**OLCF Director’s Discretionary Project Quarterly Report**

**Project Milestones**

* Please list and provide the status of all of your milestones/goals from your proposal. Please highlight any project milestones/goals that have changed.
* If not covered above, list major accomplishments thus far for your DD Project. Please include scientific and computational details of simulations undertaken, including images if possible.
* If applicable, describe how access to leadership computing resources, data capabilities, your liaison, and/or other staff at the Leadership Computing Facility (LCF) enabled these results.

**Project Productivity**

Please remember that all publications, which involve the use of OLCF resources, should contain the following acknowledgement:

*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.*

* List and provide links (if possible) to **publications** that resulted from the use of your **DD** project.
* List **invited** talks or presentations.
* List any journal covers, awards, honors, and/or popularizations.
* List any formal software releases generated as a result of this project.
* Technical Accomplishments – List technical accomplishments such as development of reusable code resulting in a new tool, new algorithm design ideas or programming methodologies, formal software releases, etc.
* List any patents (filed or received).
* List any invention disclosures.
* Other

**Center Feedback**

* Have the LCF systems met the needs of your project (e.g., queuing policies, etc.)?
* If utilized, has the support received from the User Assistance staff been beneficial to your project team?
* Are you aware of the monthly user telecons? If so, do you participate and find them useful? How could we improve the telecons?
* Is the website ([www.olcf.ornl.gov](http://www.olcf.ornl.gov)) meeting your needs? What areas can be improved to better assist you?
* Are there any particular training classes that you and your project team would like to see the OLCF offer in the future?
* Any suggestions for improvement/areas where we can assist you that have not been discussed?

**Outreach**

The center creates (concise, short, highly visible) bi-weekly center highlights to submit to DOE. Please let us know if your project is ready, willing, and able to contribute a highlight?

**Code Description and Characterization**

* Name and provide a description of the primary codes used by your project.
* What languages and libraries (scientific, I/O, etc.) are used in each code?
* If possible and useful, please indicate which of the following algorithmic motifs appear in each of your major production codes.

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| **Code Name** | **Dense Linear Algebra** | **Sparse**  **Linear**  **Algebra** | **Monte Carlo** | **FFTs** | **Particles** | **Structured Grids** | **Unstructured Grids** | **AMR** |
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