

# **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); KORTTELAINEN, 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)