

Submission Details: bof171s2

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Title

Title: Tracking and Analyzing Job-level Activity using Open XDMoD, XALT and OGRT

Session Leader Information

Session Leader 1:

Name: Dr. Robert T. McLay

Email: mclay@tacc.utexas.edu

Company/Institution: University of Texas

Company/Institution 2: Texas Advanced Computing Center, University of Texas

Country: United States of America

Biography:

Dr. McLay received his Ph.D. from the University of Texas at Austin in Engineering Mechanics. He joined TACC in 2008 and now leads the Software Tools Group. He has had a long interest in Software tools. He is the developer of Lmod, an environment module tool. He is also interested in Parallel 3D finite elements for incompressible fluid flow and heat transfer.

Photograph:

Is this person on the Birds of a Feather reviewing committee? No

Additional Session Leader Information

Additional Session Leader 1:

Name: Mr. Georg Rath

Email: rath.georg@gmail.com

Company/Institution: rath.io

Company/Institution 2:

Country: Austria

Biography:

Georg slipped into data intensive computing while studying software engineering. He held a part time position at a scientific research institute doing image processing in Vienna and got insight into the unique challenges this environment brings with it. After finishing his bachelor he had to come up with a way to handle the large influx of data and subsequent processing of that data in that institute. From there he went on to drag the legacy infrastructure of a life sciences institute into the 21st century and while doing so got interested in ways of improving user experience when working with centralized computing services.

Photograph:

Is this person on the Birds of a Feather reviewing committee? No

Additional Session Leader 2:

Name: Dr. Thomas R. Furlani

Email: furlani@buffalo.edu

Company/Institution: Center for Computational Research, State University of New York at Buffalo

Company/Institution 2:

Country: United States of America

Biography:

Dr. Thomas R. Furlani serves as director of the University at Buffalo's Center for Computational Research (CCR), a leading academic supercomputing center. CCR maintains a high-performance computing environment, high-end visualization laboratories, and support staff with expertise in high-performance computing, (big) data analytics, and visualization. A National Science Foundation Pre-doctoral Fellow, Furlani has more than 25 years experience in scientific computing, including computational chemistry and parallel processing. He serves as principal

investigator on several externally funded projects, including the XSEDE Technology Audit Service award (XDMoD tool). In addition, Furlani serves on the NYSERNet Board of Directors and is a founding member of the Visualization in Transportation Committee of the National Transportation Research Board.

Photograph:

Is this person on the Birds of a Feather reviewing committee? No

Additional Session Leader 3:

Name: Dr. Robert L. DeLeon

Email: rdeleon@buffalo.edu

Company/Institution: Center for Computational Research, State University of New York at Buffalo

Company/Institution 2:

Country: United States of America

Biography:

Dr. DeLeon is a senior research scientist at the Center for Computational Research at the State University at New York at Buffalo. He is the project manager on the the XD Metrics Services program (originally the Technology Audit Service program) funded by NSF. Dr. DeLeon has been active in monitoring and analyzing the performance of HPC clusters.

Photograph:

Is this person on the Birds of a Feather reviewing committee? No

Abstract

Abstract (Maximum 100 words):

This BoF is for those interested in the increasingly important need to track and analyze activity on large-scale systems: usage, performance, and impact, down to the level of each individual job. Open XDMoD primarily displays aggregated data: it provides your own web portal to view, summarize, and analyze this data. We will discuss recent developments and improvements in XDMoD. XALT and OGRT are about collections: these tools are battle-tested tools focused on job-level usage data. They track executables and libraries with the lowest possible overhead. Join us for demos, discussions, and a wide-ranging exchange of information!