



RPROM meeting
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Muon software status for ORCA 6

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Sommario:

- DT
- CSC
- RPC
- Tracking

ALL:

- Rework all interfaces to match the latest COBRA version. All the persistency, ROUs etc.

Advanced status for RPC/CSC, to be done for DT

DT plan:

- No major modification for this release, just match with new COBRA and CommonDet interface;
- work going on for re-architecture segment building and DT hits as RecHit;

Point 1 do be done (hopefully easy hacking code from CSC/RPC...), 2
longer timescale

CSC plan:

- Fix the LH -z endcap mistake: CMSIM gave LH local coordinates: It may influence the CSC Trigger software (and Muon tracking)
 - introduce the correct transformation of the GEANT3 rotation matrices read from the CMSIM rz geometry file;
 - change the signs of the SimHit coordinates read from CMSIM appropriately to match.
- Some minor (or perhaps not!) updates and fixes to geometry relating to CSC wires.
- Add an extra value to our Strip Digi (SCA start time, for experts.)
- SimHit-Digi association (based on CommonDet base code).

In principle all 'done', test with new CommonDet

RPC plan:

- New Rpc responsible: *Artur Kalinowski*
- migration C8ROU → Suld;
- minor updates in test directories;
- Second endcap problem on it's way (LH coordinate for -z as for CSC).

All well advanced

Tracking plan:

- Improvements can probably wait...
- Modification in track reconstruction access, to match with CommonDet (and Tracker) and facilitate the muon track persistency;
- track persistency: already implemented in private area, require changes in CommonDet (sorry, I mean CommonReco), but we should first agree on *DetUnitNumbering* business;
- Tracking speed-up via improved DetUnit navigation: code (CommonReco) almost ready, need extensive test by Tracker people before committing;
Probably nothing of this (but point 1, maybe) will go into this release