

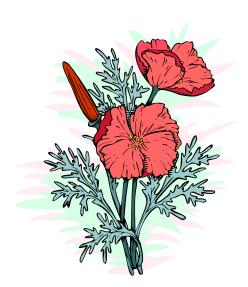


Status of the calibration framework

Magali Gruwé CERN PH/AIP

Alice Offline week

October 3rd 2005











- > Status at previous offline week:
 - ➤ May 17th:
 - Distribution of a draft note describing the AliRoot access classes to the condition database.
 - ➤ May 20th:
 - First implementation of the access classes to the condition database available on CVS
- > Since then:
 - Plans extracted from a presentation in the previous offline week (May 31st)











- Condition Database Note:
 - > New version writing is ongoing, including:
 - > Modifications/clarifications (where needed)
 - > Additional more general parts
 - Description of new classes/methods
- > Implementation:
 - > Comments received will be taken into account
 - > See Alberto's talk









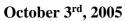


- Condition Database Note:
 - > New version writing is <u>done</u>, including:
 - > Modifications/clarifications (where needed)
 - > Additional more general parts
 - > Description of new classes/methods
 - To be distributed soon



- > Implementation:
 - > Comments received have been taken into account
 - > See Alberto's talk and tutorial
 - > New/improved classes
 - Performance tests
 - > AliEn access classes















- > Gathering data from "external databases":
 - Which data should be duplicated in the condition database?
 - > How to access relevant data from external databases?
 - > Discussions are going on, first thoughts floating around...
 - > To be continued...











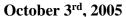


- > Gathering data from "external databases":
 - Which data should be duplicated in the condition database?
 - > Still hoping to get information from detectors!!!!



- > How to access relevant data from external databases?
- > Discussions are going on, first implementations done...
- > To be continued...
- First implementations of interfaces to
 - > DCS database
 - > See Peter Chochula's and Boyko Yordanov's talks
 - DAQ/ECS databases
 - See Sylvain Chapeland's talk













- Detector use of the CDB:
 - > Very important to get feedback from users:

Please do try and comment on the current classes

- > Muon, ZDC and SPD: thank you.
- > Now: try to get other detectors to try and comment
- > DataChallenge this year:
 - > We would like to check the calibration framework
 - Need detectors to participate, using the currently proposed CDB services
 - > Hope to get SDD starting soon
 - > Other detectors?

Magali Gruwé CERN PH/AIP

Hands-on session on Friday morning!!!







- Detector use of the CDB:
 - Very important to get feedback from users:

Please do try and comment on the current classes



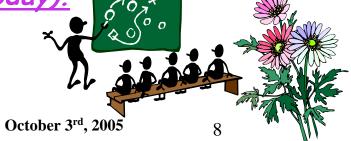
MOST HAVE NOT STARTED!!!!

Tutorials and how-to's on

How to use the access classes (today).

AliEn access (today)

· <u>TGeO (Wednesday)</u>









- > Sessions on calibration:
 - > Reports from offline group
 - > Condition database access classes (new implementation, tutorial, AliEn access, etc...
 - > Reports from detectors...
 - > Session on interfaces with other databases
 - > (DCS and DAQ/ECS)
- > Sessions on alignment:
 - > Reports from the offline group
 - > TGEO, possible alignment strategies, etc...
 - > Reports from detectors...

Discussion and working sessions:

Interaction offline group / detectors!









- > Reports should include:
 - > Status of the calibration and alignment work
 - > Ideas about, answers to and plans concerning a number of urgent issues (see mails by Federico and Magali):











Calibration and alignment issues

- > Try out the framework!
 - > Fill the framework with reasonable calibration/alignment data
 - > Store and retrieve the data

- Indicate which information you need and where it should come from:
 - How are the data going to be obtained?
 - > What are the procedures which will produce the data?
 - Which information will the procedures need?









> Simulate:

- > Simulate uncalibrated data
- > Apply calibration
- > Reconstruct the data

> Simulate:

- > Simulate decalibrated data
- > Retrieve and calibrate the data
- > Reconstruct the data









Alignment issues

- Indicate which parts are the "alignable" parts
- > Go through the code and:
 - Make sure a change in the position of an alignable part results in a change in the position of the recorded hits
 - Make sure a change in the position of an alignable part results in a change in the position of the reconstructed space-points

> Simulate:

- > Simulate with misaligned detectors and verify that the result is indeed misaligned
- > Reconstruct with and without alignment information and verify you can indeed correct for the misalignment
- Reconstruct the misaligned points, apply alignment algorithms and verify you can correct for the misalignment



Conclusion



Once more, we expect a lot from the offline week...

Please Please Please!!!!

Consider these tasks seriously!
... and address them promptly!

Do not hesitate to ask questions, give us feedback, ask for help, etc...