Grid Reliability Summary (Job Attempts - WMS) February 2007

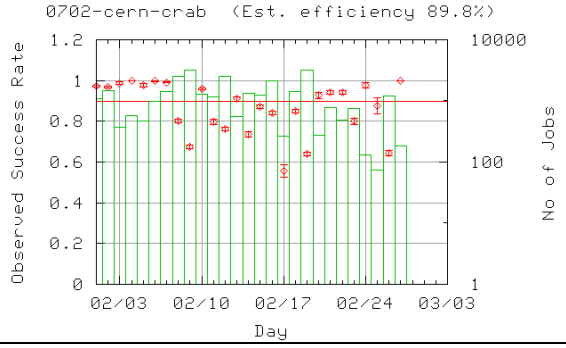
SiteName	ALICE	ATLAS	CMS	LHCB	TOTAL
BNL-LCG2	no jobs	74 vs. 196 (27.41%)	no jobs	no jobs	74 vs 196 (27.41%)
CERN-PROD	19015 vs. 1233 (93.91%)	4635 vs. 8077 (36.46%)	6536 vs. 11638 (35.96%)	14320 vs. 4427 (76.39%)	44506 vs 25375 (63.69%)
FZK-LCG2	17501 vs. 472 (97.37%)	1624 vs. 2469 (39.68%)	3874 vs. 3611 (51.76%)	11232 vs. 3010 (78.87%)	34231 vs 9562 (78.17%)
IN2P3-CC	3096 vs. 96 (96.99%)	2446 vs. 982 (71.35%)	1813 vs. 1824 (49.85%)	4164 vs. 101 (97.63%)	11519 vs 3003 (79.32%)
INFN-T1	13166 vs. 80 (99.40%)	1949 vs. 429 (81.96%)	8373 vs. 2496 (77.04%)	5427 vs. 725 (88.22%)	28915 vs 3730 (88.57%)
NIKHEF-ELPROD	134 vs. 0 (100.00%)	461 vs. 57 (89.00%)	5 vs. 4 (55.56%)	11240 vs. 179 (98.43%)	11840 vs 240 (98.01%)
RAL-LCG2	980 vs. 1001 (49.47%)	1460 vs. 692 (67.84%)	407 vs. 740 (35.48%)	10027 vs. 12499 (44.51%)	12874 vs 14932 (46.30%)
Taiwan-LCG2	no jobs	6159 vs. 987 (86.19%)	1659 vs. 653 (71.76%)	no jobs	7818 vs 1640 (82.66%)
USCMS-FNAL-WC1	no jobs	no jobs	6629 vs. 27796 (19.26%)	no jobs	6629 vs 27796 (19.26%)
pic	no jobs	354 vs. 186 (65.56%)	1706 vs. 1150 (59.73%)	5513 vs. 3190 (63.35%)	7573 vs 4526 (62.59%)
TOTAL	53892 vs 2882 (94.92%)	19162 vs 14075 (57.65%)	31002 vs 49912 (38.31%)	61923 vs 24131 (71.96%)	165979 vs 91000 (64.59%)

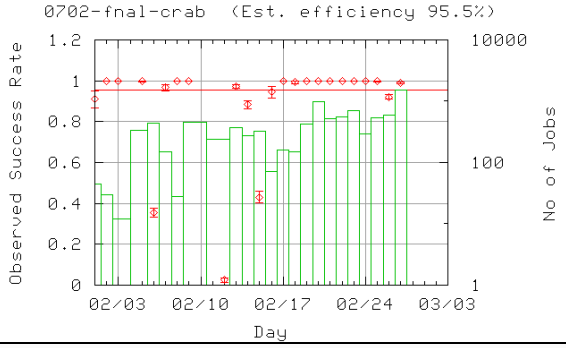
The URL of this page (providing additional information) is: http://dboard-gr.cern.ch/dashboard/data/monthlysummaries/Feb-07.html

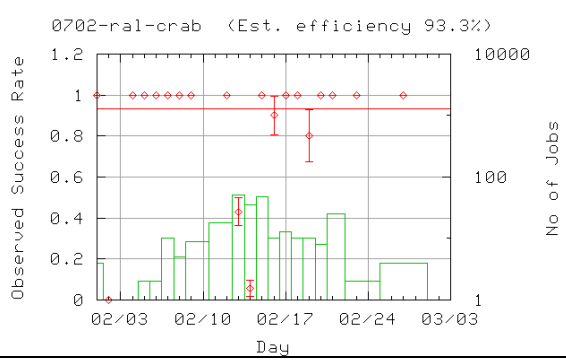
Please note that we started collecting ALICE data on the 11th of February

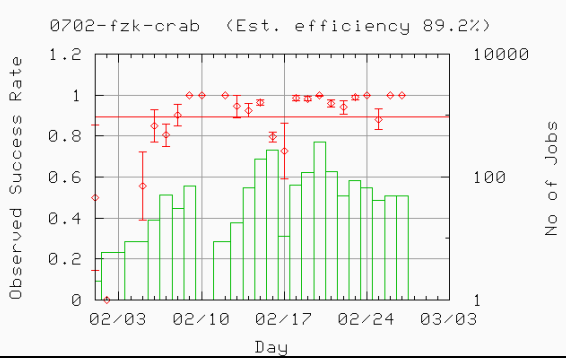
This table includes job attempts for jobs that went through a WMS RB. In the case of CMS, only jobs that report to RGMA are included. For the other three VOs, we also include jobs reported by the Imperial College RunTime Monitor
This table does not include jobs submitted directly to the CE, since they do not generate logging information

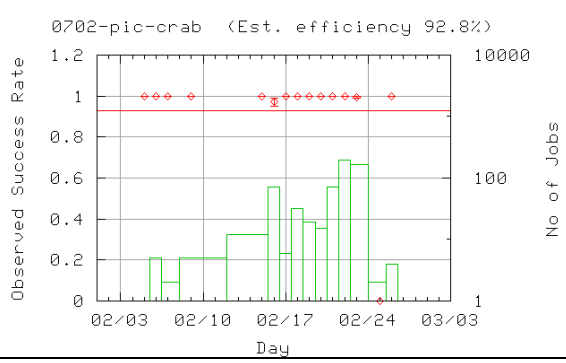
CRAB users analysis jobs (VO=CMS) February 2007

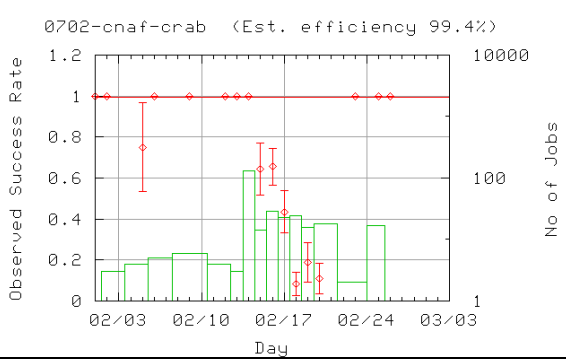




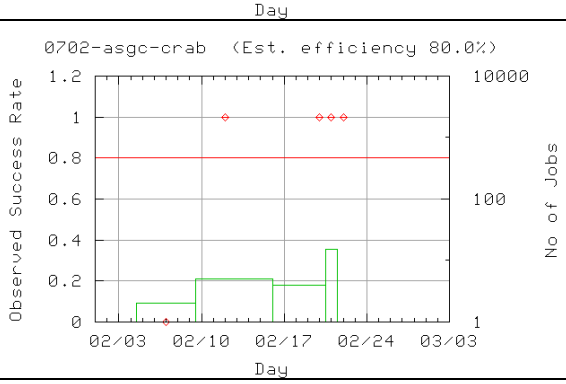


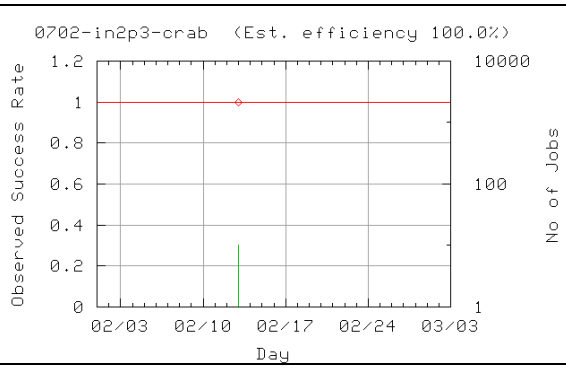




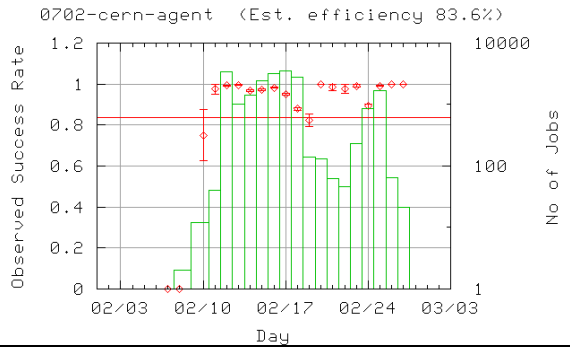


NIKHEF not running CMS/CRAB jobs

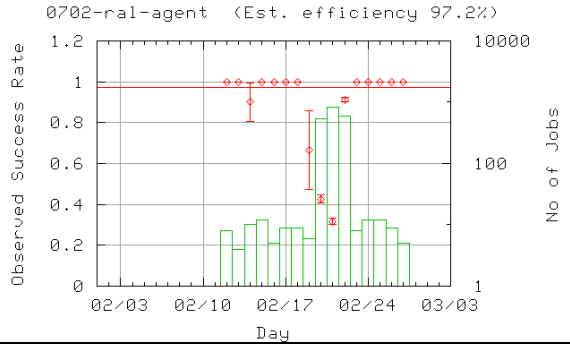


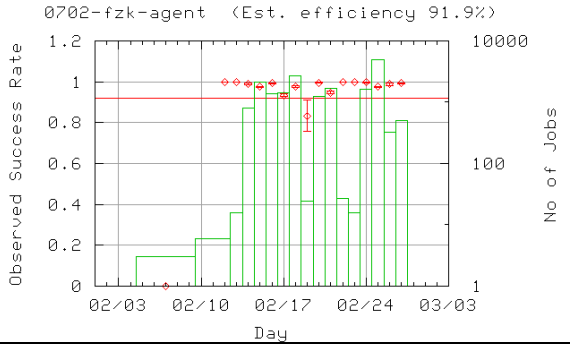


Job agents (VO=ALICE) February 2007

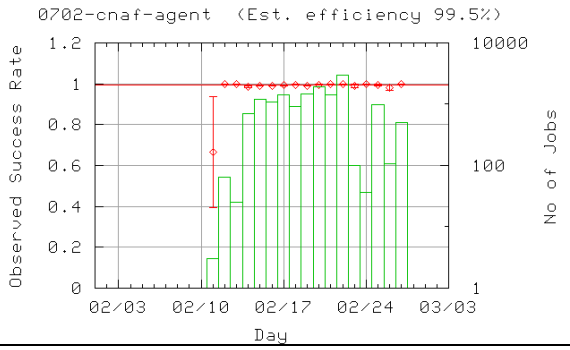


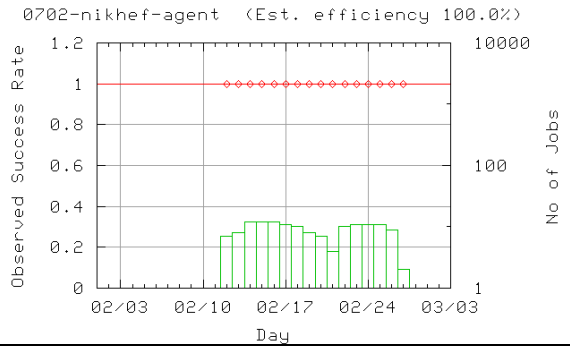
FNAL not supporting ALICE



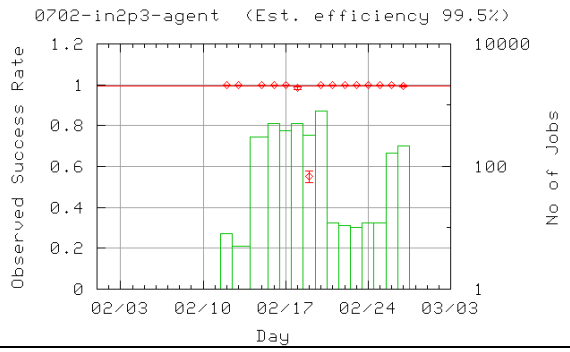


PIC not supporting ALICE

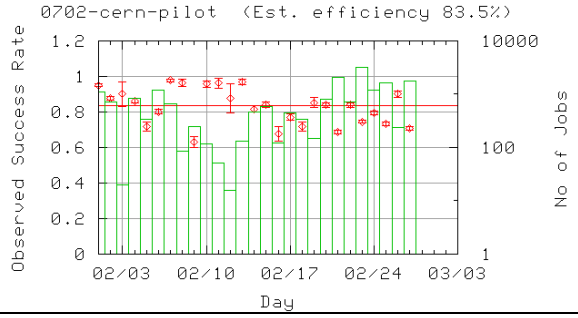




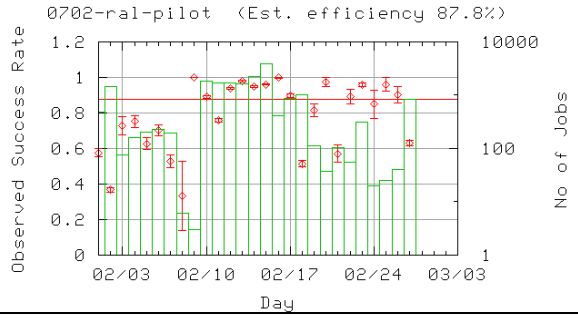
ASGC not supporting ALICE

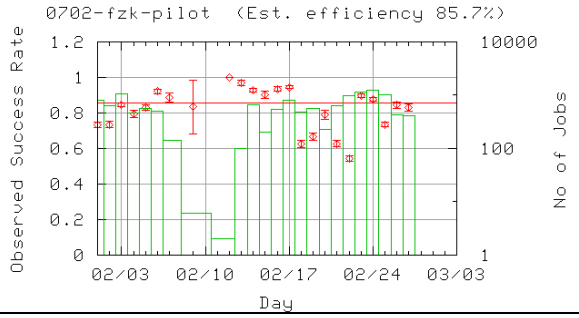


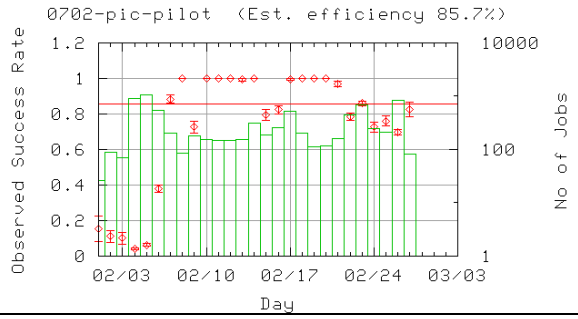
Pilot jobs (VO=LHCb) February 2007

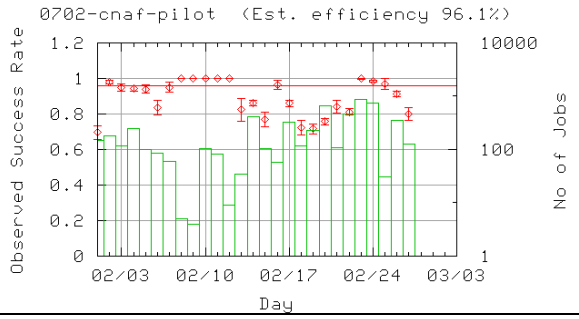


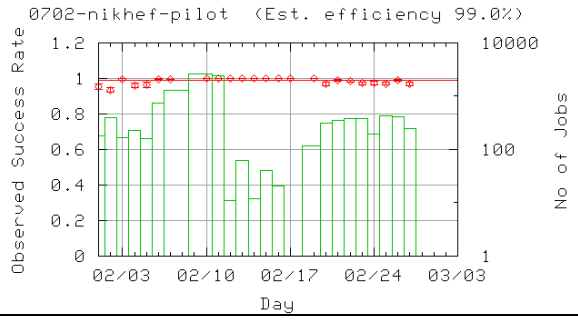
FNAL not supporting LHCb



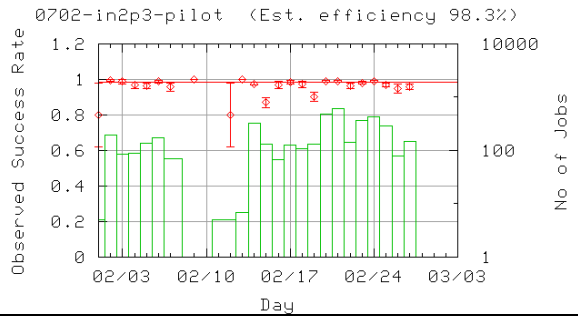








ASGC not supporting LHCb



Comments

Grid Reliability

The Grid Reliability table shows the efficiency computed as the ratio of successful jobs attemps over the total number of attempted submissions. In each cell, the number of success vs failures is also printed. We consider successful attempts those that finish with either status 'CLEARED' or 'DONE'. In case that the job has been followed up by RGMA, we also require that the last message of the job attempt was either 'Job terminated successfully' or 'User retrieved output sandbox'. Another detail that has to be taken into account is that attempts that finish with a message like 'Retry count limit reached' are considered neither as failed nor as successful.

This measurement relies on the WMS logging (Logging and Bookkeeping) and uses the information of all job submission attempts (i.e. a successful job execution might be the result of the 2 unsuccessful submission attempts and a final successful one, in the case that the WMS allows at least 2 re-submissions).

The "total" cells contain the efficiency summing up by site or by VO. A "grand-total" cell estimates the efficiency of the overall service as seen by the 4 VOs as a whole. Note that all of these figures are computed using the total of number of attempted submissions – the efficiency observed by the user would be the ratio of successful jobs to the total number of jobs submitted by the user (re-submission attempts by the WMS would not be included).

These efficiency figures account only for the Grid efficiency and do not contain application failures or site problems independent of the WMS

Application efficiency

The red points are the efficiency calculations computed day-by-day with the statistical error. The green histograms show (log scale on the right hand side of the plot) the number of job executed per day.

The data are a subset of all the jobs executed by a given VO.

- CMS: CRAB user analysis jobs
- ALICE: job agents
- LHCb: pilot jobs

Efficiencies are computed using *n* (number of jobs submitted, either finished or aborted, but excluding automatic re-submissions by the WMS) and *k* (number of jobs finished successfully from a Grid point of view).

The efficiency is $\varepsilon = \frac{k}{n}$ and the statistical error (shown on the plot) is $\sigma = \sqrt{\frac{\varepsilon\,(1-\varepsilon)}{\mathrm{n}}}$.
The mean value (red horizontal line and printed at the top of the plot) is the weighted means of all ε (day-by-day) and the error is the statistical error plus a 1% fixed systematic error (added in quadratically).

Other sites

We have also created a tool to display the efficiency of any site. The URLS below can be used to generate plots similar to the ones presented in this report.
http://dashb-alice/dashboard/request.py/MonthlyReportIndex
http://dashb-atlas/dashboard/request.py/MonthlyReportIndex
http://dashb-lhcb/dashboard/request.py/MonthlyReportIndex