

Weekly CCE-SOP tele-conference

Report of Contributions

Contribution ID: 0

Type: **not specified**

Introduction/Management News

Wednesday, 29 May 2024 11:00 (5 minutes)

All Hands Meeting:

We expect the meeting to last 2.5 days, during which we will (among other things):

1) Review the impact of our Phase I and Phase II activities on our stakeholders (experiments and HPC centers)

2) Highlight early results and open issues from each Phase II area: PAW, SOP, SIM, and SML.

3) Discuss priorities and update milestones for Year 2 of the project, taking into account the input from our program manager and the report from the project review (which we should receive in the coming weeks).

3a) Specifically, in Year 2, we have been encouraged to increase the scope of AI/ML activities in CCE to ~25% of the total effort

We look forward to seeing you all in person at LBL or virtually.

Summary

Presenters: CALAFIURA, Paolo (LBNL); VAN GEMMEREN, Peter (ANL); SEHRISH, Saba (Fermi-lab); HABIB, Salman (Argonne National Laboratory)

Contribution ID: 9

Type: **not specified**

Tracking and aiding the evolution of ROOT I/O, in particular RNTuple

Wednesday, 29 May 2024 11:20 (10 minutes)

Suggest 06/12 for next RNTuple API review meeting:

RNTupleDescriptor
RColumn/ColumnElement, RPage
RPageStorage/Cluster and RPageSource

Would complete module list (unless I missed something).

Followed by:

- Mid review meeting, finalizing early requests to ROOT.
- Review of Error handling, exceptions, documentation.
- Considerations of performance and tuning.
- ...
- Final review meetings, produce document for ROOT.

Summary

Presenters: METE, Alaettin Serhan (Argonne National Laboratory (US)); BASHYAL, Amit (Argonne National Lab); CHOWDHURY, Barnali (Argonne National Laboratory); JONES, Christopher (Fermilab); RILEY, Daniel (Cornell University); KNOEPFEL, Kyle (Fermilab); NOWAK, Marcin (BNL); KORTELAINEN, Matti (Fermilab); VAN GEMMEREN, Peter (ANL); CANAL, Philippe (FERMILAB)

Contribution ID: **10**

Type: **not specified**

Reduced Precision and Intelligent Domain-specific Compression Algorithms

Wednesday, 29 May 2024 11:30 (10 minutes)

Summary

Presenters: BASHYAL, Amit (Argonne National Lab); BHATTACHARYA, Meghna; VAN GEMMEREN, Peter (ANL)

Contribution ID: 11

Type: **not specified**

Object Stores and Strategies for Data Placement and Replication

Wednesday, 29 May 2024 11:40 (10 minutes)

Summary

Presenters: JAYATILAKA, Bo (Fermilab); BENJAMIN, Doug (Brookhaven National Laboratory (US)); SMITH, Nicholas (Fermilab); LATHAM, Rob (Argonne National Laboratory); ROSS, Rob (ANL); SEHRISH, Saba (Fermilab); SNYDER, Shane (Argonne National Laboratory)

Contribution ID: 12

Type: **not specified**

Optimized Data Delivery to HPC systems

Wednesday, 29 May 2024 11:50 (10 minutes)

Summary

Presenters: MAMBELLI, Marco (Fermilab); VAN GEMMEREN, Peter (ANL); SEHRISH, Saba (Fermilab)