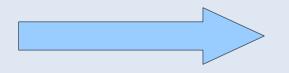


NAF for LHCb status report



- Complementary to large-scale batch processing
- Provides interactive nodes
- Effective & short analysis cycle
- Debugging of (analysis) code
- Improve collaborative development of analyses



NAF important asset for physics output of German LHCb groups



Content



- NAF for LHCb concept
- Typical LHCb analysis schema
- Status
- Requests



Difference between GRID and NAF for LHCb



GRID

- Batch environment
- Large scale tasks
- Well defined and debugged jobs
- Currently only official software

NAF

- Interactive and batch environment
- Small to middle tasks
- Development and debugging
- User controllable software



Responsibilities

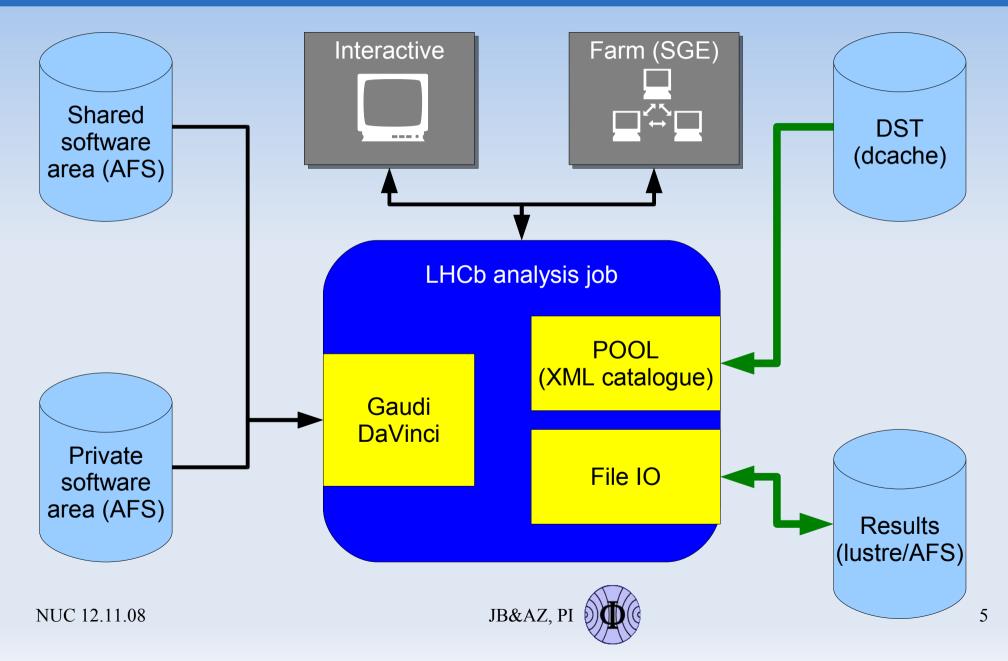


- All system hardware and software: NAF
- User support: us
- Data and software management: users



Typical LHCb analysis job







Current status



Web Portal for registration open since Oct. 20th

Since then:

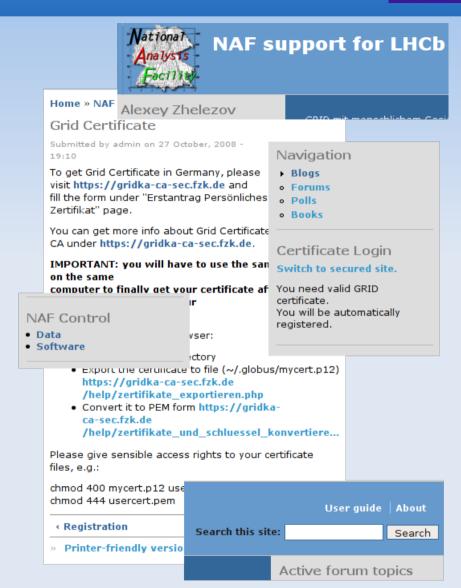
- 11 registered users, from
- 3 German LHCb groups
- Environment is tested with typical LHCb analysis jobs (interactive and in batch mode)
- Data and software management tools are online and working



naf-lhcb.physi.uni-heidelberg.de



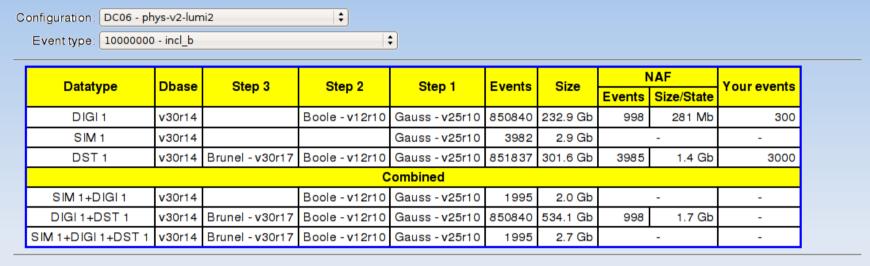
- Automatic login
- Simplified registration
- Documentation
- Forum and blogs
- Access to management tools





Data Management





Request/lock/unlock:

 DIGI 1#v30r14#DIGI 1#Boole - v12r10#SIM 1#Gauss - v25r10
 \$ 1000
 Request/Lock
 Get .opts
 Get .xml

- Request replication of LHCb data from Bookkeeping to NAF SE
- POOL XML catalogues and option files generation (ready to use on NAF)

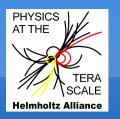


Software management



- Direct selection of required software from all currently available
- Transparent installation into shared area

Please select the package: DAVINCI \$ User: Alexey Zhelezov					
DAVINCI					
Version	Platform	Status			
	slc4_ia32_gcc34_dbg	Request to install			
v20r3	slc4_ia32_gcc34	Request to install			
V2013	slc4_amd64_gcc34_dbg	Request to install			
	slc4_amd64_gcc34	Installed			
	slc4_ia32_gcc34_dbg	Request to install			
v20r2	slc4_ia32_gcc34	Request to install			
V2012	slc4_amd64_gcc34_dbg	Request to install			
	slc4_amd64_gcc34	Request to install			
	slc4_ia32_gcc34_dbg	Request to install			
v20r1	slc4_ia32_gcc34	Request to install			
V2011	slc4_amd64_gcc34_dbg	Request to install			
	slc4_amd64_gcc34	Request to install			
	slc4_ia32_gcc34_dbg	Request to install			
v20r0	slc4_ia32_gcc34	Request to install			
V 2010	slc4_amd64_gcc34_dbg	Request to install			
	slc4_amd64_gcc34	Installed			
	slc4_ia32_gcc34_dbg	Request to install			
1/1 Ord 4	slc4_ia32_gcc34	Request to install			



Local integration (Physicalisches Institut, HD)



- The same data and software management interface
- Naf-login and naf-afs scripts
- The same login environment (difference in software path only)



Wishes



- Up to date status information:
 - What problems are already known?
 - What changes are planned?
- Accounting
 - Which resources we have used?
 - (for admin) Detailed information about user's activity (in batch system).



Resources request



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Category	2008	2009	2010
Storage (TB)			
User space	2	4	4
LHCb software	0.5	1	1
data space(dst)	10	50	200
ntuples	2	50	100



Conclusions



- LHCb NAF on it's way
- First users employ system
- Web portal used for data & software download
- Requirements document under development