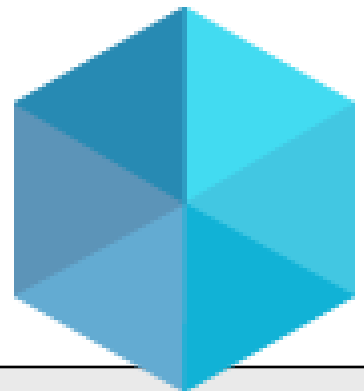




Academia Discussion Group Session: Introduction

D. Pleiter (Jülich Supercomputing Centre)



What is the Academia Discussion Group?

- Open platform for academic members of the OPF
 - Open also for commercial members
- Currently about 50 academic members including

A*STAR	ASU	ASTRI	Moscow State University	Carnegie Mellon Univ.
CDAC	Colorado School of Mines	CINECA	CFMS	Coimbatore Institute of Technology
Dalian University of Technology	GSIC	Hartree Centre	ICM	IIT Bangalore
IIT Bombay	IIT Roorkee	ICCS	INAF	FZ Jülich
LSU	RZG	Nanyang Technological University	National University of Singapore	NIT Mangalore
NIT Warangal	Northeastern University in China	ORNL	OSU	RICE
Rome HPC Center	LLNL	SANDIA	SASTRA University	Seoul National University
Shanghai Shao Tong University	SICSR	TEES	Tohoku University	Tsinghua University
University of Arkansas	SDSC	Unicamp	University of Central Florida	University of Florida
University of Hawaii	University of Hyderabad	University of Illinois	University of Michigan	University of Oregon
University of Patras	University of Southern California	TACC	Waseda University	BSC

Goals of the Academia Discussion Group

- Provide training and exchange of experience and know-how
- Provide platform for networking among academic members
- Work on engagement of computational science community
- Enable co-design activities

Academia Discussion Group's Activities

- Webinars

- 1 hour event, every 1-2 months
- Presentation + Q&A session
- Speakers from academic and commercial members
- Focus on training and introduction into new technologies
- Slides and recordings available on the OPF website

- Workshops and tutorials

- ADG internal workshops
- Open workshops, e.g. OpenPOWER India 2015, IWOPH'16
- Tutorials, e.g. at SC'16

← Registration still possible



Support for Academia

- Share best practices
 - Improve exchange of experience among developers
- Contribute to developer platform
 - Build-up knowledge base on how to use OpenPOWER based solutions
- Promote availability of performance tools
 - Bridge large differences between different processor eco-systems

POWER Acceleration and Design Center

- **Collaboration** between IBM, JSC and NVIDIA in German-speaking area
 - Similar activities in France and UK
- **Goal:** Provide support to scientists and engineers to target the grand challenges facing society
- **Current work focus**
 - Application readiness
 - Exploration of NVLink use
 - Programming models
 - Multi-GPU parallelization
 - Dissemination and training

Session Program

Ganesan Narayanasamy (IBM)	IBM University programs for the OpenPOWER Ecosystem
Andrea Bulgarelli (INAF)	Applications from physical sciences
Dirk Pleiter (JSC)	GPU-accelerated POWER for supercomputing
Sadaf Alam (CSCS)	Future opportunities and challenges using OpenPOWER