LCG-France Tier-1

Réunion de Coordination

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Lyon, 5 avril 2007

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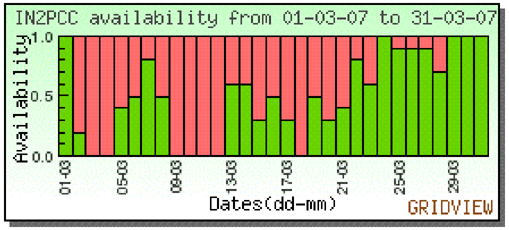
Disponibilité du site (1/3)

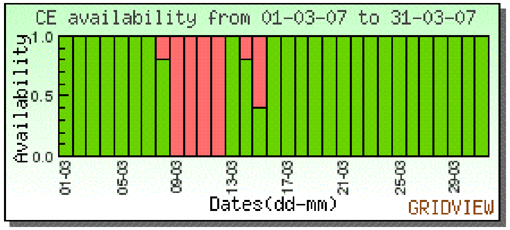
- Mars 2007

Overall Service Availablity for site IN2PCC : Daily Report

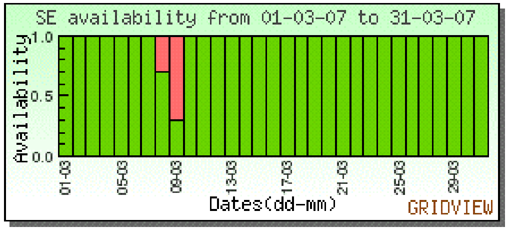


Individual Service Availablity for site IN2PCC : Daily Report

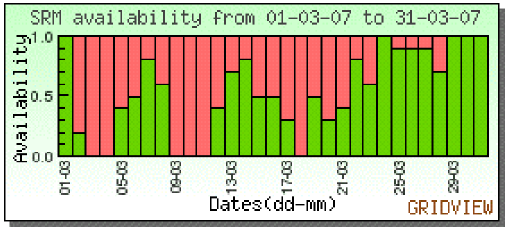
CE



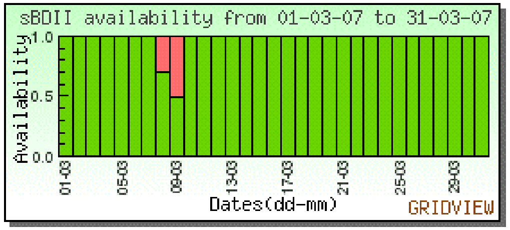
SE



SRM



sBDII



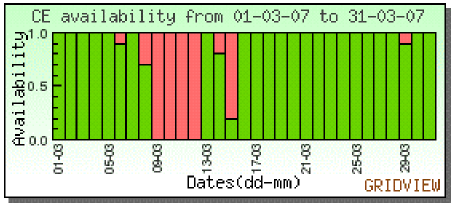
Source: http://gridview.cern.ch

Disponibilité du site (2/3)

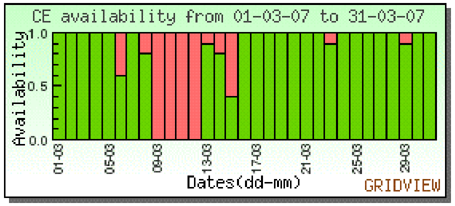
Service Instance Availablity for site IN2PCC : Daily Report

Site Services

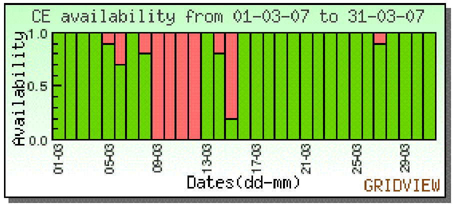
CE : cclcgceli01.in2p3.fr



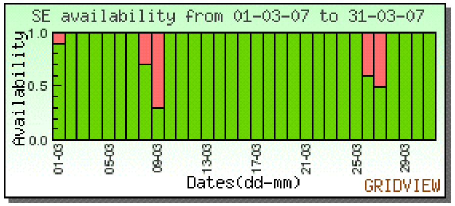
CE : cclcgceli02.in2p3.fr



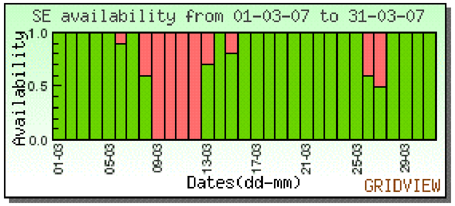
CE : cclcgceli03.in2p3.fr



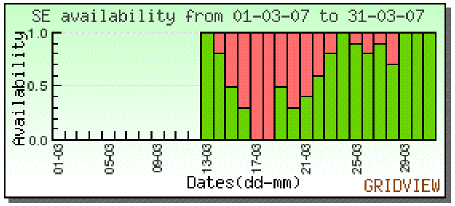
SE : cclcgseli01.in2p3.fr



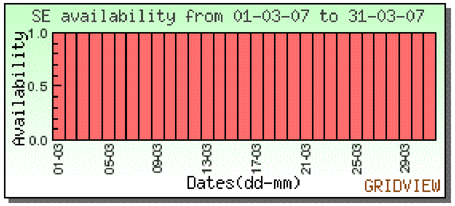
SE : cclcgseli02.in2p3.fr



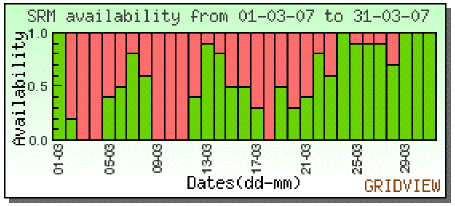
SE : ccsrm.in2p3.fr



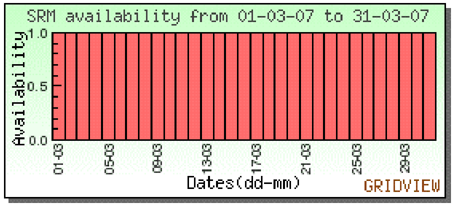
SE : ccsrm02.in2p3.fr



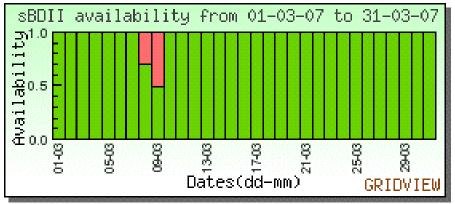
SRM : ccsrm.in2p3.fr



SRM : ccsrm02.in2p3.fr

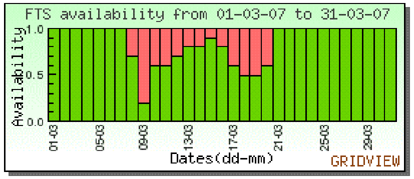


sBDII : cclcgip01.in2p3.fr



Central Services

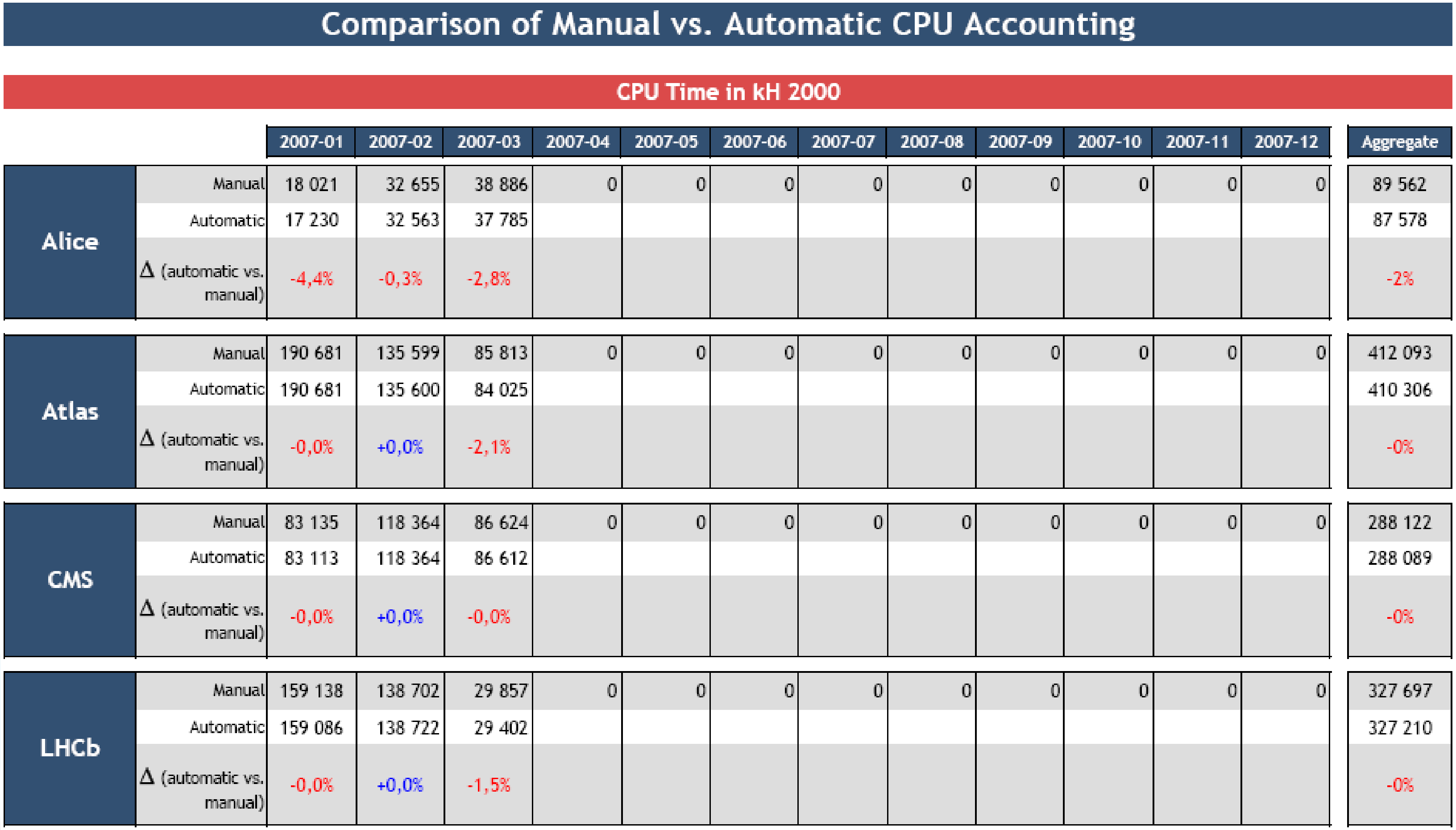
FTS : cclcgftsprod01.in2p3.fr



Disponibilité du site (3/3)

- Déploiement d’une TopBDII régionale/locale pourrait diminuer le taux d’échec des tests SAM
- Exploitation quotidienne
  - Y a-t-il un processus en place pour suivre ces indicateurs?
- Mise en place de journaux d’exploitation
  - Facilite le reporting mensuel

Accounting



Comparison of Manual vs. Automatic CPU Accounting

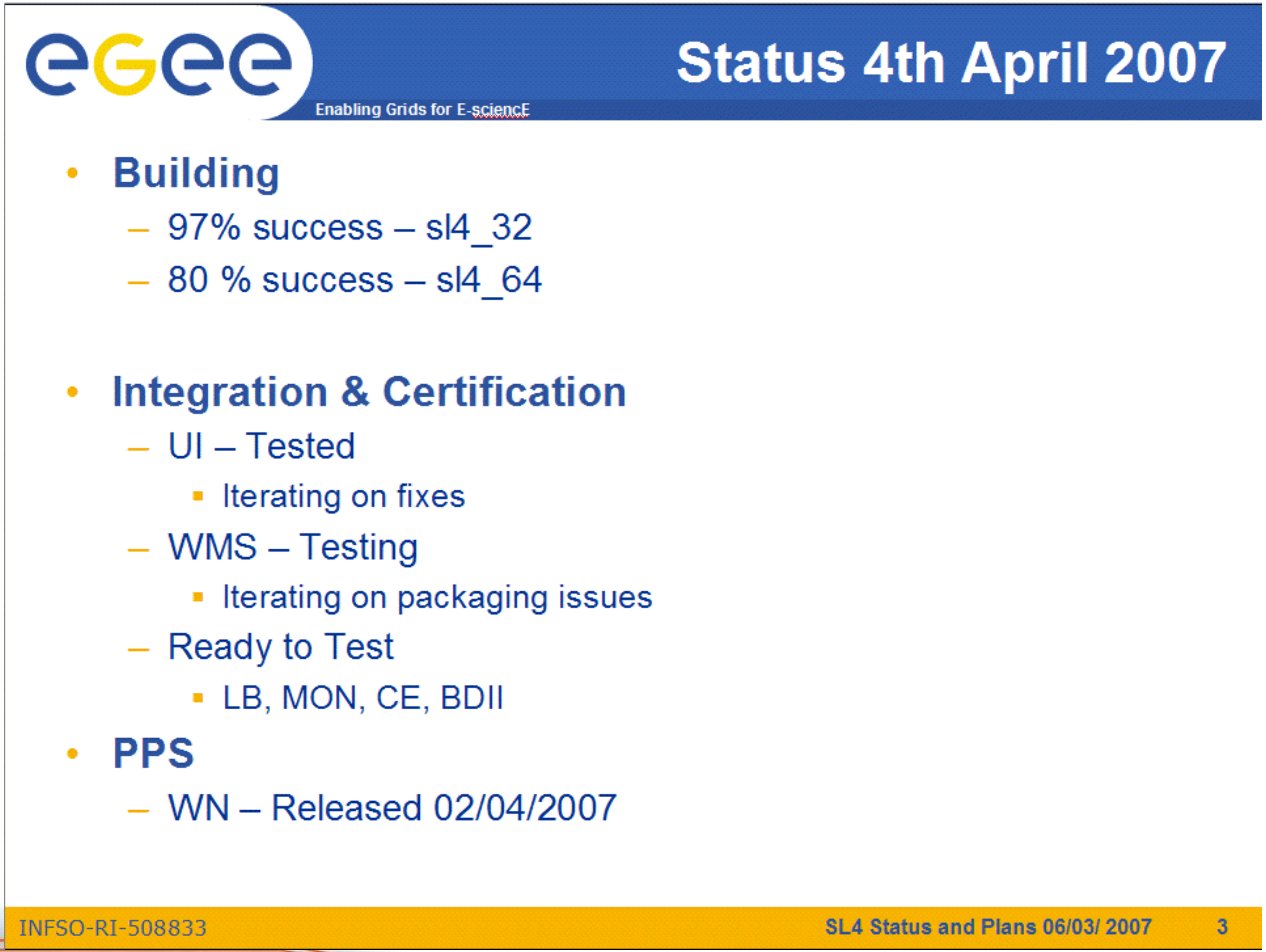
CPU Time in kH 2000

		2007-01	2007-02	2007-03	2007-04	2007-05	2007-06	2007-07	2007-08	2007-09	2007-10	2007-11	2007-12	Aggregate
Alice	Manual	18 021	32 655	38 886	0	0	0	0	0	0	0	0	0	89 562
	Automatic	17 230	32 563	37 785										87 578
	Δ (automatic vs. manual)	-4,4%	-0,3%	-2,8%										-2%
Atlas	Manual	190 681	135 599	85 813	0	0	0	0	0	0	0	0	0	412 093
	Automatic	190 681	135 600	84 025										410 306
	Δ (automatic vs. manual)	-0,0%	+0,0%	-2,1%										-0%
CMS	Manual	83 135	118 364	86 624	0	0	0	0	0	0	0	0	0	288 122
	Automatic	83 113	118 364	86 612										288 089
	Δ (automatic vs. manual)	-0,0%	+0,0%	-0,0%										-0%
LHCb	Manual	159 138	138 702	29 857	0	0	0	0	0	0	0	0	0	327 697
	Automatic	159 086	138 722	29 402										327 210
	Δ (automatic vs. manual)	-0,0%	+0,0%	-1,5%										-0%

Priorités des jobs

- Réunion spécifique à ce sujet le 23/03/2007
  - http://indico.in2p3.fr/conferenceDisplay.py?confId=216
- Solution (temporaire) en place pour l'ordonnancement des jobs basé sur les rôles/groupes VOMS
  - Solution sera maintenue jusqu'à ce que les nouvelles fonctionnalités de BQS soient opérationnelles
    - *Estimation: automne 2007*
- A finaliser
  - Publication l'information dans le système d'information du site (VOViews)

Scientific Linux 4 (1/2)



Enabling Grids for E-sciencE

Status 4th April 2007

- **Building**
  - 97% success – sl4_32
  - 80 % success – sl4_64
- **Integration & Certification**
  - UI – Tested
    - Iterating on fixes
  - WMS – Testing
    - Iterating on packaging issues
  - Ready to Test
    - LB, MON, CE, BDII
- **PPS**
  - WN – Released 02/04/2007

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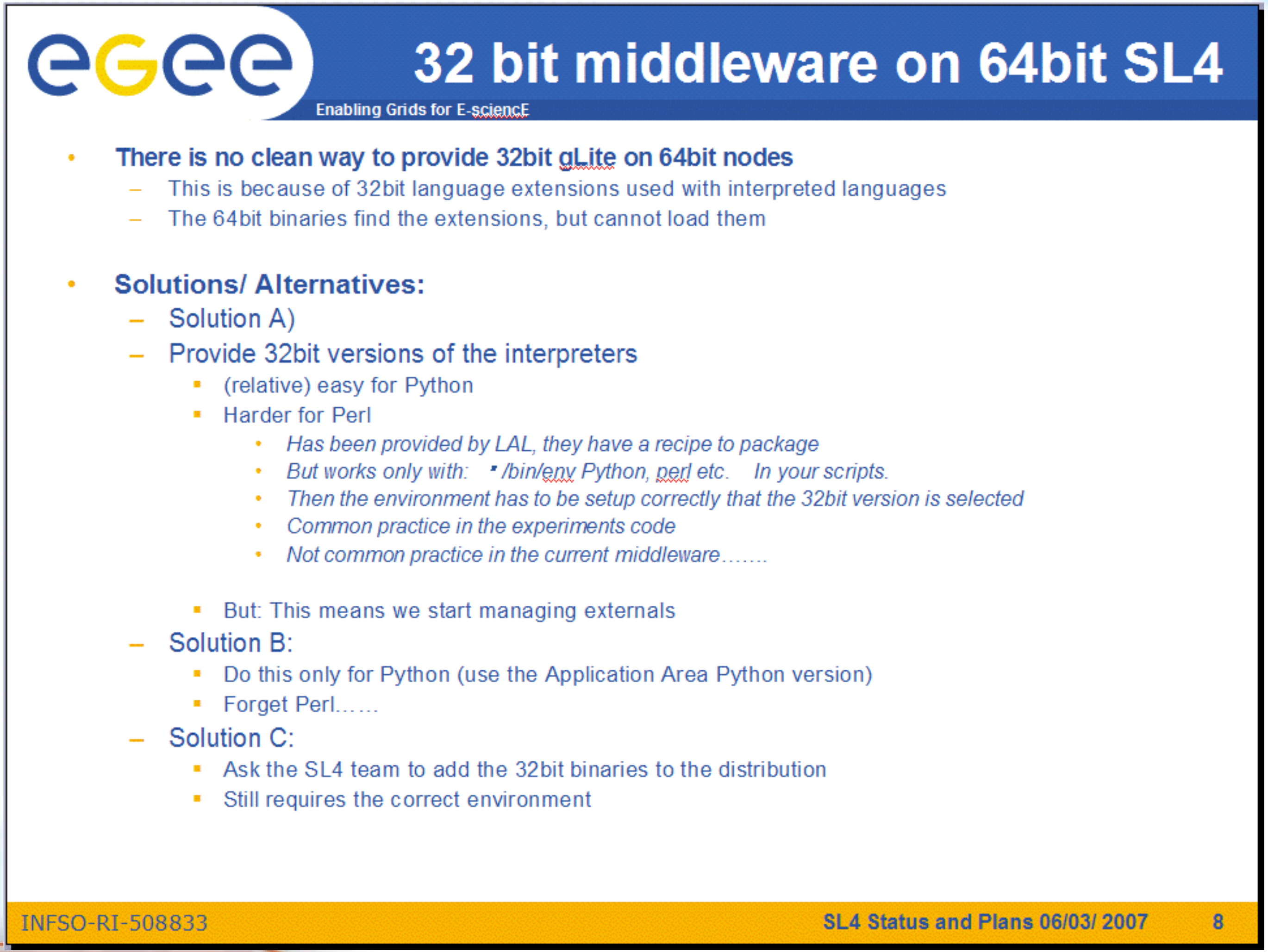
Source: Laurence Field, GDB 04/04/2007

Scientific Linux 4 (2/2)



32 bit middleware on 64bit SL4

Enabling Grids for E-sciencE

- **There is no clean way to provide 32bit gLite on 64bit nodes**
  - This is because of 32bit language extensions used with interpreted languages
  - The 64bit binaries find the extensions, but cannot load them

- **Solutions/ Alternatives:**
  - Solution A)
  - Provide 32bit versions of the interpreters
    - (relative) easy for Python
    - Harder for Perl
      - *Has been provided by LAL, they have a recipe to package*
      - *But works only with: ▪ /bin/env Python, perl etc. In your scripts.*
      - *Then the environment has to be setup correctly that the 32bit version is selected*
      - *Common practice in the experiments code*
      - *Not common practice in the current middleware…….*

    - But: This means we start managing externals
  - Solution B:
    - Do this only for Python (use the Application Area Python version)
    - Forget Perl……
  - Solution C:
    - Ask the SL4 team to add the 32bit binaries to the distribution
    - Still requires the correct environment

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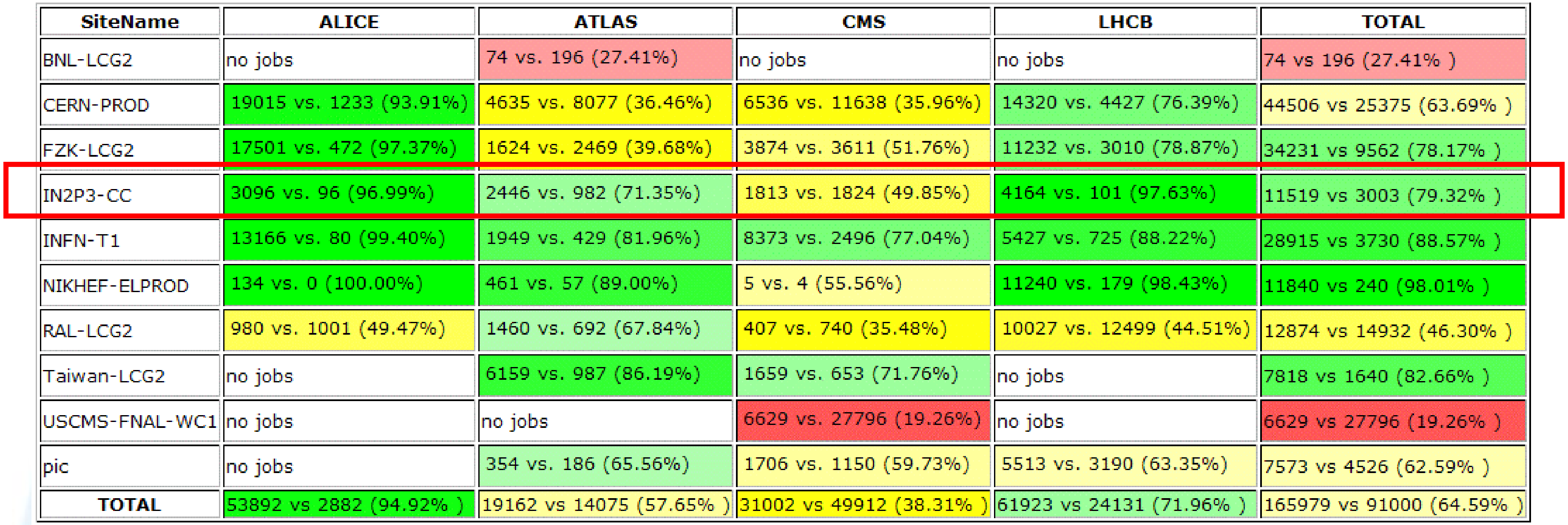
Source: Laurence Field, GDB 04/04/2007

Efficacité des sites (1/2)

- Dashboard ARDA
  - Février 2007

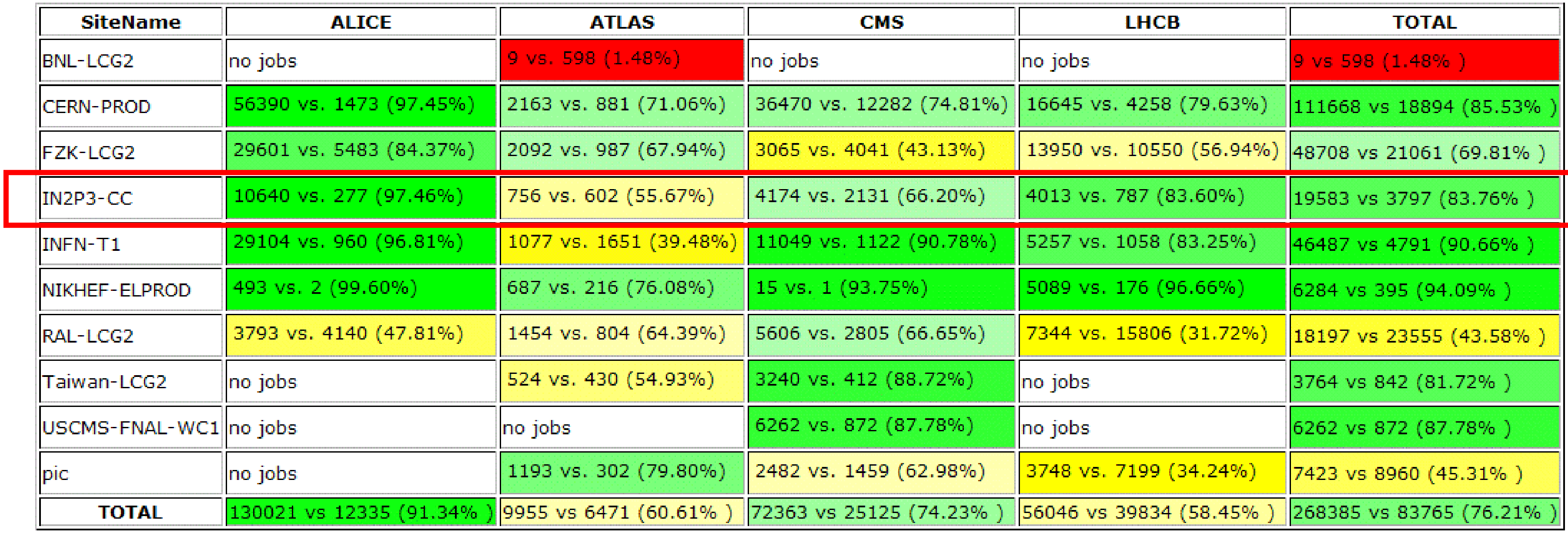


SiteName	ALICE	ATLAS	CMS	LHCB	TOTAL
BNL-LCG2	no jobs	74 vs. 196 (27.41%)	no jobs	no jobs	74 vs 196 (27.41%)
CERN-PROD	19015 vs. 1233 (93.91%)	4635 vs. 8077 (36.46%)	6536 vs. 11638 (35.96%)	14320 vs. 4427 (76.39%)	44506 vs 25375 (63.69%)
FZK-LCG2	17501 vs. 472 (97.37%)	1624 vs. 2469 (39.68%)	3874 vs. 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%)

Source: http://dboard-gr.cern.ch/dashboard/data/monthlysummaries/Feb-07.html

Efficacité des sites (2/2)

- Mars 2007



SiteName	ALICE	ATLAS	CMS	LHCB	TOTAL
BNL-LCG2	no jobs	9 vs. 598 (1.48%)	no jobs	no jobs	9 vs 598 (1.48%)
CERN-PROD	56390 vs. 1473 (97.45%)	2163 vs. 881 (71.06%)	36470 vs. 12282 (74.81%)	16645 vs. 4258 (79.63%)	111668 vs 18894 (85.53%)
FZK-LCG2	29601 vs. 5483 (84.37%)	2092 vs. 987 (67.94%)	3065 vs. 4041 (43.13%)	13950 vs. 10550 (56.94%)	48708 vs 21061 (69.81%)
IN2P3-CC	10640 vs. 277 (97.46%)	756 vs. 602 (55.67%)	4174 vs. 2131 (66.20%)	4013 vs. 787 (83.60%)	19583 vs 3797 (83.76%)
INFN-T1	29104 vs. 960 (96.81%)	1077 vs. 1651 (39.48%)	11049 vs. 1122 (90.78%)	5257 vs. 1058 (83.25%)	46487 vs 4791 (90.66%)
NIKHEF-ELPROD	493 vs. 2 (99.60%)	687 vs. 216 (76.08%)	15 vs. 1 (93.75%)	5089 vs. 176 (96.66%)	6284 vs 395 (94.09%)
RAL-LCG2	3793 vs. 4140 (47.81%)	1454 vs. 804 (64.39%)	5606 vs. 2805 (66.65%)	7344 vs. 15806 (31.72%)	18197 vs 23555 (43.58%)
Taiwan-LCG2	no jobs	524 vs. 430 (54.93%)	3240 vs. 412 (88.72%)	no jobs	3764 vs 842 (81.72%)
USCMS-FNAL-WC1	no jobs	no jobs	6262 vs. 872 (87.78%)	no jobs	6262 vs 872 (87.78%)
pic	no jobs	1193 vs. 302 (79.80%)	2482 vs. 1459 (62.98%)	3748 vs. 7199 (34.24%)	7423 vs 8960 (45.31%)
TOTAL	130021 vs 12335 (91.34%)	9955 vs 6471 (60.61%)	72363 vs 25125 (74.23%)	56046 vs 39834 (58.45%)	268385 vs 83765 (76.21%)

Source: http://dboard-gr.cern.ch/dashboard/data/monthlysummaries/Mar-07.html

Réplication des bases des données (LCG 3D)

- Réunion spécifique
  - ATLAS: forte croissance des besoins
  - LHCb: réplication des bases du LFC central
    - *LFC read-only à Lyon*
  - http://indico.in2p3.fr/conferenceDisplay.py?confId=224

Aujourd’hui

- Etat de l’intégration à l’exploitation des services grille (suite)
- Conclusions sur l’étude d’utilisation de la mémoire par les jobs LHC

Prochaine réunion

- Etat de l’intégration à l’exploitation des services grille (suite)
- Outils de monitoring

Questions/Commentaires