Some near-final words and logistics

Argonne Training Program on Extreme-Scale Computing
(ATPESC)

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A few reminders

- For those of you who are not requesting an extension of your user account, we will collect your CRYPTOcards at the 10 a.m. break Friday.

- The Track 7 evaluation and the Final Event evaluation will be emailed to you tonight and are due tomorrow by the 10 a.m. break.
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 12 p.m. on Friday.
- 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.
## Allocation Programs at the LCFs

<table>
<thead>
<tr>
<th></th>
<th>INCITE</th>
<th>ALCC</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>Strategic LCF goals</td>
</tr>
<tr>
<td><strong>Call</strong></td>
<td>1x/year – (Closes June)</td>
<td>1x/year – (Closes February)</td>
<td>Rolling</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>
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<tr>
<td><strong>Typical Size</strong></td>
<td>30 - 40 projects 50M - 500M core-hours/yr.</td>
<td>5 - 10 projects 10M – 300+M core-hours/yr.</td>
<td>100s of projects 0.5M – 10M core-hours</td>
</tr>
<tr>
<td><strong>Review Process</strong></td>
<td>Scientific Peer-Review</td>
<td>Computational Readiness</td>
<td>Scientific Peer-Review</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>
</tr>
<tr>
<td><strong>Readiness</strong></td>
<td>High</td>
<td>Medium to High</td>
<td>Low to High</td>
</tr>
<tr>
<td><strong>Availability</strong></td>
<td>Open to all scientific researchers and organizations</td>
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</tr>
</tbody>
</table>

*Capability > 131,072 cores (16.7% of Mira)*
Want to keep your ALCF account?

ALCF strongly encourages interested ATPESC participants to continue to use Mira and Vesta for their research efforts. The ATPESC project will be extended for a limited time after the program, until October 31, 2014.

Here’s how you can keep your Cryptocard:

- Send an email to accounts@alcf.anl.gov with the subject:
  - ATPESC 2014 - Please extend account for <username>
- extending 593s for foreign nationals is not an issue as long as your INS documentation is valid until November 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 31!
  - http://www.alcf.anl.gov/getting-started/apply-for-dd
Extending 593s for foreign nationals

- Please re-check your account information here: [https://accounts.alcf.anl.gov/accounts/account.php](https://accounts.alcf.anl.gov/accounts/account.php)
  - Specifically: 'Citizenship Information’ section

- Note that accounts.alcf.anl.gov does NOT use CRYPTOcard - you set this password when you created an account
  - Call 866-508-9181 to reset the password if you have forgotten it

- Margaret Kaczmarski may contact you for additional paperwork
Getting time on Titan

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

- You can request time on Titan through our Director’s Discretionary Program
- Typically the program awards 1-3M Titan core hours
- Aimed at pilot projects, GPU porting, INCITE/ALCC prep and more
- Under User Support Tab, choose Documents and Forms
- Fill out webform
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/
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
For information on the educational and postdoctoral programs at Argonne National Laboratory

- http://www.dep.anl.gov
2014
‘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 of the page.

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

2013 ATPESC Video Presentations Now Online
With the 2014 Argonne Training Program on Extreme Scale Computing now underway, we are pleased to provide access to videos from last year’s program.
Check out the videos »

Getting from H2O to hydrogen fuel
Researchers from the University of Chicago are using Mira to study photoelectrochemical energy conversion.
Read more »

Analysis & Opinion
The ALCF’s Paul Messina writes on the importance of HPC training for Scientific Computing World.
A few thanks

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

- **Operations**
  - Adam Scovel, Andrew Cherry, Bill Allcock, Robert Scott, Paul Rich, Matt Kemp, Skip Reddy

- **ALCF User Services**
  - Jini Ramprakash, Robert Scott, Chel Lancaster, Richard Coffey

- **OLCF**
  - Ashley Barker, Fernanda Foertter, Jim Hack

- **NERSC**
  - Richard Gerber

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

- Thanks in advance to all of you for taking two weeks of your summer to participate in this program
- Questions?