Wrap-up and logistics

Argonne Training Program on Extreme-Scale Computing (ATPESC)

Paul Messina
Director of Science
Argonne Leadership Computing Facility
Argonne National Laboratory
Want to keep your ALCF account?

- The ATPESC project and your accounts will be active until October 1, 2015
- Use the account responsibly, no huge long runs. If usage is too high, we will have to terminate accounts and possibly the project

- Extending 593s for foreign nationals is not an issue as long as your INS documentation is valid until October 1\textsuperscript{st}
  - Details on next slide

and – if you are interested

- Apply for a Director’s Discretionary allocation to ensure an active account beyond October 1
Extending 593s for foreign nationals

- Please re-check your account information here: https://accounts.alcf.anl.gov/accounts/account.php
  - Specifically: 'Citizenship Information’ section
- Note that accounts.alcf.anl.gov does NOT require use of cryptocard - you set this password when you created an account
  - Call 866-508-9181 to reset the password if you have forgotten it
- We may contact you for additional paperwork
## Allocation Programs at the LCFs

<table>
<thead>
<tr>
<th>60%</th>
<th>INCITE</th>
<th>30%</th>
<th>ALCC</th>
<th>10%</th>
<th>Director’s Discretionary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mission</strong></td>
<td>High-risk, high-payoff science that requires LCF-scale resources</td>
<td>High-risk, high-payoff science aligned with DOE mission</td>
<td>Prepare INCITE, ALCC proposals</td>
<td>Strategic LCF goals</td>
<td></td>
</tr>
<tr>
<td><strong>Call</strong></td>
<td>1x/year – (Closes June)</td>
<td>1x/year – (Closes February)</td>
<td>Rolling</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>1-3 years, yearly renewal</td>
<td>1 year</td>
<td>3m, 6m, 1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Typical Size</strong></td>
<td>30 - 40 projects</td>
<td>50M - 500M core-hours/yr.</td>
<td>10 - 20 projects</td>
<td>10M – 300+M core-hours/yr.</td>
<td>100s of projects</td>
</tr>
<tr>
<td><strong>Review Process</strong></td>
<td>Scientific Peer-Review</td>
<td>Computational Readiness</td>
<td>Scientific Peer-Review</td>
<td>Computational Readiness</td>
<td>Strategic impact and feasibility</td>
</tr>
<tr>
<td><strong>Managed By</strong></td>
<td>INCITE management committee (ALCF &amp; OLCF)</td>
<td>DOE Office of Science</td>
<td>LCF management</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Readiness</strong></td>
<td>High</td>
<td>Medium to High</td>
<td>Low to High</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Availability</strong></td>
<td>Open to all scientific researchers and organizations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Capability > 131,072 cores (16.7% of Mira)**
Getting time on Titan

https://www.olcf.ornl.gov/

- You can request time on Titan through the OLCF Director’s Discretionary Program
- https://www.olcf.ornl.gov/support/getting-started/olcf-director-discretion-project-application/
- Typically the program awards 1-3M Titan core hours
- Aimed at pilot projects, GPU porting, INCITE/ALCC prep and more
How to Get Access to NERSC Resources

- **“ERCAP” allocations process**
  - 80% of compute hours allocated by DOE program managers to projects doing research within the DOE mission
  - 10% allocated through ALCC (high-risk, high-payoff)

- **NERSC Director’s Reserve for strategic projects**
  - 10% of computer time (250 M hours)

- **Startup Projects**
  - Investigate how your code will run on HPC systems
  - At NERSC’s discretion
  - Up to 50 K hours for 18 months

Apply for your first NERSC allocation:
http://www.nersc.gov/users/accounts/allocations/first-allocation/
A few reminders

- Please return your OLCF cryptocard tokens before you leave; your access to the OLCF systems expires August 14, 2015
- For those of you who are *not* planning to continue using your ALCF user account, please return your cryptocard tokens before you leave
Boarding passes, luggage, limos

- Should you have boarding passes you need printed, please send to support@extremecomputingtraining.anl.gov
- We will print them out for you to pick up in the office (Picasso room) before noon today.
- Tomorrow morning you may bring your luggage to this building or ask the hotel to keep it until you leave
- A-1 Limo will pick you up in front of the hotel lobby, per scheduled reservations.
For those of you who drove here

- To be reimbursed for mileage, please Google the "shortest" route from home to Pheasant Run. If tolls are involved, please provide the toll amount for the round trip.

We will be processing travel reimbursement in the next couple of weeks but these may take additional time to get through the system.
Educational and Job Opportunities @ ALCF

- **Research Efforts**
  - Computational Science
  - Computer Science
  - Technical Communication
  - Operations Research

- **ALCF Director’s postdoctoral program (3 years)**

- **Divisional postdoctoral positions (3 years)**

- **PhD dissertation support**

- **Undergraduate and graduate internships**
  - And advanced high-school level

- **Faculty research participation**
For information on the educational, postdoctoral, and faculty programs at Argonne National Laboratory

- http://www.anl.gov/education
2015 ‘ATPESC’ers: Keep in Touch!

- Subscribe to Newsbytes, the monthly newsletter from the Argonne Leadership Computing Facility
  To subscribe, go to our homepage at www.alcf.anl.gov and enter your email in the box at the bottom right of the page.

- “Like” the Argonne Leadership Computing Facility on facebook!
ATPESC Social Media
ATPESC Social Media

Like us on Facebook

- Share your experience on the ATPESC Facebook page
  - Share your photos
  - Share something that you didn’t know before
  - Share how this will help your career
  - Share how wonderful the lecturers are
  - Share interesting articles on Computational Science using HPC
  - Facebook.com/atpesc

- The page is open to the public and allows anyone to add postings, photos, and videos. All posts will be moderated by ALCF staff.
ATPESC Social Media

Argonne Training Program on Extreme-Scale Computing

Start a discussion with your group

Enter a discussion title

ATPESC 2015 set to groom new generation of supercomputer users

We are excited for the start of this year’s training program! http://goo.gl/rCfgi

Comment (0) • Like (0) • Unfollow

Your group contribution level

Start by commenting in a discussion. Group participants get 4x the number of profile views.

Changes for messaging group members

We’ve updated the rules for messaging the Out of Network members in your Groups to prevent abuse. To read more about how we’ve improved Groups, visit our Help Center.
ATPESC Social Media

Join our ATPESC LinkedIn Group

- Open to all ATPESC alumni; private for members-only
  - Start a discussion
  - Share job openings
  - Share interesting articles related to the group
  - Share the value of your ATPESC experience
  - Share opportunities
  - Search group name: Argonne Training Program on Extreme-Scale Computing
  - URL: linkedin.com/grp/home?gid=8355790

- The ATPESC group on LinkedIn is closed and only members can see and participate in group discussions.
Help us continue offering the ATPESC

- if you ever find sometime later that some portion of the class was particularly useful for what you are doing or helped you get a job, please let us know
- Such anecdotes help us make the case with the sponsors for continued funding of the program in future years
A few thanks *(names in alphabetic order)*

- **Local arrangements and countless logistics**
  - Ashley Boyle, Ginny Doyle, Julie Smagacz, Cheryl Zidel

- **Operations**
  - Tommie Jackson, Ben Lenard, Skip Reddy, Paul Rich, Adam Scovel

- **ALCF User Services**
  - Liza Booker, Beth Cerny, Richard Coffey, Chel Lancaster, Lalitha Mantrala, Jini Ramprakash, Robert Scott

- **Curriculum track leaders**
  - Pete Beckman, Lori Diachin, Anshu Dubey, Joe Insley, Kalyan Kumaran, Rob Latham, Rusty Lusk, Lois McInnes, Mike Papka, Scott Parker, Katherine Riley, Rob Ross, Rajeev Thakur

- **OLCF**
  - Ashley Barker, Lisa Jordan Rael, Fernanda Foertter, Jim Hack

- **NERSC**
  - Richard Gerber, Clayton Bagwell
And thanks to you!

- Thanks for taking two weeks of your summer to participate in this program, I hope you found it worthwhile
- Questions?