

Session Program

15-19 May 2017

9th LHCb Computing Workshop

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CERN, 222/R-001

Monday 15 May

09:00

:- Infrastructure and operations

Session | **Location:** CERN, 222/R-001 | **Conveners:** Ben Couturier, Joel Closier

09:00-09:10 Introduction and Core Software news

Speakers

Ben Couturier, Joel Closier, Marco Clemencic

09:10-09:30 Status of AFS phase-out

Speakers

Ben Couturier, Joel Closier, Marco Clemencic

09:30-09:50 Compiler and platforms evolution

Speakers

Ben Couturier, Marco Clemencic

09:50-10:00 lbinstall: the new LHCb installer

Speakers

Ben Couturier, Stefan-Gabriel Chitic

10:00-10:20 Investigations on the migration to python3

Speaker

Stefan-Gabriel Chitic

10:20-10:50 Break

10:50-11:05 A new dashbord for the nightly builds and tests

Speaker

Stefan-Gabriel Chitic

11:05-11:20 Evolution of deployment system to CVMFS prod and dev

Speakers

Ben Couturier, Stefan-Gabriel Chitic

11:20-11:40 Migration of the LHCb documentation to EOS web

Speaker

Marco Clemencic

11:40-12:10 Improvements to LHCbPR2 and new integration tests

Speaker

Maciej Pawel Szymanski

12:10

14:00

:- HEP Community Initiatives

Session | **Location:** CERN, 222/R-001 | **Convener:** Michael David Sokoloff

14:00-14:30 Overview of the CWP Project and Summaray of the Kick-Off Workshop

Speaker

Vladimir Gligorov

14:30-14:45

Simulation Issues for the CWP**Speaker**

Gloria Corti

14:45-15:00

Machine Learning issues for the CWP**Speaker**

Paul Seyfert

15:00-15:50

1st Breakout Session**Speaker**

Michael David Sokoloff

15:50-16:10

Coffee Break

16:10-17:00

Discussions of Breakout Session Conclusions**Speaker**

Michael David Sokoloff

17:00

Tuesday 16 May

09:00

:- Data Processing & Simulation

Session | **Location:** CERN, 222/R-001 | **Convener:** Marco Cattaneo

09:00–09:30 Roadmap for Sim10

Speaker

Gloria Corti

09:30–09:50 Fast simulation

Speaker

Riccardo Cenci

09:50–10:10 Deployment and validation of Git conditions database

Speaker

Marco Clemencic

10:10–10:30 Coffee

10:30–10:50 Status of PersistReco

Speaker

Rosen Matev

10:50–11:20 Stripping status

Speaker

Michael Thomas Alexander

11:20–11:40 Status of Yandex streaming optimisation

Speaker

Radoslav Neychev

11:40–12:10 Discussion on streaming

Subcontributions

Streams from the HLT

Speaker

Sascha Stahl

Streams from Tesla

Speaker

Sascha Stahl

Streams from the Stripping

Speaker

Michael Thomas Alexander

LHCbDirac operational constraints**Speaker**

Christophe Haen

Discussion

12:30

14:00

-: Distributed computing**Session** | **Location:** CERN, 222/R-001 | **Convener:** Federico Stagni**14:00-14:10****Intro****Speaker**

Federico Stagni

14:10-14:30**Working Group productions: what's done so far****Speaker**

Vladimir Romanovskiy

14:30-15:00**Working Group productions: mini tutorial****Speaker**

Antonio Falabella

15:00-15:20**Working group productions: discussion + Q&A****15:20-15:40****Recent and upcoming developments in LHCbDIRAC****Speaker**

Federico Stagni

15:40-16:00**Coffee break****16:00-16:20****Recent and upcoming developments for Ganga and LHCb****Speaker**

Mark Smith

16:20-16:40**Distributed computing team: activities, and prospects****Speaker**

Philippe Charpentier

17:00

Wednesday 17 May

09:00

-: Analysis preservation I

Session | **Location:** CERN, 222/R-001 | **Convener:** Sebastian Neubert

09:00–09:30 Status of CERN analysis preservation project

Speaker

Tibor Simko

09:30–09:55 The RECAST project

Speaker

Lukas Alexander Heinrich

09:55–10:25 CERN cloud infrastructure

Speakers

Jan van Eldik, Ricardo Brito Da Rocha

10:25–10:50 Coffee break

10:50–11:20 LHCb analysis preservation roadmap

Speaker

Sebastian Neubert

11:20–11:50 Discussion session

11:50–12:00 Community Whitepaper

Speaker

Michael David Sokoloff

12:00

14:00

-: Analysis preservation II

Session | **Location:** CERN, 222/R-001 | **Convener:** Sebastian Neubert

14:00–14:30 Analysis pipeline toolkits

Speaker

Chris Burr

14:30–15:00 Data storage and access

Speakers

Jakub Moscicki, Luca Mascetti, Massimo Lamanna

15:00–15:20 Swan

Speaker

Danilo Piparo

15:20–15:40 Coffee break

15:40–16:00 Everware

Speaker

Andrey Ustyuzhanin

16:00-16:20

Undergraduate Laboratory Experiment: Measuring Matter Antimatter Asymmetries at the Large Hadron Collider

Speaker

Chris Parkes

16:20-17:30

Open space: Challenges in AP

17:30-18:00

POPPER a protocol for reproducible science (remote)

Speakers

Ivo Jimenez, Carlos Maltzahn

18:15

Thursday 18 May

09:00

:- Run 3 Upgrade: core software framework

Session | Location: CERN, 222/R-001 | Convener: Concezio Bozzi

09:00-09:40 Status of new framework and performance measurements

Speaker

Sebastien Ponce

09:40-10:00 Outcome of Intel workshop

Speaker

Paul Seyfert

10:00-10:20 Performance metrics in PR2

Speakers

Christoph Hasse, Maciej Pawel Szymanski, Stefan Roiser

10:20-10:40 Status of conditions database

Speaker

Benedikt Hegner

10:40-11:00 Detector description

Speaker

Ben Couturier

11:00

14:00

:- Run 3 upgrade and developments for 2017 data taking: Status of sub-systems

Session | Location: CERN, 222/R-001 | Convener: Concezio Bozzi

14:00-14:15 Tracking

Speakers

Agnieszka Dziurda, Christoph Hasse

14:15-14:30 RICH

Speaker

Christopher Rob Jones

14:30-14:45 CALO -- canceled

14:45-15:00 MUON

Speaker

Marco Santimaria

15:00

15:00

:- Run 3 Upgrade: core software: The way ahead

Session | Location: CERN, 222/R-001

15:00-15:25 Upgrade HLT

	<p>Speaker Olli Lupton</p>
	<p>15:25-15:50 Merging master and future, defining a common sequence</p> <p>Speaker Sebastien Ponce</p>
	<p>15:50-16:15 Coffee Break</p>
16:15	
16:15	<p>-: Reserved for tutorials Session Location: CERN, 222/R-001</p>
	<p>16:15-17:00 Measuring code performance with valgrind, perf and vtune</p> <p>Speaker Monir Hadji</p>
17:45	

Friday 19 May

09:00

-: Run 3 upgrade: distributed computing

Session | **Location:** CERN, 222/R-001 | **Convener:** Concezio Bozzi

09:00–09:20

HYDRA: a C++ framework for highly efficient computing on massively parallel architectures

Speaker

Dr Antonio Augusto Alves Junior

09:20–09:40

Migrating analysis software to the new framework

Speaker

Eduardo Rodrigues

09:40–10:00

Computing Resources in Run 3

Speaker

Concezio Bozzi

10:00–10:30

Distributed computing in Run 3 (following earlier discussion)

Speaker

Philippe Charpentier

10:30–11:00

Coffee Break

11:00–12:00

Preparing the TDR

12:15

14:00

-: Container & VM technologies

Session | **Location:** CERN, 222/R-001 | **Convener:** Andrew McNab

14:00–14:05

Introduction

Speaker

Andrew McNab

14:05–14:35

Experience with containers in LHCb services

Speaker

Christophe Haen

14:35–15:05

Singularity

Speaker

Ben Jones

15:05–15:35

SkyGrid at Yandex

Speaker

Alexander Baranov

15:35–16:05

Vac and Vcycle news

17:00

Speaker
Andrew McNab