1st Developers@CERN Forum

Software Quality, Reliability

and Testing



Introduction

Why such an event?

Create a community of developers

https://social.cern.ch/community/developers/

Share experiences

From developers to developers

Organizers

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Bruno S. IT-OIS

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Join us!

Open e-group <u>developers-forum-organizers</u>

Introduction

Format

Originally half-day conferences / half-day workshops

Five times more submissions than expected!

Few events per year on different topics

Webcast + recording

Popularity

Different topics

Introduction

Stay informed

Register to the mailing-list developers-forum-announce

Survey – This event is for you!

Agenda

QA and Testing in CERNBOX: the cornerstone of service development and operation Jakub Moscicki

Automated test case generation Stefan Klikovits

DB on Demand 2.0 (alpha) Ignacio Coterillo Coz

Coffee break

The quality and testing PH-SFT infrastructure for the external LHC software packages deployment Mato Vila, Patricia Mendez Lorenzo, Benedikt Hegner

The certification process of the LHCb distributed computing software Christophe Haen

Who's gonna test your tests? Mutants! Sebastian Witowski

Wrap-up

Agenda - Morning

Quality assurance for CORAL and COOL within the LCG software stack for the LHC experiments Andrea Valassi

Managing the CMS Online Software integrity through development and production cycles Luciano Orsini

Experience on QA in the CernVM File System Rene Meusel, Jose Molina Colmenero

Coffee break

Experience with C++ Code Quality in ATLAS Shaun Roe

Verification steps for the CMS event-builder software Remi Mommsen

Continuous Integration and Code Review: how IT can help Alexandre Lossent

Wrap-up

Agenda - Afternoon

Clean Code - Why you should care Benjamin Wolff

Automated Smoke Testing on the JVM with Geb Joao Silva

Achieving dependable software through Continuous Delivery and Quality Monitoring Kamil Henryk Krol

The benefits of SOLID in software development Ruben Agudo Santos

Coffee break

Writing robust C++ code for critical applications Miguel Ojeda Sandonis

Formal verification of industrial control systems

Daniel Darvas

FESA Quality Assurance Frederic William Hoguin

How we test the CERN Power Converter Control Libraries Quentin King, Krzysztof Tomasz Lebioda