

~~CCRC09~~ STEP09

Some first ideas and plans
Discussed at the WLCG workshop
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ATLAS tests in CCRC09

1. DDM Functional test (Simone, Stephane)
 - tests the full ATLAS data placement model including tape (RAW) writing:
T0→T1 (disk), T0→T1(tape), T1→T1 (disk),T1→T2(disk)
 - We can create “nominal” load and file sizes
2. Monte Carlo Simulation Production (Graeme, Borut)
 - Puts load on CPU capacity in T2's and tape writing in the T1
 - MC09 will be ongoing anyway but we can easily increase the load
 - Tests the archival of G4 HITS to tape in T1
 - production FT can be used to increase the load
3. Monte Carlo reconstruction (Graeme, Borut)
 - Puts load on CPU capacity in T1's and tape (ESD) writing
4. Repeat Cosmic Ray Data Re-processing (Douglas)
 - Tests RAW pre-staging from Tape and data access to the WN's
 - Loads T1 CPU capacity and tests (ESD) tape writing
 - If too ambitious, we could run the scripts for pre-staging at sites
5. Run Hammercloud in all clouds (Dan, Johannes)
 - Loads CPU capacity in T2's
 - Tests data access to the WN's

ATLAS timing for CCRC09

- Week 1 June 1-5
 - Setting up all tests at lower rates
 - Small reprocessing and HITS reconstruction in T1's
- Week 2 June 8-12
 - Real CCRC09, run all tests at full rate
- Week 3 June 15-19
 - Contingency
 - reporting

ATLAS metrics for CCRC09

- All T1's must be fully operational
 - no downtimes for >4 hours are allowed during the CCRC09 week
- T2's are supposed to be fully operational
 - T2's may sign off until June 1
- We will size the tests such they all fit within 1 week
 - We will measure what has finished and what not
- Need to define precise tape metrics (rate, efficiency, losses, ..)
- Need to define goals for production and reconstruction rates and efficiencies