HEP/HPC Strategy Meeting - USA

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Welcome and Introduction

Monday 22 January 2024 09:30 (20 minutes)

Goals of the meeting

Discuss the current status and challenges of HPC integration in USA (combining conclusions with other regions).

Compile a list of the impediments to integration in two columns: things that can be solved or improved and things that just need to be accommodated or worked around.

Develop a list of topics we believe would benefit from dedicated working groups. - Develop solutions or plans for solutions in areas when possible

Write a document to capture the discussions and main conclusions, with the aim of writing a white paper

Format

No talks! Single slides to structure/guide the discussion allowed/encouraged.

Discussion in small group

Contribution ID: **2** Type: **not specified**

Recap of Day

Monday 22 January 2024 17:30 (30 minutes)

Contribution ID: **3**
Type: **not specified**

Recap / Writing Assignments

Tuesday 23 January 2024 14:05 (1 hour)

Contribution ID: 4　　　　　　　　　　　　　　　　　Type: **not specified**

Adjourn / Opportunity for writing

Tuesday 23 January 2024 15:05 (1h 30m)

Contribution ID: **5**   Type: **not specified**

Strategy Topics

Monday 22 January 2024 09:50 (30 minutes)

- Shifting landscape of technologies (Many core, integrated CPU/GPU, high powered everything).

Session Classification: High Level Topic

Contribution ID: **6**
Type: **not specified**

Provisioning

Monday 22 January 2024 14:00 (30 minutes)

- Long term Allocations
- Scheduling
  - Pledging HPC resources,

Session Classification: High Level Topic

Contribution ID: **7**　　　　　　　　　　　　　　　　　　　Type: **not specified**

Interfaces

Monday 22 January 2024 16:00 (30 minutes)

- What do we need to build a common set of interface services for HPC sites
  - Example: DOE ASCR Integrated Research Initiative (IRI)

Session Classification: High Level Topic

Contribution ID: **8**   Type: **not specified**

Software Strategy

Tuesday 23 January 2024 09:30 (30 minutes)

- Common strategies for application support on HPC
- Unified programming models

Session Classification: High Level Topic

Contribution ID: **9**   Type: **not specified**

Storage

Tuesday 23 January 2024 11:20 (30 minutes)

- Moving data in and out of HPC
- New models for storing and serving data

Session Classification: High Level Topic

Contribution ID: **10**   Type: **not specified**

Technical Strategies

Monday 22 January 2024 11:00 (30 minutes)

- How does AI/ML workflow influence choices?
- Convergence of AI and HPC
- What should we be aiming at for technology adoption?

Session Classification: High Level Topic