

US ATLAS Physics Support, Software and Computing Technical Planning Meeting 2016

Report of Contributions

Contribution ID: **13**

Type: **not specified**

Toward a next-generation I/O framework

integrated into ATLAS future framework, removing the last vestiges of POOL/APR, supporting multithreading and distributed processing, suitable for HPC deployment

Presenters: VANIACHINE, Alexandre (ANL); MALON, David (Argonne National Laboratory (US)); CRANSHAW, Jack (Argonne National Laboratory (US)); NOWAK, Marcin (Brookhaven National Laboratory (US)); VAN GEMMEREN, Peter (Argonne National Laboratory (US))

Contribution ID: 14

Type: **not specified**

The future of metadata and bookkeeping infrastructure

why it matters, what the issues are, near-term and longer-term work

Presenters: VANIACHINE, Alexandre (ANL); MALON, David (Argonne National Laboratory (US)); CRANSHAW, Jack (Argonne National Laboratory (US)); NOWAK, Marcin (Brookhaven National Laboratory (US)); VAN GEMMEREN, Peter (Argonne National Laboratory (US))

Contribution ID: 15

Type: **not specified**

Multiprocessing in Run 2 and beyond

Presenter: TSULAIA, Vakho (Lawrence Berkeley National Lab. (US))

Contribution ID: **16**

Type: **not specified**

Future Framework

Presenter: LEGGETT, Charles (Lawrence Berkeley National Lab. (US))

Contribution ID: 17

Type: **not specified**

Machine Learning and Run 4 Computing

Presenter: CALAFIURA, Paolo (Lawrence Berkeley National Lab. (US))

Contribution ID: **19**

Type: **not specified**

Welcome

Monday 1 August 2016 09:00 (20 minutes)

Presenters: CALAFIURA, Paolo (Lawrence Berkeley National Lab. (US)); GARDNER JR, Robert William (University of Chicago (US))

Contribution ID: **20**

Type: **not specified**

WFM SW projects highlights

Monday 1 August 2016 10:10 (15 minutes)

Presenter: BARREIRO MEGINO, Fernando Harald (University of Texas at Arlington)

Session Classification: Distributed software

Contribution ID: **21**

Type: **not specified**

Pilot 2.0 goal and timeline

Monday 1 August 2016 10:25 (15 minutes)

Presenter: NILSSON, Paul (Brookhaven National Laboratory (US))

Session Classification: Distributed software

Contribution ID: 22

Type: **not specified**

Harvester. Goals, timeline

Monday 1 August 2016 10:40 (20 minutes)

Presenter: MAENO, Tadashi (Brookhaven National Laboratory (US))

Session Classification: Distributed software

Contribution ID: 24

Type: **not specified**

From "Next Generation Workload Management and Analysis System for Big Data" to "Big PanDA Workflow Management on Titan for High Energy and Nuclear Physics and for Future Extreme Scale Scientific Applications". DOE ASCR Exascale Computing Project

Monday 1 August 2016 09:20 (15 minutes)

Summary

Presenter: KLIMENTOV, Alexei (Brookhaven National Laboratory (US))

Session Classification: Distributed software

Contribution ID: 25

Type: **not specified**

VC3

Monday 1 August 2016 09:35 (10 minutes)

Virtual Clusters for Community Computation. A DOE ASCR funded project to develop automation platforms for virtual cluster provisioning.

Summary

Presenter: GARDNER JR, Robert William (University of Chicago (US))

Session Classification: Distributed software

Contribution ID: 26

Type: **not specified**

HEP cloud

Monday 1 August 2016 09:45 (10 minutes)

Presenter: LANCON, Eric Christian (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

Session Classification: Distributed software

Contribution ID: 27

Type: **not specified**

Discussion

Monday 1 August 2016 09:55 (15 minutes)

Session Classification: Distributed software

Contribution ID: **28**

Type: **not specified**

Event Service today: progress, problems and challenges

Monday 1 August 2016 16:00 (20 minutes)

Presenters: TSULAIA, Vakho (Lawrence Berkeley National Lab. (US)); GUAN, Wen (University of Wisconsin (US))

Session Classification: US ATLAS Facility

Contribution ID: **29**

Type: **not specified**

Discussion

Monday 1 August 2016 16:20 (10 minutes)

Session Classification: US ATLAS Facility

Contribution ID: **30**

Type: **not specified**

Event Service performance optimization on HPC

Monday 1 August 2016 16:30 (20 minutes)

Presenters: BENJAMIN, Doug (Duke University (US)); CHILDERS, Taylor (Argonne National Laboratory (US))

Session Classification: US ATLAS Facility

Contribution ID: **31**

Type: **not specified**

Discussion

Monday 1 August 2016 16:50 (10 minutes)

Session Classification: US ATLAS Facility

Contribution ID: 32

Type: **not specified**

Transition to Continuous Integration Practices in ATLAS Software Development

Monday 1 August 2016 17:00 (20 minutes)

Presenter: UNDRUS, Alexander (Brookhaven National Laboratory (US))

Session Classification: Physics Support

Contribution ID: 33

Type: **not specified**

Network Analytics and the Cost Matrix

Monday 1 August 2016 13:20 (15 minutes)

Presenters: VUKOTIC, Ilija (University of Chicago (US)); MC KEE, Shawn (University of Michigan (US))

Session Classification: US ATLAS Facility

Contribution ID: **34**

Type: **not specified**

Role of CEPH in the Facility and Distributed Storage

Monday 1 August 2016 13:35 (15 minutes)

Summary

Presenter: MC KEE, Shawn (University of Michigan (US))

Session Classification: US ATLAS Facility

Contribution ID: 35

Type: **not specified**

Automating Deployment

Monday 1 August 2016 13:50 (15 minutes)

Presenter: BRYANT, Lincoln (University of Chicago (US))

Session Classification: US ATLAS Facility

Contribution ID: **36**

Type: **not specified**

Caching Network Status and Plans

Monday 1 August 2016 14:05 (15 minutes)

Summary

Presenter: YANG, Wei (SLAC National Accelerator Laboratory (US))

Session Classification: US ATLAS Facility

Contribution ID: 37

Type: **not specified**

DOE HPC Integration Summary

Monday 1 August 2016 14:30 (45 minutes)

What are three sites doing, what in common?

Cost/benefit analysis.

Working group to write up US ATLAS request to Lali

Summary

Presenter: CHILDERS, Taylor (Argonne National Laboratory (US))

Session Classification: US ATLAS Facility

Contribution ID: **38**

Type: **not specified**

NSF Resources: XSEDE, Blue Waters, Campuses

Monday 1 August 2016 15:15 (15 minutes)

Current activities and future prospects

Summary

Presenters: NEUBAUER, Mark (Univ. Illinois at Urbana-Champaign (US)); GARDNER JR, Robert William (University of Chicago (US))

Session Classification: US ATLAS Facility

Contribution ID: 39

Type: **not specified**

Short Introduction to GNNs

Wednesday 3 August 2016 10:30 (10 minutes)

Presenter: LOUPPE, Gilles (New York University (US))

Session Classification: HSF Community Whitepaper

Contribution ID: 40

Type: **not specified**

Thoughts on longer term strategy for G4 in ATLAS

Wednesday 3 August 2016 10:40 (15 minutes)

Summary

Presenter: DOTTI, Andrea (SLAC National Accelerator Laboratory (US))

Session Classification: HSF Community Whitepaper

Contribution ID: 41

Type: **not specified**

ATLAS's ISF as a Global Project

Wednesday 3 August 2016 11:00 (10 minutes)

Presenter: MARSHALL, Zachary Louis (Lawrence Berkeley National Lab. (US))

Session Classification: HSF Community Whitepaper

Contribution ID: 42

Type: **not specified**

GeantV and Fast Simulation

Wednesday 3 August 2016 11:15 (10 minutes)

Presenter: CANAL, Philippe (Fermi National Accelerator Lab. (US))

Session Classification: HSF Community Whitepaper

Contribution ID: 43

Type: **not specified**

Introduction

Tuesday 2 August 2016 08:30 (20 minutes)

Presenter: TSULAIA, Vakho (Lawrence Berkeley National Lab. (US))

Session Classification: Core Software

Contribution ID: 44

Type: **not specified**

Discussion

Tuesday 2 August 2016 08:50 (10 minutes)

Session Classification: Core Software

Contribution ID: 45

Type: **not specified**

Metadata handling challenges for the future

Tuesday 2 August 2016 09:00 (20 minutes)

Summary

Presenter: CRANSHAW, Jack (Argonne National Laboratory (US))

Session Classification: Core Software

Contribution ID: 46

Type: **not specified**

Discussion

Tuesday 2 August 2016 09:20 (10 minutes)

Session Classification: Core Software

Contribution ID: 47

Type: **not specified**

APF

Monday 1 August 2016 11:20 (5 minutes)

Summary

Presenter: HOVER, John (Brookhaven National Laboratory (BNL)-Unknown-Unknown)

Session Classification: Distributed software

Contribution ID: **48**

Type: **not specified**

Discussion

Monday 1 August 2016 11:30 (30 minutes)

Session Classification: Distributed software

Contribution ID: 49

Type: **not specified**

ARC slides as reference

Monday 1 August 2016 11:25 (5 minutes)

Presenter: OZTURK, Nurcan (University of Texas at Arlington (US))

Session Classification: Distributed software

Contribution ID: 55

Type: **not specified**

ML and Analytics in ATLAS

Wednesday 3 August 2016 11:30 (20 minutes)

Presenters: KLIMENTOV, Alexei (Brookhaven National Laboratory (US)); VUKOTIC, Ilija (University of Chicago (US))

Session Classification: HSF Community Whitepaper