

Status report on the PANDA Grid

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on behalf of PANDAgriders



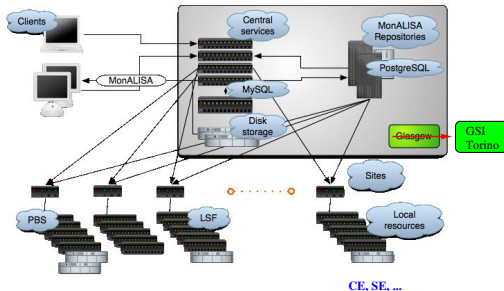
PANDA Grid has tradition

- first steps in 2005
- regular meetings (workshops) since 2006
- fairsoft/pandaroot assured to run on grid
- has proofed to be powerfull tool e.g.
 - ▶ STT versus TPC studies
 - ▶ Central tracker TDR
- organisational changes in spring 2012 lead to irregularities in operation

PANDA Grid structure

since 2012

- Head site in **GSI/Torino**







+

- new version of middle ware
- changes in database structure

Developments since Jan 2012

March 2012

Panda GRID CS @ GSI



- Ixpandagrid03 machine bought (last year), delivered (January), installed in GSI (mid February) with 16 CPUs, 24 GB RAM, 1 TB HDD
- CS installation status:
 - Lightweight Directory Access Protocol (LDAP)  -> GSI
 - MySQL DataBases (DB)  -> GSI, Torino
 - AliEn2 Central Services (CS)  -> GSI
 - PANDA GRID MonaLisa (ML)  Jülich

@ Radoslaw Karabowicz

Developments since Jan 2012

September 2012

Panda GRID @ GSI

- Central Services installation status after the May Panda GRID meeting:
 - Lightweight Directory Access Protocol (LDAP) ✓ -> GSI
 - MySQL DataBases (DB) ✓ -> GSI, Torino
 - AliEn2 Central Services (CS) ✓ -> GSI
 - PANDA GRID MonaLisa (ML)  ->  Mich / Torino
- Recent changes of AliEn required direct interventions of the CERN people to our MySQL and our machine settings - still working to bring the Panda GRID back

@ Radoslaw Karabowicz

Developments since Jan 2012

December 2012

- all central services are operational again, including MonaLisa
- latest fairsoft/pandaroot versions made available on grid
- PANDA Grid workshop took place from 19.-23.11.2012
- Campaign for forward tracking studies (FTR12)

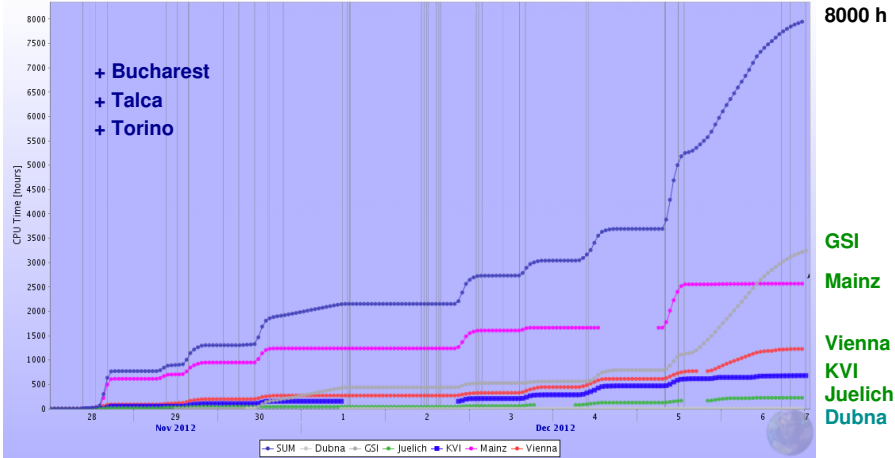
(see <http://panda-wiki.gsi.de/cgi-bin/view/Computing/FTR12>)

Results from FTR12

- jobs including sim, digi, reco, pid
- $\bar{p}p \rightarrow \pi^+\pi^-\pi^+\pi^-$
- successive reconstruction of invariant mass
- 6000 jobs run, 5 Mio events
- 2.3 Mio events analyzed
- rest failed due to several reasons:
 - ▶ not responding MySQL server -> jobs remain in WAITING **solved!**
 - ▶ data properly produced but can not be retrieved by ana-job (25 %)
 - ▶ pandaroot failed (< 10 %)
 - ▶ diverse site problems

Results from FTR12

Total CPU time for PANDA jobs



Users for PANDAGrid

- needs continued optimization ...
- The PANDAGrid is ready to be used again
- get (re-)started with ...

PandaGrid tutorial on
Wednesday 12.12.12, 14:00-18:30
SB3 1.239a