

Energy Efficient High Performance Computing Working Group
October 12, 2010 Meeting Report

INTRODUCTION

The EE HPC WG held a meeting on October 12, 2010. This WorkingGroup is composed of members representing major Federal departments and independent agencies, private sector representatives, and members of the academic community. More information can be found at the working group's website, <http://eehpcwg.lbl.gov>. Documents from the group can be found at <https://docs.google.com/leaf?id=0BzyTVVVRdMKpNwVjNTI5YTEtMTIIZi00YTA5LTlkMTYtZmY3ZDIyZjJjZmMy&hl=en>.

NEXT MEETING: December 14 2010, 9:00 to 10:00 Pacific Time

Agenda

- **Best Practices Meeting**
- **SC10 Presentations**
- **SC10 Agenda**

EE HPC WG MEETING REPORT

Best Practices Meeting

Several members of the EE HPC WG participated in a best practices meeting, convened by DOE. The discussion focused on power-aware computing and sharing best practices. The meeting consisted of eight breakout sessions on power management and each session will publish a report summarizing discussions and outcomes. These reports will be shared with the group in either the December or February meeting.

SC10 Technical Sessions

Natalie Bates reviewed a list of all of the energy-efficiency related sessions to take place at SC10. There are numerous technical events that can be categorized into three topical areas; energy efficiency of system architecture, energy efficiency of data centers and renewable energy sources. Dale suggested that interested people who attend these sessions could report back to the WG on the content, or consider asking the presenter to join the EE HPC WG Speakers Bureau. If you would like to add additional sessions to this list, please notify Natalie. The list will be sent out again prior to SC10.

Before SC10, we should consider creating a business card sized flier that will contain information on the group, especially the website. As an outreach action item, Natalie will

also submit an article to one or more of the trade publications on the energy efficiency related technical sessions at SC10.

SC10 Presentations
Natalie Bates

Running a Lean & Productive HPC Center

This workshop will be run by Bill Tschudi and Mike Patterson on Sunday, November 14th from 9:00 to 12:30. They will provide insight into why energy efficiency is important in high performance computing. If you have material that would be complementary to the material currently include, or if you have general feedback, please contact Bill Tschudi or Natalie Bates.

EE HPC WG Birds of a Feather:

Natalie Bates shared her presentation for the BOF session at SC10 with the group. She would like input from the subgroups on what to present as their priorities. Bill Tschudi suggested mentioning the DC power demonstration.

Natalie would like to use this BoF as a forum to discuss the possibility of beginning a subgroup to address power management software and discuss what the responsibilities of this group would be. It could create an architectural vision of the role of power management in the three layers of software. This group could potentially share code and work together on software development.

PARTICIPANTS

Name	Organization
Bill Reidy	DOD
Bill Tschudi	LBNL
Natalie Bates	EE HPC WG
Ralph Wescott	PNNL
Dale Sartor	LBNL
Jim Crow	NERSC
Allison Young	Energetics
Tahir Cader	HP
Caleb Rockenbaugh	NREL