

ALICE Electronic Logbook

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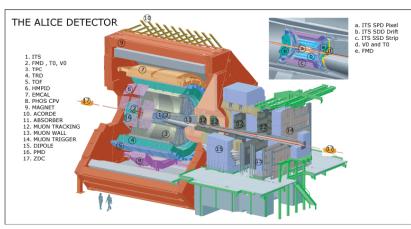






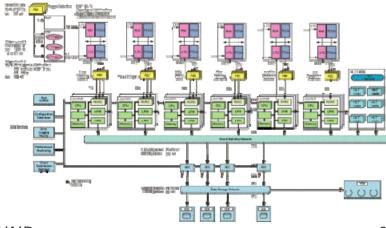
ALICE (A Large Ion Collider Experiment)

• What happens to matter when it is heated to 100,000 times the temperature at the centre of the Sun?



ALICE Data AcQuisition

- 18 detectors
- 5 online systems
- 100's of computers





Marie Curie Fellowship

Job description

- "...identify the relevant information to be stored in the logbook system for archiving."
- "Design, implement, and deploy the relevant database architecture and Web services..."
- "...participate in all the aspects of a high-energy physics experiment..."

Electronic replacement of paper logbook

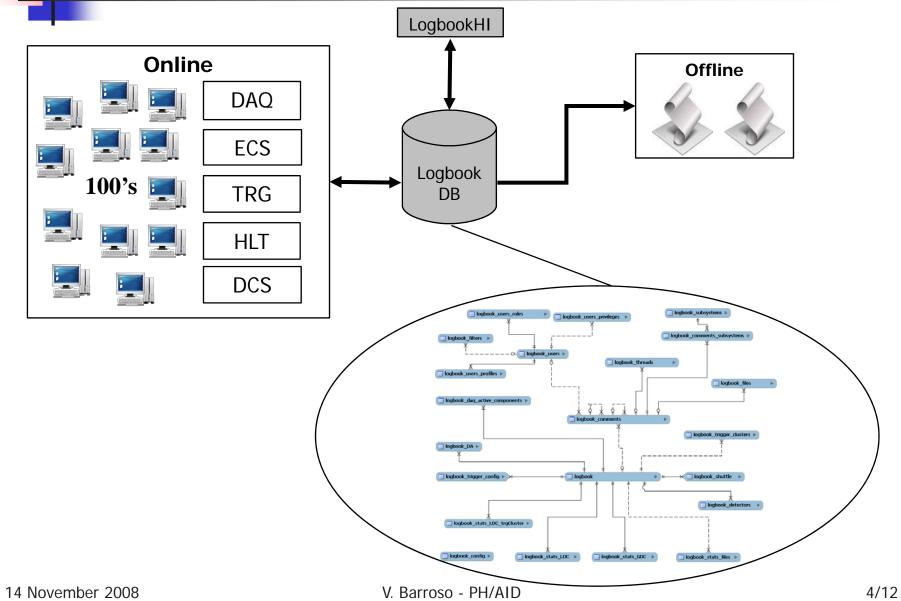
- Custom-made:
 - Extend an existing database
 - Use the most recent web technologies
- Security, performance, reliability, user-friendly

Information repository

good run candidates for offline processing based on overall running conditions

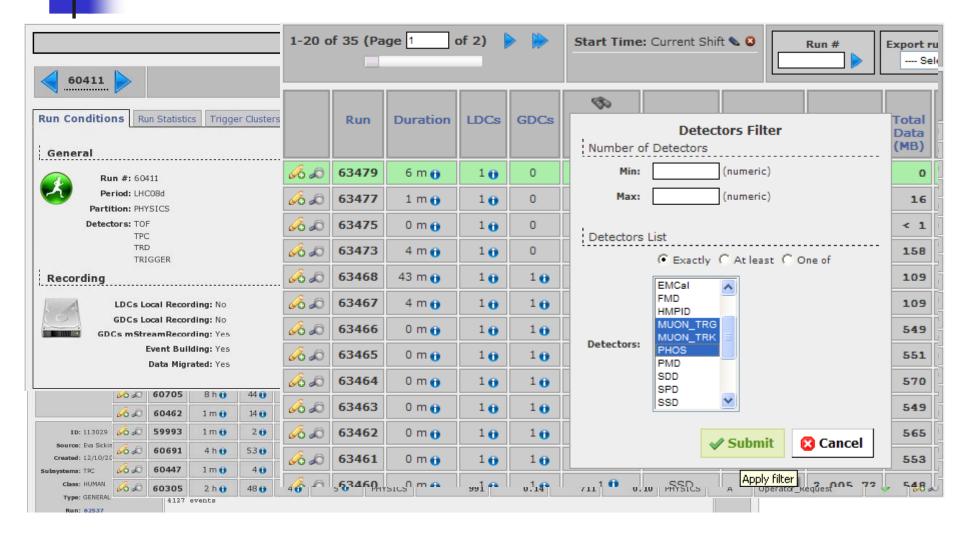


Information Repository



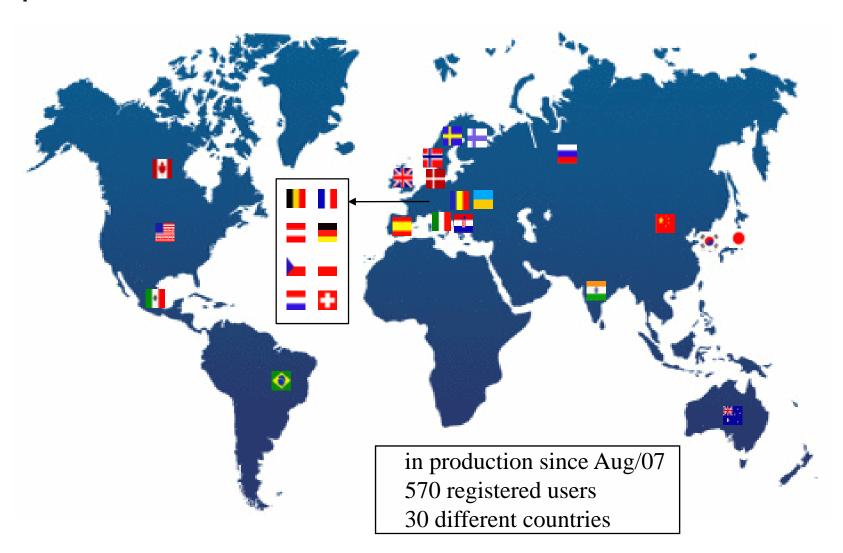


Web Interface





ALICE Electronic Logbook Usage





More than a Logbook?

Electronic replacement of paper logbook

Central piece of the experiment's activities



Detectors participating in runs at 11:37:13

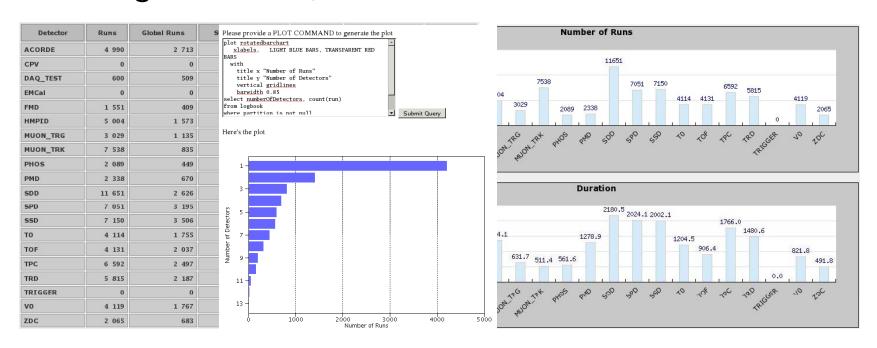
No results found

Dashboard

ounced: Plan for this night: attempt stable data taking with



- Huge repository
- Make it relevant (for data analysis, papers, management, ...)





Management & Communication

- French course Level 4-5-6, January-June 2007, CERN
- Managing Time, April-June 2008, CERN
- Service Orientation, to be scheduled, CERN

Technical

- On-the-job training in web technologies
- CERN School of Computing, August 2007, Dubrovnik
- Certification Parage for Usability, February-June 2008, London
 User Track of Ivsis and conceptual design
 - User Continued of State of
 - Readmining to the sting
 - Fairing research into practice
- Software Engineering in the Small and the Large, to be scheduled, CERN



- ALICE Weeks (oral presentation, audience = 10's)
 - July 2007

March 2008

- October 2007
 October 2008
- ALICE Technical Forum, July 2008 (oral presentation, audience = 10's)
- Marie Curie Conference, Barcelona, July 2008 (poster, audience = 100's)
- CHEP 2009, Prague (abstract submitted)



Collaboration in the development of the DATE software package

 Participation in the day-to-day activities of the ALICE DAQ team

 Contribution to the ALICE experiment commissioning and startup both as DAQ expert (presential and on-call) and shift leader



Objectives in the job description achieved

 Excellent environment that allowed me to evolve personally and technically

 The Alice Electronic Logbook has delivered even more than expected and will continue to evolve