

Data Scouting tests in TR9

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- ▷ run athenaHLT with modified TriggerMenu package (files left by Joerg)
 - ☞ upload to test DB
- ▷ run athenaHLT from test DB
- ▷ localhost partition tests
 - ☞ could not run successfully due to other problems
 - preliminary testing mostly with athenaHLT
 - ☞ spotted that `rerunLVL1` did not work there
- ▷ the **original Muon DS chain** did not work for our purposes
 - ☞ **no DS events** (with 2014 – M4 – data)
- ▷ Catrin merged Joerg's changes with the present TriggerMenu
 - ☞ she added a few other muon chains with different energy levels but this didn't work either
 - ☞ she then added the chain - `HLT_id_cosmic_ds`
 - ☞ we got DS events then

- ▷ First time we got this, all DCMs and HLTPUs terminated
 - ☞ the DCM wasn't handling **multiple HLT results** properly - crash
 - ☞ in the next event, HLTPU found no DCM when requesting ROB's and aborted
- ▷ Andrea managed to understand and fix the problem in the DCM on the fly
 - ☞ emergency path was applied
- ▷ a DS stream was successfully produced by the SFO's
 - ☞ wrong contents – **full events with 2 HLT results**
 - ☞ the first thought was that this was due to a problem in the DCM that prevented correct PEB in some cases
 - observed in cost monitoring
 - DCM removed ROB IDs it did not recognize from the PEB list
 - the ROB id of the **HLT result** and of the **CTP fragment** were not part of the IDs the DCM recognized. . .
 - after removing all rob ids, an **empty PEB list** would remain → full event building
 - **this was actually not the case!**
 - ☞ it turned out that the **HLT** was already returning an empty PEB list
 - bug report opened in Jira to follow this up
 - bug since **corrected** in the steering (ResultBuilder)