PandaGrid Status

Radoslaw Karabowicz for the PandaGrid Group
GSI

PandaGrid Map

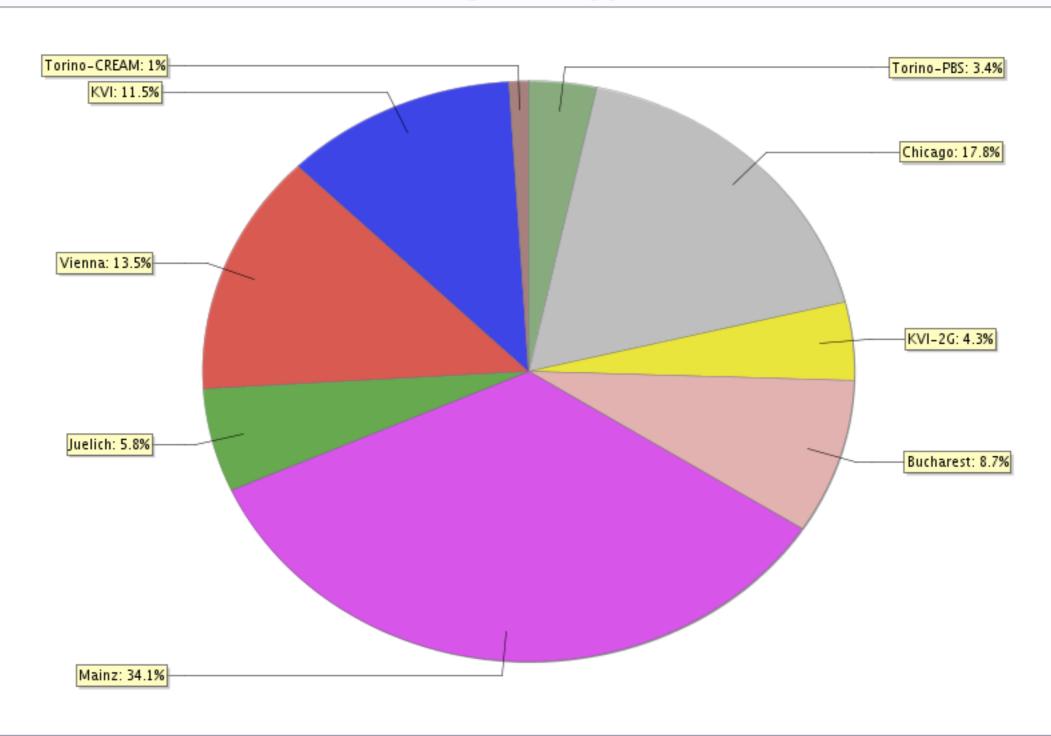


Panda Grid Sites (14 + central)

PANDA Grid Machines												
	VOBox		AliEn services									
Site	Machine	AliEn version	ML	CE	СМ	CMreport						
1. Bucharest	panda01.nipne.ro	v2-20.80										
2. Chicago	chopin.phys.northwestern.edu											
3. Dubna	lxpanda.jinr.ru	v2-20.80										
4. GridServerGSI	lxpandagrid03.gsi.de	v2-20.77		-								
5. GSI	lxgrid8.gsi.de		-	-	-	-						
6. GSI_USJR	61.9.87.219		-	-	-	-						
7. Juelich	ikp642.ikp.kfa-juelich.de	v2-20.88										
8. KVI	kvit14.kvi.nl	v2-20.80										
9. KVI-2G	panda.grid.rug.nl	v2-20.88										
10. Mainz	himster.him.uni-mainz.de	v2-20.88										
11. SUT	hpcc.sut.ac.th	v2-20.88										
12. Talca	200.91.25.152		-	-	-	-						
13. Torino-CREAM	pandabox.to.infn.it	v2-20.88										
14. Torino-PBS	pandafarm01.to.infn.it	v2-20.88										
15. Vienna	smigrid02.smi.oeaw.ac.at	v2-20.88										

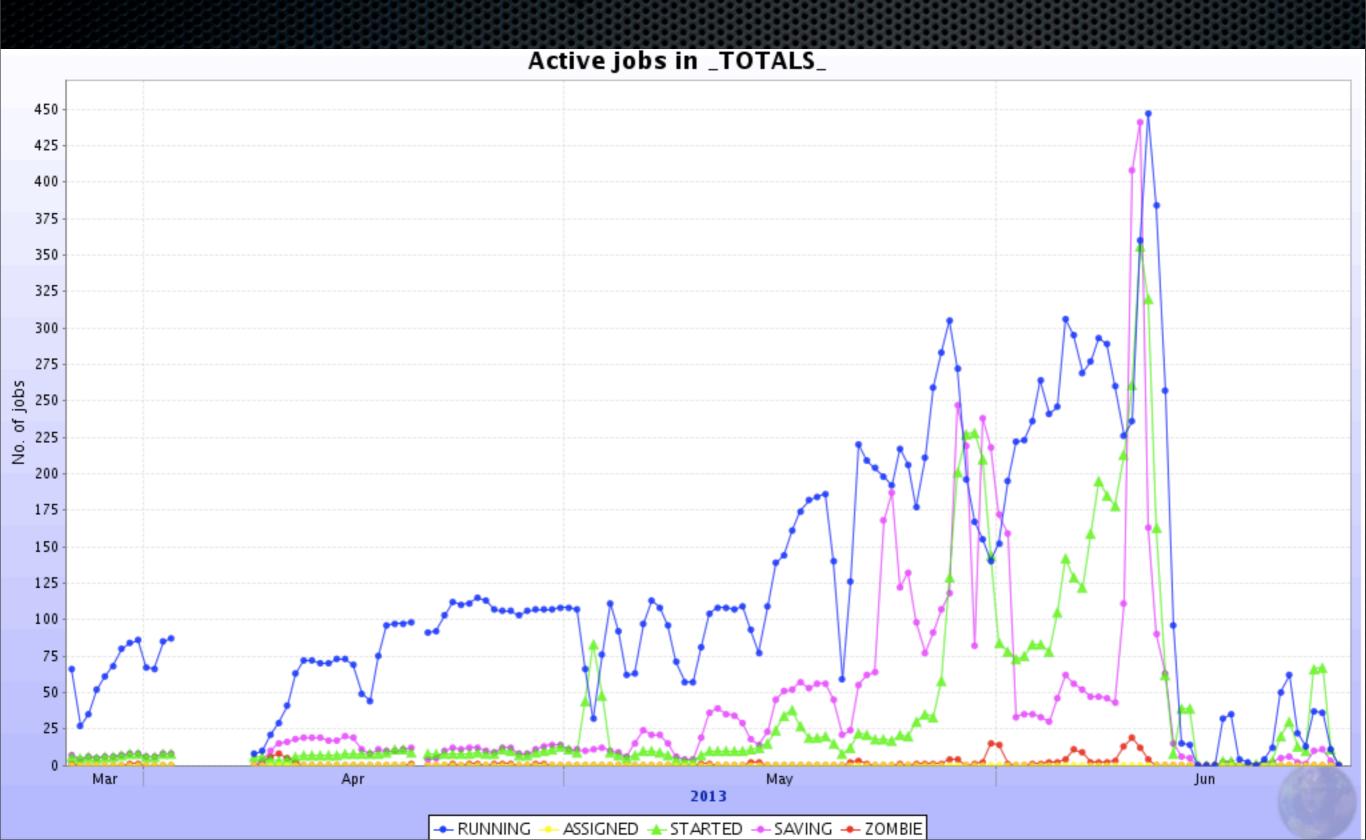
Jobs share, 9 active sites

Average running jobs



■ Torino-PBS © Chicago © KVI-2G © Bucharest © Mainz ® Juelich ® Vienna ® KVI ® Torino-CREAM

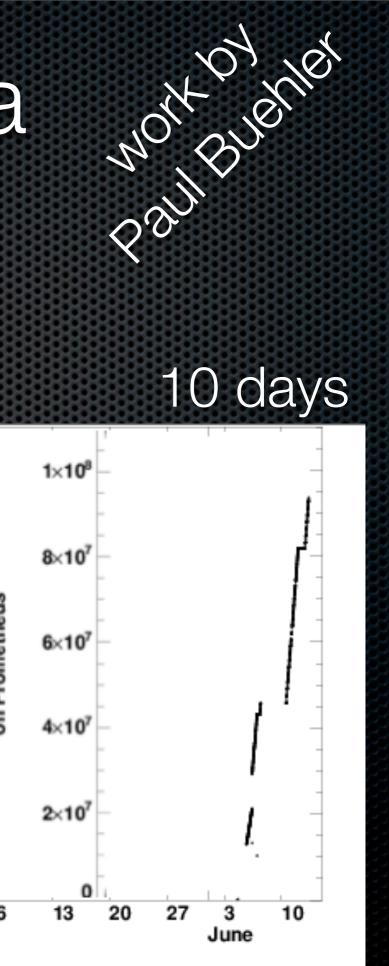
Concurrent jobs, >1000 max

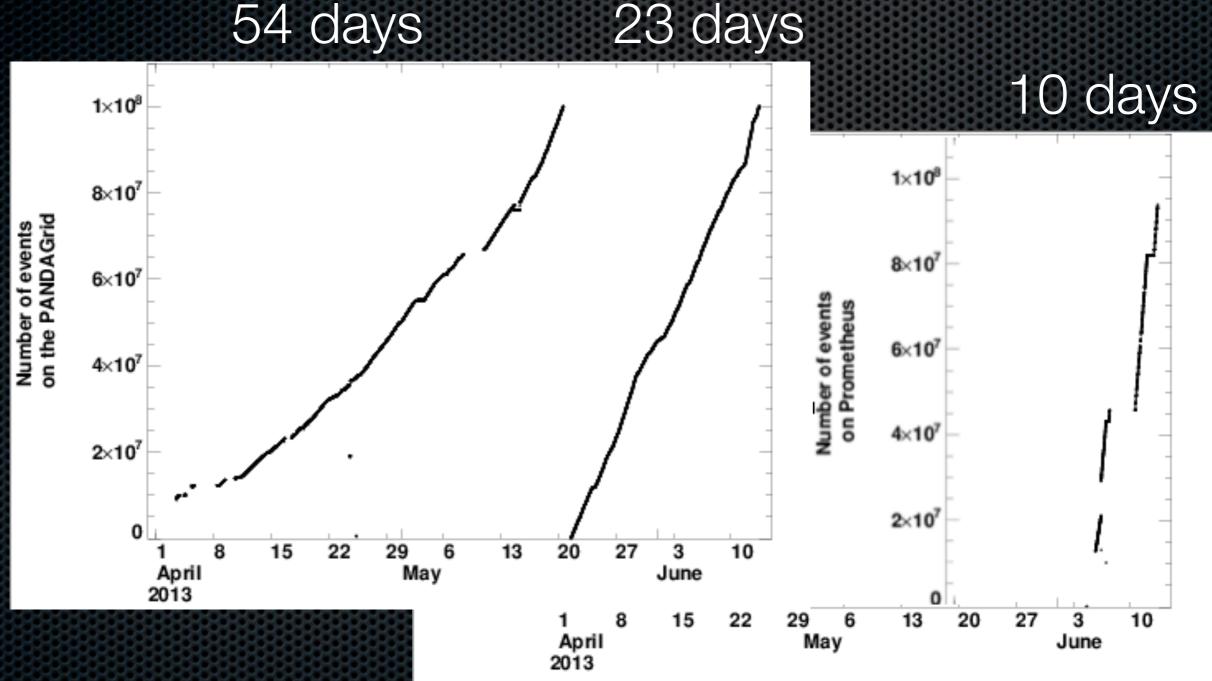


Recent massive data productions

- Requested by Alaa Dbeyssi and Tomasi Egle from Orsay, France
- Amount: 3 x 10^8 pbar+p->π+π- reactions at 3.3, 6.4, 1.7 GeV/c, and 3 x 10^6 pbar+p->e+e- reactions at 3.3, 6.4, 1.7 GeV/c.
- 2/3 analyzed on GRID, 1/3 on the GSI farms
 - the number of running jobs on the PandaGrid has increased from typically 100 at the beginning of the production to more than 800 at the end. The production speed at the end was ~6*10^6 events/day.
 - the number of simultaneously running jobs on the GSI batch farms was restricted to 200 (lcarus) and 2048 (Prometheus). The production speed during the last day on lcarus was ~1.5*10^6 events/day and on Prometheus it was ~1.2*10^7 events/day.

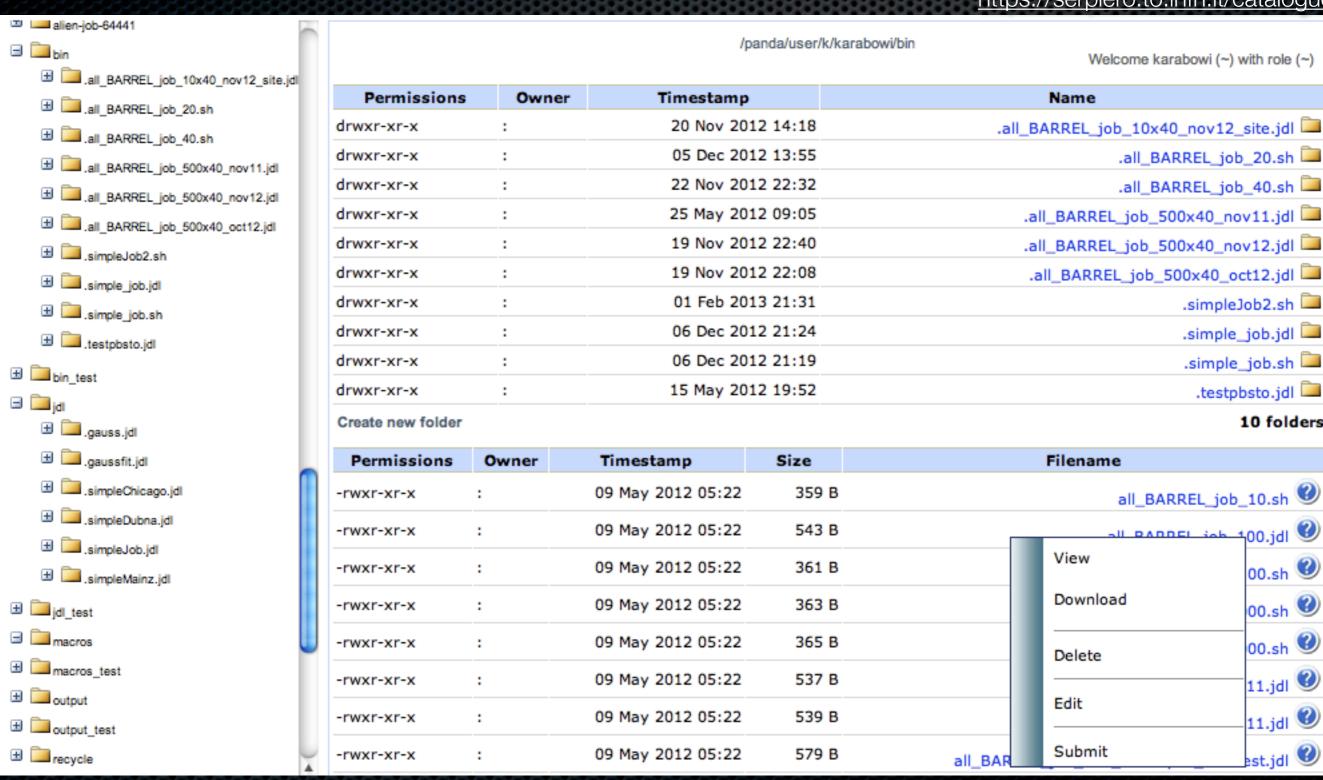
Recent massive data productions





new feature: webpage User Interface

https://serpiero.to.infn.it/catalogue



new feature: webpage User Interface

https://serpiero.to.infn.it/users/jobs.jsp

Welcome karabowi,

Jobs management : my own jobs | all my roles | all jobs

Show as chart or table.

Status					Active jobs			Error states								
Command	Owner	State	Total	Done	Running	Waiting	Started	Saving	Validation	Execution	InputBox	Inserting	Saving	V.script	VT Expired	Zombie
antonio.sh	spataro	SPLIT	14			14										
add_histograms.sh	esch	SPLIT	1													
go.sh	rosenbaum	SPLIT	10	4	1								5			
prod.sh	tomasi	DONE	1000	904					43	6			47			
run_ana_test.sh	zotti	DONE	3										3			
run_ana_test.sh	zotti	DONE	3										3			
run_ana_test.sh	zotti	DONE	3										3			
TOTAL: 7 jobs	:		1034	908	1	14			43	6			61			
	Command antonio.sh add_histograms.sh go.sh prod.sh run_ana_test.sh run_ana_test.sh run_ana_test.sh	Command Owner antonio.sh spataro add_histograms.sh esch go.sh rosenbaum prod.sh tomasi run_ana_test.sh zotti run_ana_test.sh zotti	Command Owner State antonio.sh spataro SPLIT add_histograms.sh esch SPLIT go.sh rosenbaum SPLIT prod.sh tomasi DONE run_ana_test.sh zotti DONE run_ana_test.sh zotti DONE run_ana_test.sh zotti DONE run_ana_test.sh zotti DONE	Command Owner State Total antonio.sh spataro SPLIT 14 add_histograms.sh esch SPLIT 1 go.sh rosenbaum SPLIT 10 prod.sh tomasi DONE 1000 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3	Command Owner State Total Done antonio.sh spataro SPLIT 14 add_histograms.sh esch SPLIT 1 go.sh rosenbaum SPLIT 10 4 prod.sh tomasi DONE 1000 904 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3	Command Owner State Total Done Running antonio.sh spataro SPLIT 14 add_histograms.sh esch SPLIT 1 go.sh rosenbaum SPLIT 10 4 1 prod.sh tomasi DONE 1000 904 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3	Command Owner State Total Done Running Waiting antonio.sh spataro SPLIT 14 14 add_histograms.sh esch SPLIT 1 1 go.sh rosenbaum SPLIT 10 4 1 prod.sh tomasi DONE 1000 904 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3	Command Owner State Total Done Running Waiting Started antonio.sh spataro SPLIT 14 14 add_histograms.sh esch SPLIT 1 1 go.sh rosenbaum SPLIT 10 4 1 prod.sh tomasi DONE 1000 904 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3	Command Owner State Total Done Running Waiting Started Saving antonio.sh spataro SPLIT 14	CommandOwnerStateTotalDoneRunningWaitingStartedSavingValidationantonio.shspataroSPLIT1414add_histograms.sheschSPLIT11go.shrosenbaumSPLIT1041prod.shtomasiDONE100090443run_ana_test.shzottiDONE3run_ana_test.shzottiDONE3run_ana_test.shzottiDONE3	Command Owner State Total Done Running Waiting Started Saving Validation Execution antonio.sh spataro SPLIT 14 14 add_histograms.sh esch SPLIT 1 15 go.sh rosenbaum SPLIT 10 4 11 prod.sh tomasi DONE 1000 904 43 6 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3	Command Owner State Total Done Running Waiting Started Saving Validation Execution InputBox antonio.sh spataro SPLIT 14 14 add_histograms.sh esch SPLIT 1 go.sh rosenbaum SPLIT 10 4 1 prod.sh tomasi DONE 1000 904 43 6 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3 run_ana_test.sh zotti DONE 3	Command Owner State Total Done Running Waiting Started Saving Validation Execution InputBox Inserting antonio.sh spataro SPLIT 14 14 14 14 14 14 14 14 14 14 14 14 14	CommandOwnerStateTotalDoneRunningWaitingStartedSavingValidationExecutionInputBoxInsertingSavingantonio.shspataroSPLIT141414add_histograms.sheschSPLIT11go.shrosenbaumSPLIT10415prod.shtomasiDONE100090443647run_ana_test.shzottiDONE333run_ana_test.shzottiDONE333run_ana_test.shzottiDONE333	Command Owner State Total Done Running Waiting Started Saving Validation Execution InputBox Inserting Saving V.script antonio.sh spataro SPLIT 14 14 add_histograms.sh esch SPLIT 1 15 go.sh rosenbaum SPLIT 10 4 1 15 prod.sh tomasi DONE 1000 904 43 6 47 run_ana_test.sh zotti DONE 3 3 run_ana_test.sh zotti DONE 3 3 run_ana_test.sh zotti DONE 3 3	Command Owner State Total Done Running Waiting Started Saving Validation Execution InputBox Inserting Saving V.script VT Expired antonio.sh spataro SPLIT 14 14 14 14 14 14 14 14 14 14 14 14 14

Panda Grid Activity

- New site:
 - Northwestern University, Evanston, USA
- Last PandaGrid Meeting:
 - 15th PandaGrid Workshop & 5th AliEn DevelopersWeek
 - 15-19 April 2013, at CERN, Switzerland (19 participants: 7 from CERN, 3 from GSI, 8 site admins)
- Next PandaGrid Meeting:
 - October/November, in Torino, Italy

News

- Pablo Saiz, the main developer of AliEn, resigned from further work on AliEn since April 19th, 2013
- His decision was triggered by the change of the ALICE Offline Coordinator (Predrag Buncic took the job of Federico Carminati in Autumn 2012)
- The future of AliEn in ALICE is completely unclear

AliEn in ALICE

- maintained for about 2 years (used for data analysis)
- could be exchanged by jAliEn (AliEn written in java, developed by Costin Grigoras)
- ALICE could switch to PanDA (Production ANd Distributed Analysis) tool developed for ATLAS, used meanwhile also by CMS for on-the-GRID computing
- however, the plan is to perform the main part (70%)
 of ALICE computing on the future farm of ~250000
 cores located in CERN

Summary

- Panda Grid is doing fine (but recently missing two important contributors: GSI and Dubna)
- the development of AliEn is stopped, its maintenance will be limited, and impossible by Panda alone
- collaboration of different PandaSites administrators is important and should be continued;
- other tools possible for job submission, control and monitoring on the Grid
- other experiments reduce the importance of the distributed computing and favor the central computing farm