



Comportement jobs analyse

LA, GR, DM, FF, RL, RV

11/02/2010

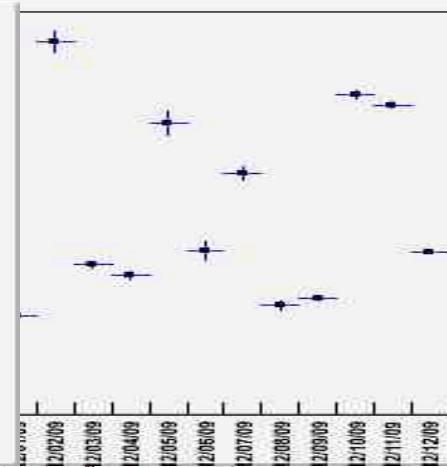
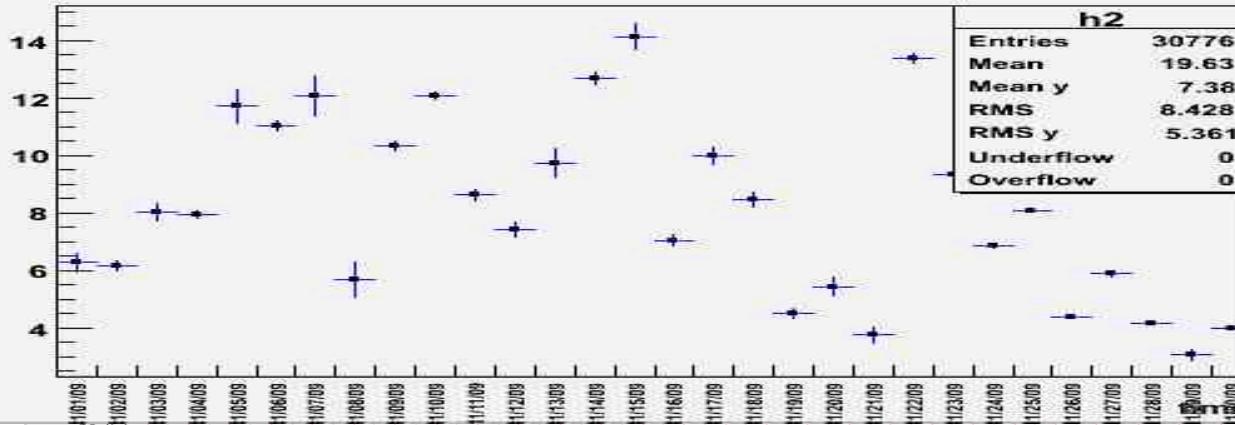


Charge Anastasie (2/11/09-7/12/09)

atlas099-dec-2009

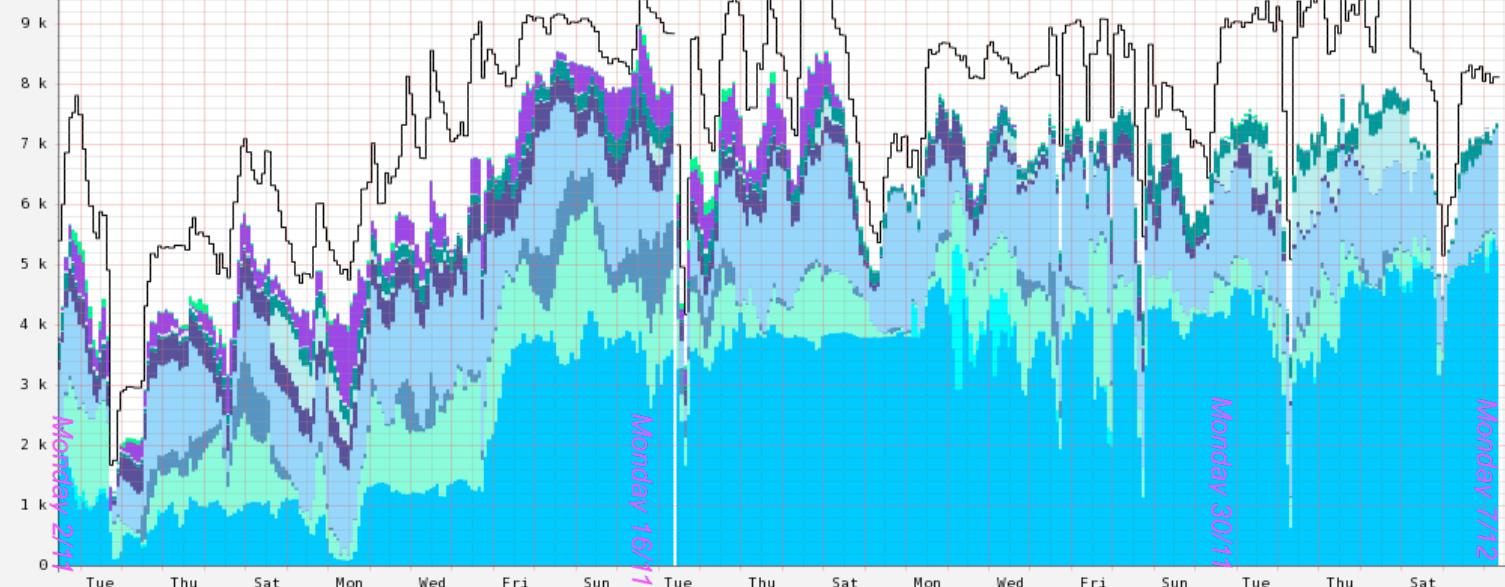
atlas099-nov-2009

waiting time (minutes)



atlas099-dec-2009

running jobs

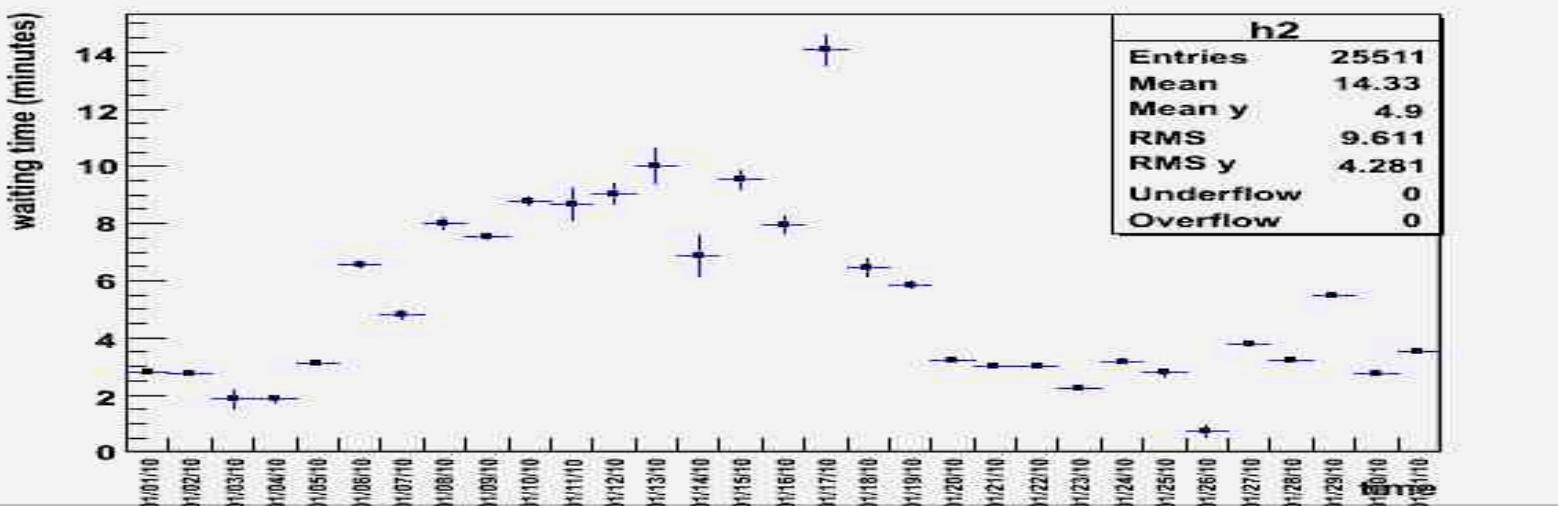


	Current	%	Average	%	Maximum	Minimum	
■ all_jobs:	8260 jobs	100.0 %	7597 jobs	100.0 %	9961 jobs	1677 jobs	others: 1291 current jobs
■ atlas:	4682 jobs	56.7 %	2983 jobs	39.3 %	5412 jobs	85 jobs	
■ alice:	2 jobs	0.0 %	47 jobs	0.6 %	2418 jobs	0 jobs	
■ cmst:	16 jobs	0.2 %	756 jobs	10.0 %	2513 jobs	0 jobs	
■ lhcb:	77 jobs	0.9 %	204 jobs	2.7 %	1396 jobs	0 jobs	
■ d0:	2084 jobs	25.2 %	1360 jobs	17.9 %	2252 jobs	0 jobs	
■ siren:	0 jobs	0.0 %	0 jobs	0.0 %	0 jobs	0 jobs	



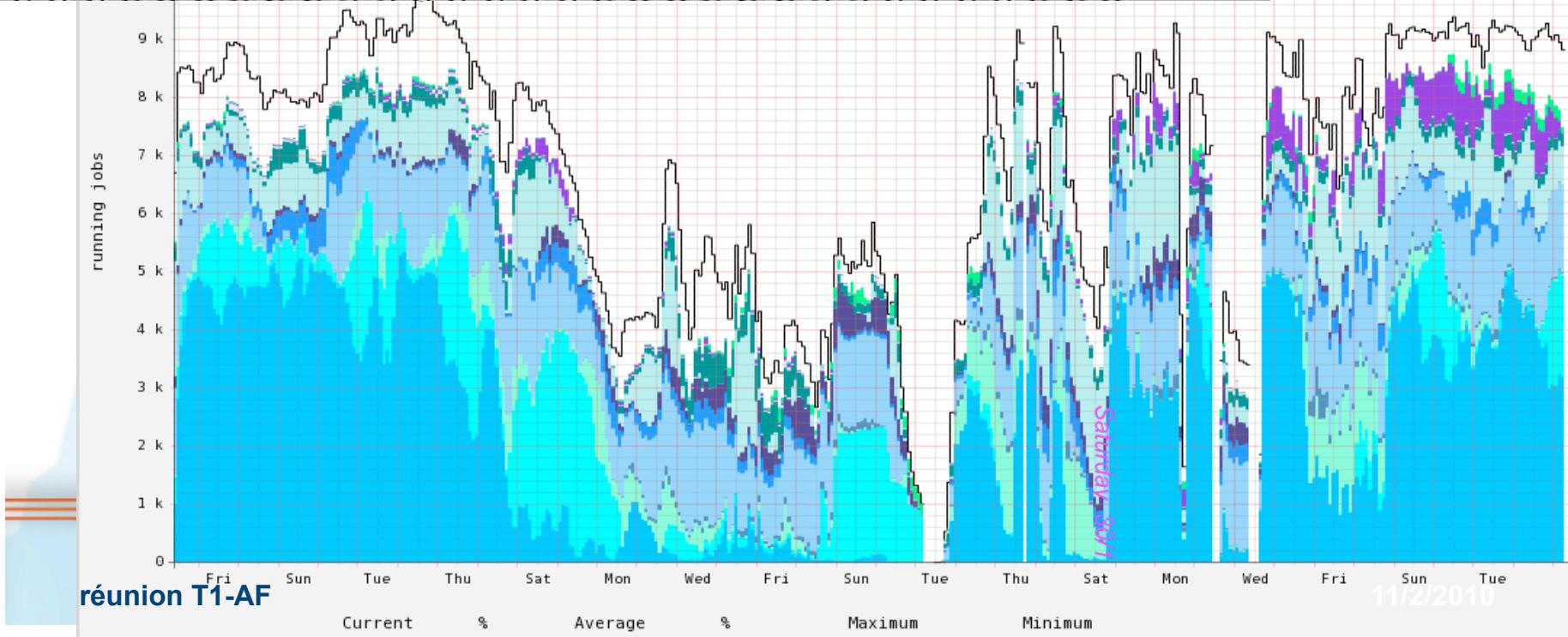
Charge Anastasie jeudi 7/1 au 11/2

atlas099-jan-2010



, updated all 2 hours

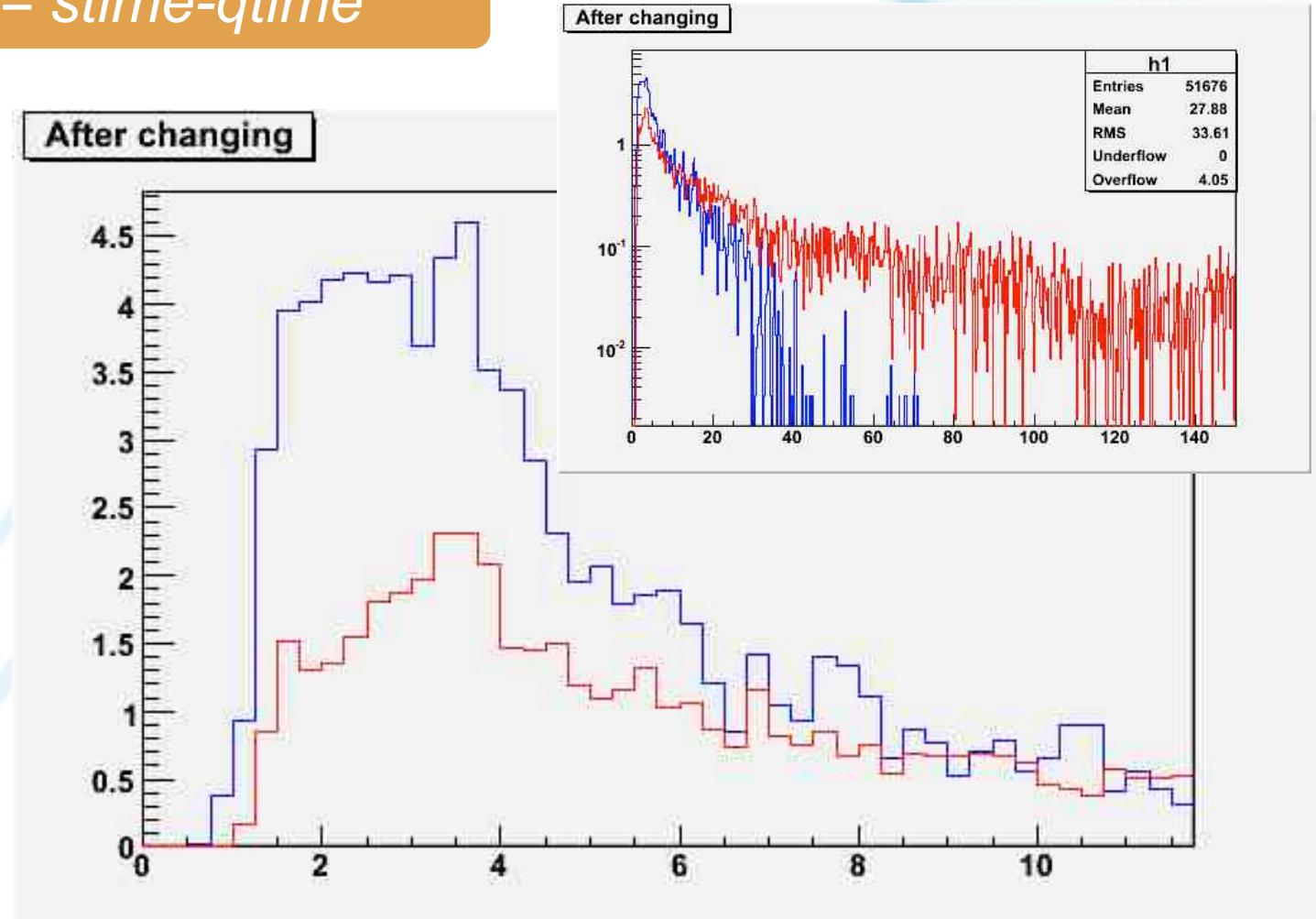
RRTOOL / TOBI OETIKER





Waiting time = stime-qtime

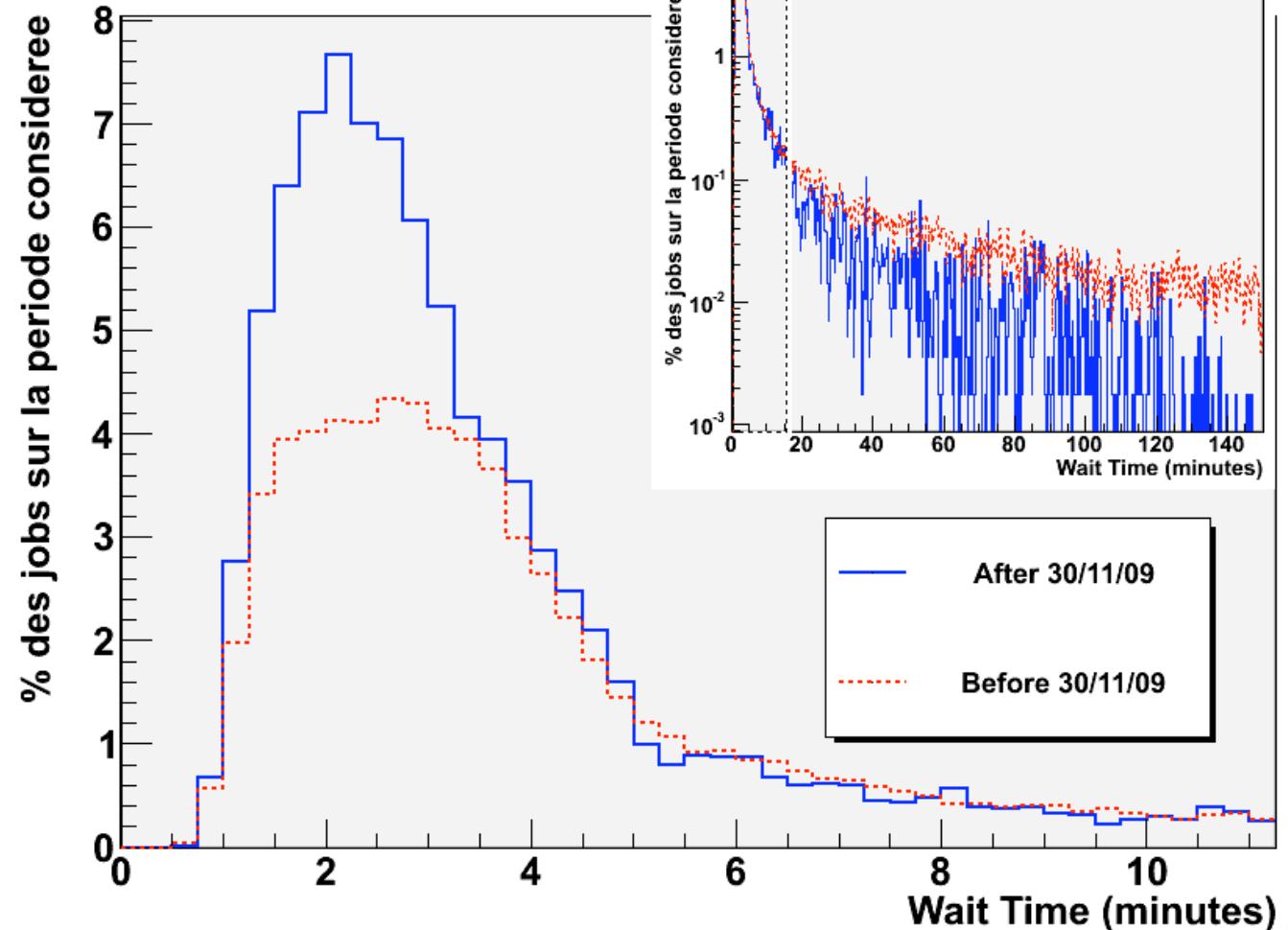
- Comparaison Nov (rouge) Dec (Bleu)
- Jobs analyse en classe G
- Amélioration après le 30/11/09!





Waiting time = stime-qtime

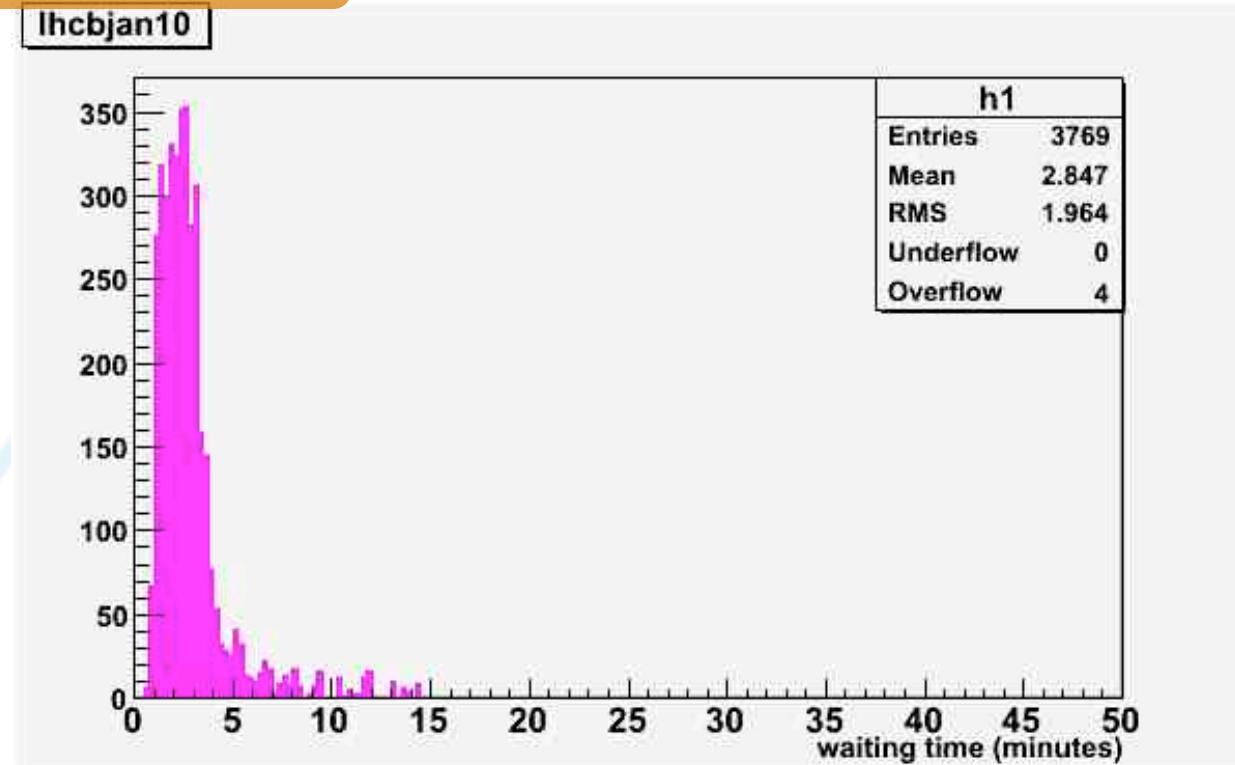
- Comparaison zone 1/10/9-30/11/09 avec 1/11/09-1/2/10
- Echantillon: tous les jobs en classe T: production ou analyse.
- Amélioration après le 30/11/09!





Waiting time = stime-qtime

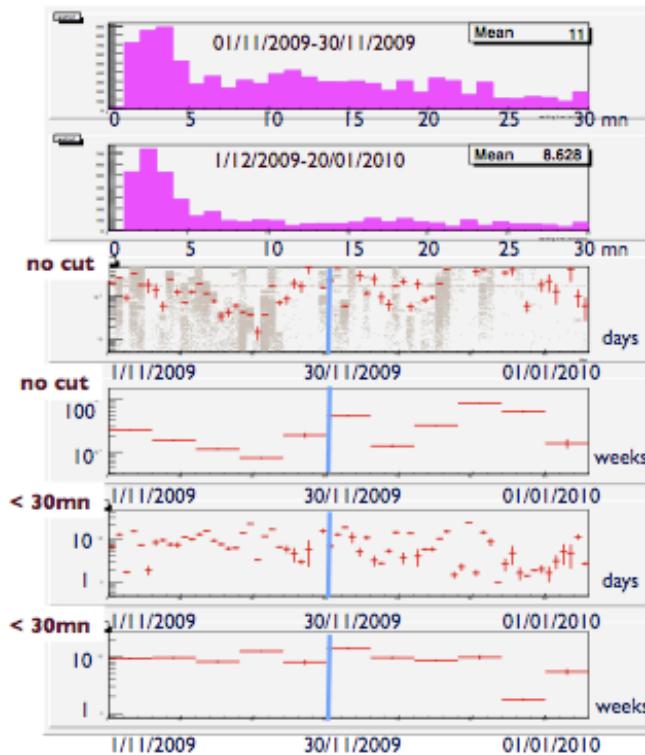
- Période du 10 au 29 janvier
- Jobs en majorité en queue G
- Local job ID retrouvé à partir de Dirac
- Pas d'archive de jobs plus vieux



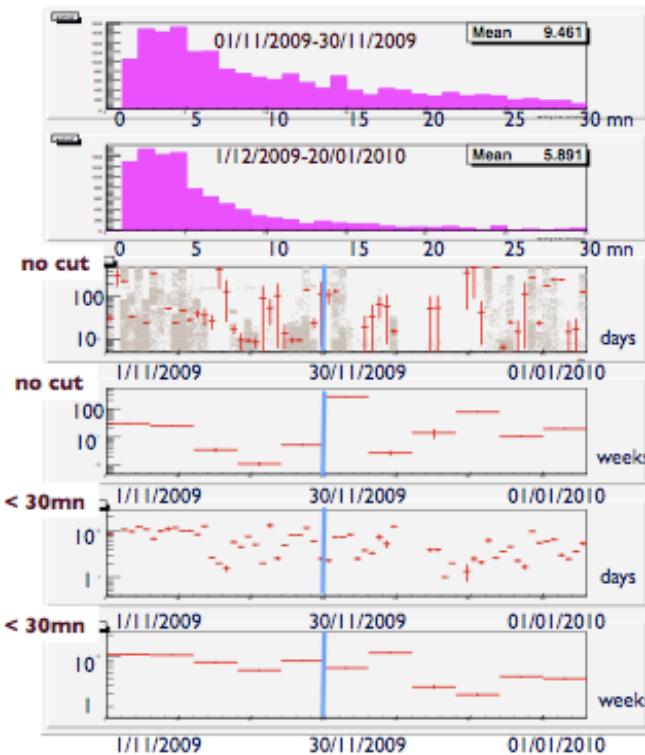


Class G waiting times for astrojobs

antares, auger, dchooz, edelweis, fermi

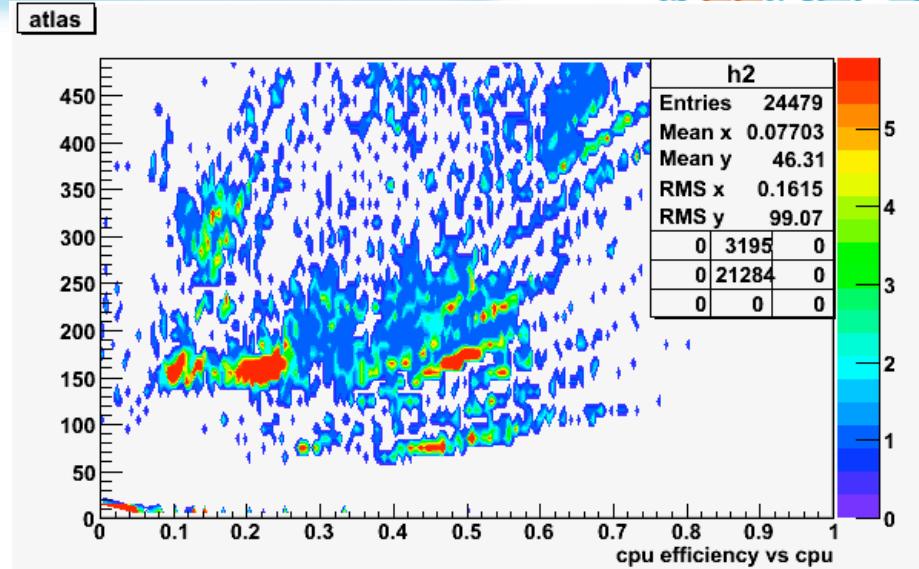
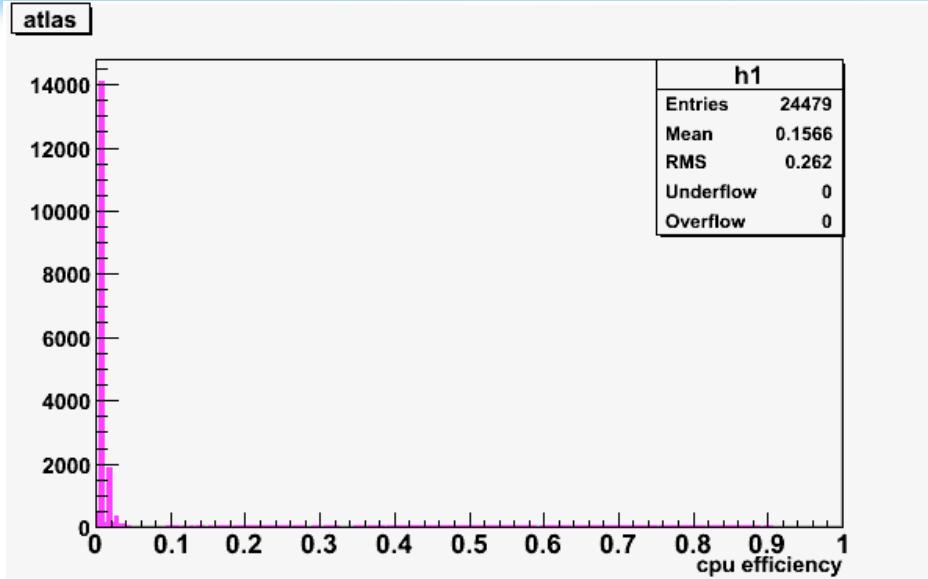


Isst, nemo, opera, planck, sdss





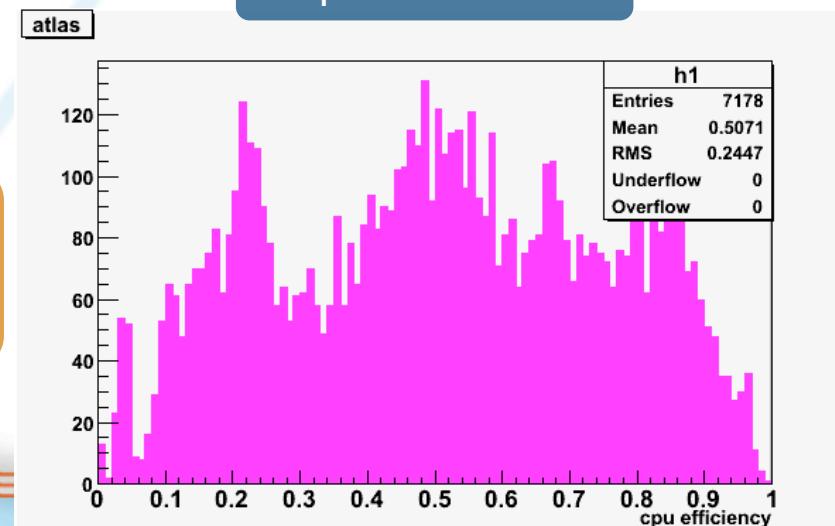
Efficacité CPU ATLAS (LA)



23/1-30/1

cputime > 40s

$Eff = cputime / (etime - stime)$



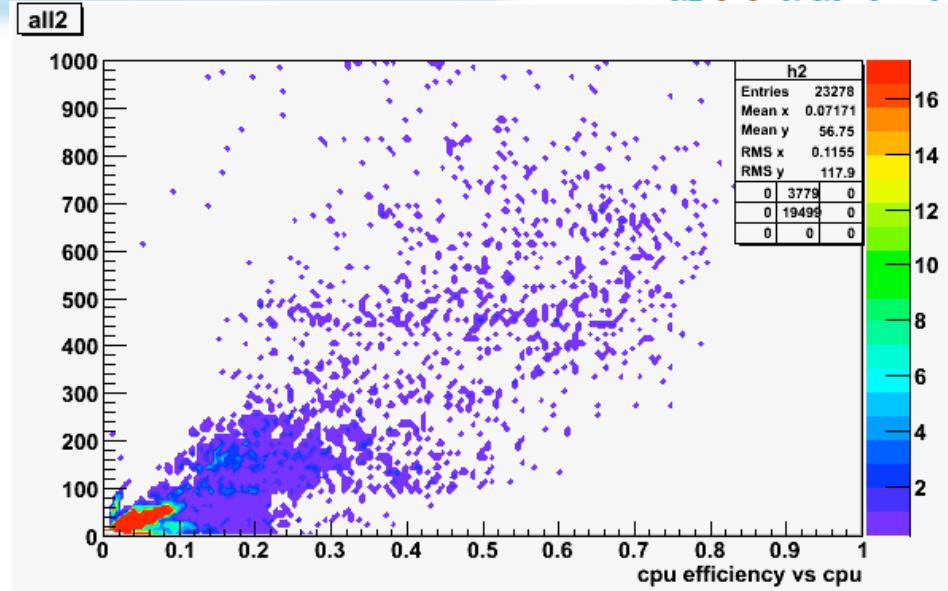
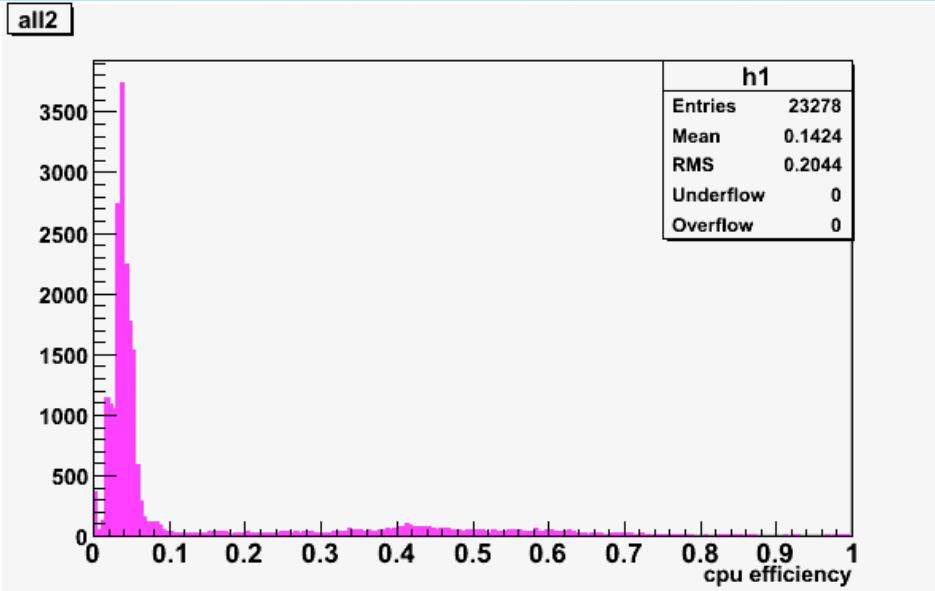
réunion T1-AF

11/2/2010

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Efficacité CPU LHCb (LA)

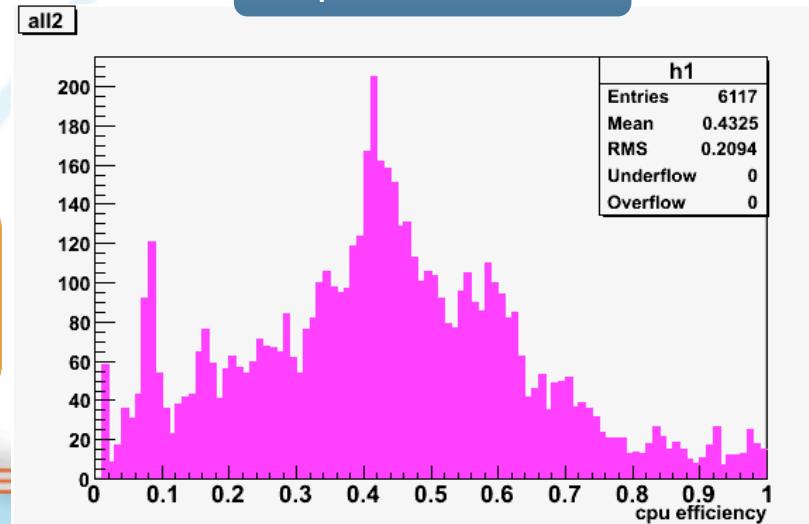


23/1-30/1

cputime > 40s

$Eff = cputime / (stime - qtime)$

réunion T1-AF



11/2/2010

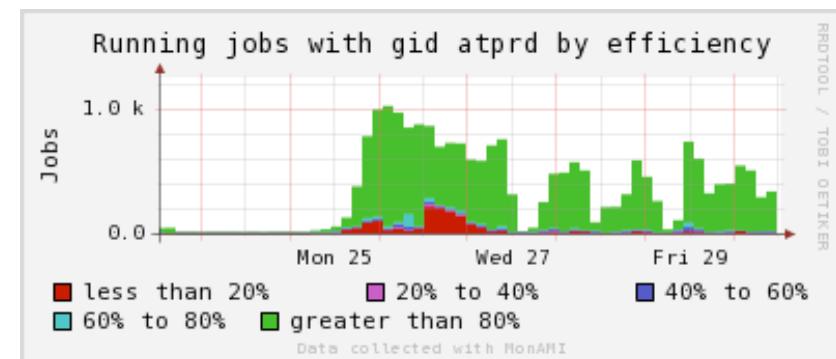
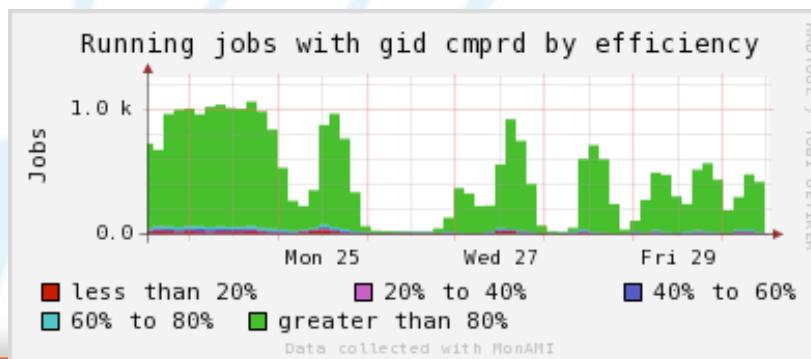
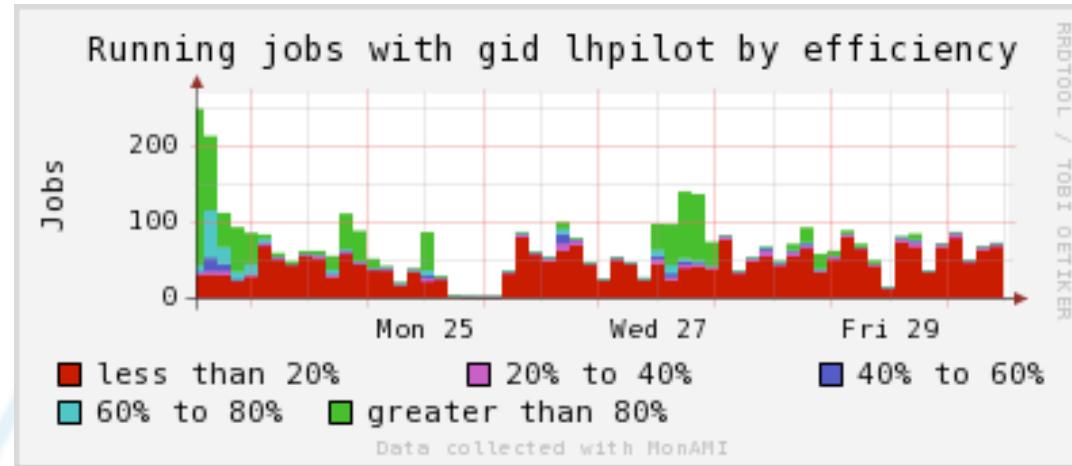
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Efficacité à PIC



■ Efficacité (cputime/walltime)





Efficacité



- Efficacité comparée dans RAL (cputime/walltime): les chiffres semblent particulièrement élevés!

Exp	CPUs	Walltime	Efficiency
Alice	1690	1874	90.15
Atlas	2583	2680	96.35
CMS	418	436	95.94
LHCb	91	237	38.54



Résumé



■ Temps d'entrées moyen:

- Temps d'entrée moyens de l'ordre de 2-3 minutes classes T ou G et en gros 70% des jobs passent en moins de 6 minutes.
- Longues queues dues à tous les incidents BQS.
- Toutes les expériences/ analyseurs n'utilisent pas une queue spécifique ==> impossible d'optimiser pour tout le monde.
- Le temps d'attente semblant correct, une autre source de ralentissement des jobs peut être le temps d'attente des jobs durant leur exécution (appelée ici efficacité)
- Le plus intéressant: comparaison avec les autres sites et tests internes à l'expérience.