ARGONNE ATPESC 10 EXTREME-SCALE COMPUTING

Next Steps

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Access Expirations

- Account expirations
  - ALCF - 9/2 (* see next slide for extension)
    - No more reservations – run in regular queues after today
  - NERSC – 8/19 (next Friday)
  - OLCF – 8/12 ? (today)

- Slack – tear down after Wed 8/24
  - Download anything you want to save before then. Most slides are already linked on the web agenda.

ALCF Account Next Steps

- The ATPESC2022 allocation expires 9/2.
  - FN accounts will expire on 9/2 unless you apply for your own allocation (below)
  - US citizen accounts will typically be valid for 1 year however you won't be able to run anything
  - If your account expires you will not be able to log in.
- To continue your work without interruption, apply for a Director's Discretionary (DD) allocation as soon as possible by visiting: https://www.alcf.anl.gov/science/directors-discretionary-allocation-program
  - Target allocation size roughly 10k node-hours on Theta (~ 1k node-hours on ThetaGPU)
- In the "detailed description" box make sure to include
  - I attended ATPESC 2022
  - If selected purpose is proposal preparation, mention proposal plans and what is needed to prepare

Director’s Discretionary Allocation Program

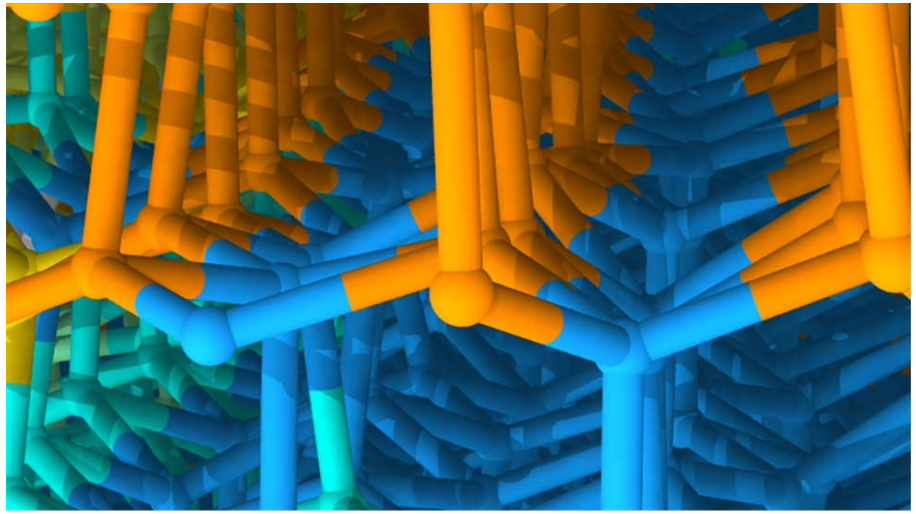
The ALCF Director’s Discretionary (DD) program provides “start up” awards to researchers working to achieve computational readiness for a major allocation award.

Eligibility: Available to researchers from universities, industry, and government agencies DOE sponsorship is not required.

Award size: Small (~ 10k node-hours on Theta, ~ 1k on ThetaGPU)

Duration: 3-6 months (renewable)

Allocation cycle: Ongoing (available year-round)



Molecular dynamics simulations based on machine learning help scientists learn about the movement of the boundary between ice grains (yellow/green/cyan) and the stacking disorder that occurs when hexagonal (orange) and cubic (blue) pieces of ice freeze together. Image: Henry Chan and Subramanian Sankaranarayanan, Argonne National Laboratory

INCITE

Innovative & Novel Computational Impact on Theory and Experiment

https://www.doeleadershipcomputing.org/proposal/call-for-proposals/

The DOE's INCITE program provides allocations to computationally intensive, large-scale research projects that aim to address "grand challenges" in science and engineering.

Deadline: TBA (June 2023)

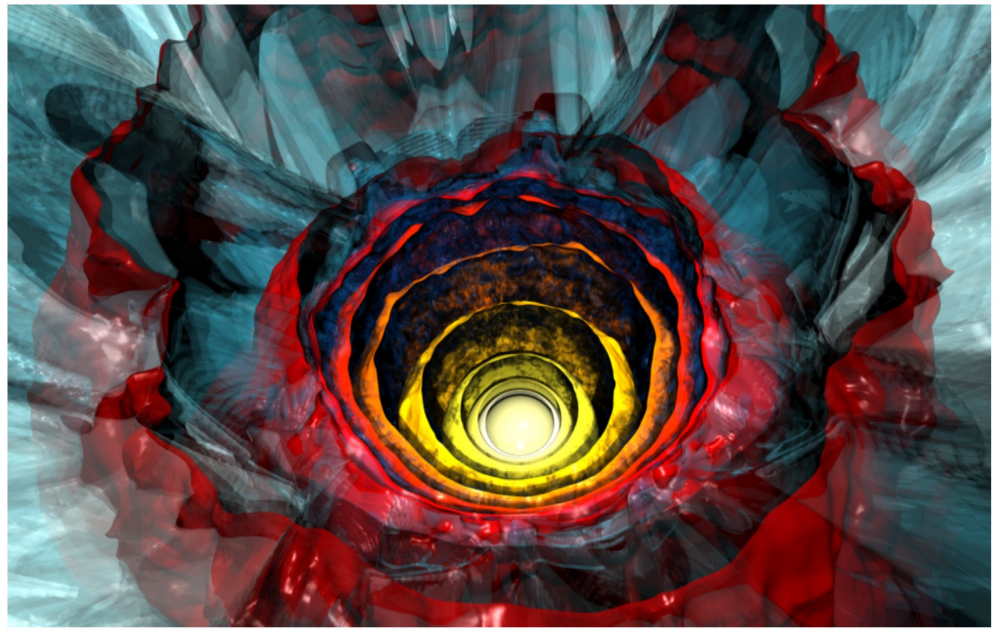
Eligibility: Available to researchers in academia, industry, and other research institutions

Review process: INCITE program conducts a two-part review of all proposals including a peer review by an international panel of experts, and a computational-readiness review

Award size: ~1.0-3.0M node-hours

Award duration: 1-3 years, renewable

Total percent of ALCF resources allocated: 60%



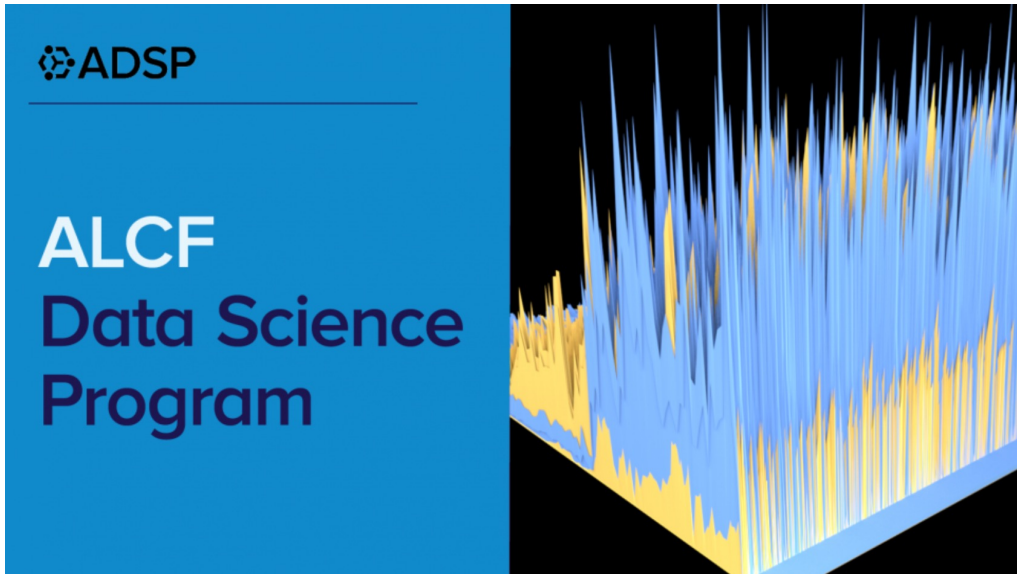
Lars Bildsten of the Kavli Institute for Theoretical Physics is leading a 2020 INCITE project that is using Argonne's Theta supercomputer to perform radiation hydrodynamic simulations of massive stars with rotation. (Image: Joseph A. Insley, Argonne National Laboratory)

ADSP

ALCF Data Science Program
https://www.doeleadershipcomputing.org/proposal/call-for-proposals/

The ALCF Data Science Program (ADSP) supports data-intensive projects that require the scale and performance of leadership-class supercomputers.

ADSP Call Details: https://www.alcf.anl.gov/adsp-call-details
Eligibility: Available to researchers from universities, industry, and government agencies
Award size: Large
Award duration: 1-2 years (renewable)
Allocation cycle: November - October
Call for proposals: Annual



Please complete the ATPESC Final Evaluation **NOW**

https://www.surveymonkey.com/r/6HZTVX3

Thank you!