

PEAD BOFs

Introduction

Cray User Group

May 07, 2023



What is the PEAD ?

- Performance Environments, Applications, and Documentation
 - CUG Special Interest Group
- Focus
 - system usability
 - PE (including compilers, libraries and tools)
 - scientific applications on Cray/HPE systems
 - user support
 - communication
 - documentation
- Slack channel: #cug_pead
 - Topic discussions for annual CUG meetings
 - Ideas for additional interaction opportunities
 - <https://crayusers.slack.com/archives/C055XH2V256>

• Committee Members

Chair

Chris Fuson

ORNL

Deputy Chair

Eva Siegmann

Stony Brook

Deputy Chair

Ben Cumming

CSCS

Deputy Chair

Stephen Leak

NERSC

HPE Liaison

Barbara Chapman

HPE

PEAD Slack Channel: #cug_pead

- Subscribe to the list
 - **#cug_pead**
 - <https://crayusers.slack.com>
 - Invite your colleagues to join the list !
- Goal:
 - Foster discussions,
 - sharing of knowledge, issues



Today's Agenda

Start	End	Topic	Presenters
1:30	1:35	Introduction	Chris Fuson
1:35	2:00	Documentation	Barbara Chapman (HPE)
2:00	2:45	User Training	Barbara Chapman (HPE), Eva Siegmann (Stony Brook), Chris Fuson (ORNL), Marco De La Pierre (Pawsey)
2:45	3:00	Break	
3:00	3:45	User Module Environment	Kaylie Anderson (HPE), John Holmen (ORNL), Pascal Elahi (Pawsey)
3:45	4:30	PE Updates and Testing	Jeff Hudson (HPE), Abhinav Thota (IU), Guilherme Peretti-Pezzi (CSCS), Eirini Koutsaniti (CSCS), Juan Herrera (EPCC)
4:30	5:00	Future Directions for Fortran	Bill Long (HPE) Barbara Chapman (HPE)

HPE Documentation

- The goal of the BOF is to provide an opportunity for CUG member sites and HPE to discuss existing and future documentation needs.

Introduction / Transition	Chris Fuson
HPE Presentation	Barbara Chapman (HPE)
Open Floor Discussion	

User Training

- In this BOF, representatives from multiple centers will discuss their center's training efforts. HPE will present available training offerings as well as discuss future training needs with those in attendance.

Introduction / Transition	Chris Fuson	2 mins
HPE Presentation	Barbara Chapman (HPE)	10 mins
Center Presentations	Eva Siegmann (Stony Brook), Marco De La Pierre (Pawsey), Chris Fuson (ORNL)	10 mins
Open Floor Discussion		20 mins

User Module Environment

- During this BOF, HPE will discuss the CPE module environment including new and upcoming LMOD features. Center representatives will also discuss use cases and methods used to augment the provided environment.

Introduction / Transition	Chris Fuson	2 mins
HPE Presentation	Kaylie Anderson (HPE)	10 mins
Center Presentations	John Holmen (ORNL), Pascal Elahi (Pawsey)	10 mins
Open Floor Discussion		20 mins

PE Updates and Testing

- During the BOF HPE representatives will discuss the environment, process, and tools used to test the CPE. Center representatives will discuss testing including the use of the ReFrame framework for regression testing.

Introduction / Transition	Chris Fuson	2 mins
HPE Presentation	Jeff Hudson (HPE)	10 mins
Center Presentations	Abhinav Thota (IU), Guilherme Peretti-Pezzi (CSCS), Eirini Koutsaniti (CSCS), Juan Herrera (EPCC),	10 mins
Open Floor Discussion		20 mins

Future Directions for Fortran

- The goal of this BOF is to provide an open forum for CUG members to share their thoughts on the future of Fortran in HPC and to discuss surrounding questions.

Introduction / Transition	Chris Fuson
HPE Presentation	Barbara Chapman (HPE), Bill Long (HPE)
Open Floor Discussion	