CMS readiness - computing

Andrea Sciabà

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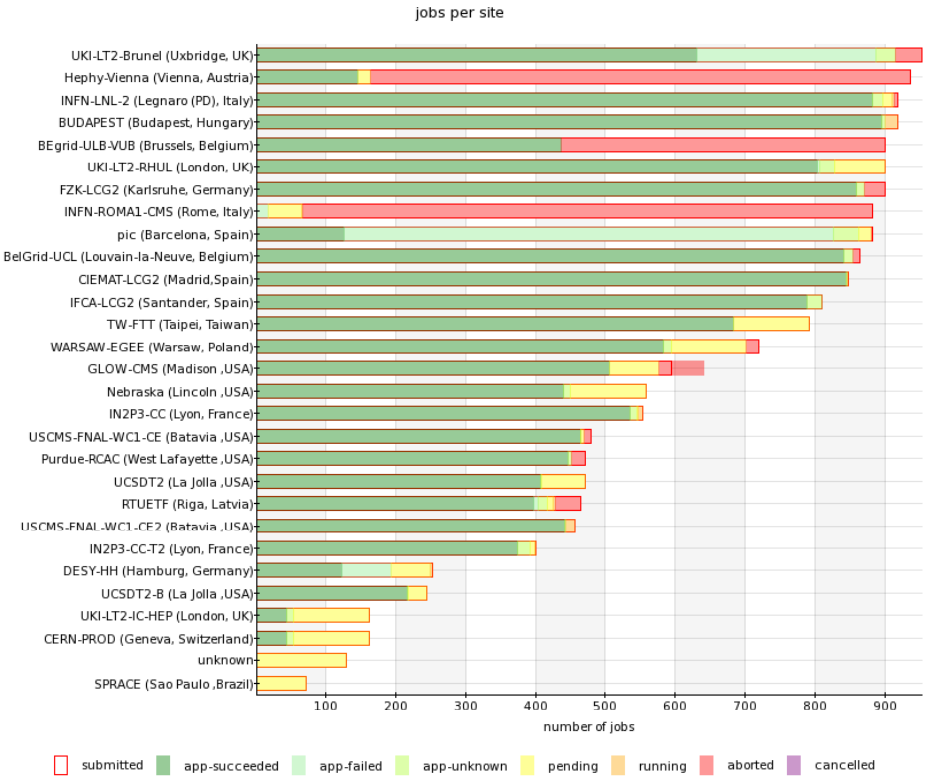
Monte Carlo Production

- Something like 50% of CPU time used during CSA07 should be MC jobs
  - Sites know that they must set up separate shares (50-50) for MC and analysis jobs
- The MC production is running smoothly since a long time, no particular problems are expected there
- Monitoring
  - Situation is still evolving, eventually it should be mainly done via the Dashboard
    - Dashboard database already being fed with information from the Production Agent databases, web interface still missing
    - Work to have full statistics with detailed error messages for Grid and CMSSW failures is ongoing
- Job submission
  - As the rate of MC production during CSA07 would be less than in the past months, there is no problem keeping using the LCG RB
    - Transition to the gLite WMS is desirable but can happen gradually

Analysis

- Includes reprocessing, end-user analysis, job robot, skimming
  - Accounts for about 50% of the CPU usage, but the majority of job submissions (target = 100 kjobs/day)
  - $\approx\frac{1}{2}$ submissions via Condor-G, $\approx \frac{1}{2}$ with gLite WMS
- The Job Robot will be used to reach the target as needed
  - The target is 75 kjobs/day, the threshold is 50 kjobs/day
  - It is already running using the gLite WMS, no serious problems so far with it
    - ☞ Most sites have < 10% failures, only a few do worse



Jobs submitted by the Job Robot

To do

- The monitoring needs some improvement
  - The CMS SAM tests are reliable, but not all real-life problems are spotted by them
    - For example, a test to simulate a simple analysis job is needed
      - Try to access a data sample
      - Do some trivial processing
  - Improve the visualisation of SAM test results and calculate the availability using the same algorithm as WLCG (but with the CMS specific tests)
    - Work ongoing in the ARDA Dashboard
- Fix the problem with the DPM RFIO client for SL4
  - either recompile and distribute with CMSSW, or
  - use xrootd or GridFTP to read data from the WN

Site readiness

- Sites do not look too bad, but
- they should actively look if everything is fine (CMS SAM, Job Robot, etc.)
  - A 10% of failures is not a disaster, but is still painful, in particular for users doing analysis
    - An effort is required to lower this figure
  - There is simply not enough manpower in the CMS computing commissioning team to discover, track and solve all problems at all sites
    - Somebody at each site must take care of looking at the CMS monitoring tools and make at least a serious attempt at fixing any problems found
    - When this happens, it makes a difference!