OLCF: Welcome New Users

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Oak Ridge Leadership Computing Facility
What is the Oak Ridge Leadership Computing Facility?

- Collaborative, multi-lab, DOE/SC initiative ranked top domestic priority in *Facilities for the Future of Science: A Twenty-Year Outlook*.
- Mission: Provide the computational and data science resources required to solve the most important scientific & engineering problems in the world.

- Highly competitive user allocation programs (INCITE, ALCC).
- Projects receive 100x more hours than at other generally available centers.
- LCF centers partner with users to enable science & engineering breakthroughs (Liaisons, Catalysts).

Titan
Cray XK7
Currently #2 HPC Top 500
27 petaflops
299,008 Processor Cores
18,688 GPUs
OLCF Resources

Titan
- Cray XK7
- Currently #2 on HPC Top 500
- 27 PF
- 299,000 cores
- 18,688 GPUs

Eos
- Cray XC30
- 736 nodes
- 11,766 cores
- Prepare datasets for processing on Titan, analyzing results, and general processing

Rhea
- Linux cluster
- 512 nodes
- Used for pre and post processing

A Storage Area for Every Activity
- Home (NFS)
- Spider (Lustre scratch file system)
- HPSS (archival storage)
Coming Next: Summit

- 5x Titan’s performance
- Available to users in 2018

- Summit talk on Thursday of OLCF User Meeting
More Facts about the Oak Ridge Leadership Computing Facility

• Average 250 projects per year
• Average 1,200 OLCF users per year
• OLCF users are spread out all over the globe and come from academia, national laboratories, other govt agencies, and industry and cover multiple science domains
How to Request Help

- Email help@olcf.ornl.gov or contact your liaison
- Call (865) 241-6536
- Check out the OLCF support site: http://olcf.ornl.gov/support/
  - Getting started
  - User guides
  - Tutorials
  - Software inventory
  - Knowledge base
  - Known issues
  - Official policies
  - Past & future events
Monthly OLCF User Conference Call

- Live interactive discussions with OLCF HPC staff about your questions
- Timely tutorials about OLCF software, resource, and hardware
- Center news about outages, policy changes, and training events
Vote for your User Group Board

Nine users have been nominated to run for the three open positions on the OLCF User Group Executive Board.

Please take a few minutes to vote for three candidates by following this link:

https://www.surveymonkey.com/r/6XCT63B

The vote will remain open until June 25th at 11:00 am EDT. The successful candidates will be announced on June 25th at 12:00 pm EDT.
Acknowledgements

• Please acknowledge the use of OLCF systems in publications based on work performed using OLCF systems.

• The acknowledgement is included below but can also be found on the OLCF website under Media Center/Media Kit or if you search “acknowledgement” in the search box on the OLCF website it will take you to the statement.

This research used resources of the Oak Ridge Leadership Computing Facility, which is a DOE Office of Science User Facility supported under Contract DE-AC05-00OR22725.
The OLCF conducts an annual survey of all users of the facility.

Each user should respond to the survey.

Survey is conducted by a 3rd party and you can choose to keep your responses confidential.

Contains a mixture of questions soliciting ratings, information, and free form comments.

Previous surveys are posted online.

<table>
<thead>
<tr>
<th>Survey Demographics</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage of Responses</td>
<td>30%</td>
<td>32%</td>
</tr>
<tr>
<td>New Users (OLCF User &lt; 1 Year)</td>
<td>43%</td>
<td>26%</td>
</tr>
<tr>
<td>OLCF User for 1–2 Years</td>
<td>26%</td>
<td>27%</td>
</tr>
<tr>
<td>OLCF User &gt; 2 Years</td>
<td>31%</td>
<td>48%</td>
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</tbody>
</table>

Users score OLCF on a 1-5 scale.
1 = Very Dissatisfied
2 = Dissatisfied,
3 = Neither Satisfied nor Dissatisfied
4 = Satisfied
5 = Very Satisfied

Metric – 3.5
Reporting & Communicating Achievements

Outreach team works to highlight user and center achievements through several mediums including:

- Science highlights
- DOE snapshots
- Press releases
- Quad charts
- Close out reports
- Fact sheets
- Posters
- Event coordination