Computing Project 2023 Community Birds-of-a-Feather Days are February 14–16. The event enables the [#hpc](#) community to engage with ECP teams. Find out [more](#) on ECP's website, including details about the various sessions! <https://tinyurl.com/y56px5pd> [#exascale](#)

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2

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28 Jan

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3

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