Bucharest ATLAS Analysis Facility BAAF

Mihai Ciubancan

- **BAAF** consist of a non-homogeneous PROOF cluster
- **BAAF** computing cluster driven by Condor
- **BAAF** use CernVM File System
- **BAAF** dedicated to members of Bucharest ATLAS group

Hardware overview:

- 1 Masternode with 8 cores and 7TB storage
- 5 Slavenodes 3 with 8 cores
 - 2 with 4 cores

Total of 40 cores

Network – 1Gbps in a private network

Software overview

Masternode – it has root v5.26.00e +pythia6, pythia8

- installed and configured Delphes-1.9
- installed and configured HepMC
- installed and configured Athena 16.0.2
 and 16.6.4 via pacman-3.29
- installed and configure Athena 17.0.4
 via CVMFS

Software overview

- Masternode access to the latest Athena and root versions via CVMFS
 - configured as glite-UI with the dq2-tools
 - configured as masternode of the Proof cluster(for analysis)
 - manager of the Condor cluster; submitting and scheduling jobs(for simulations)
 - configured to store data via xrootd

Software overview:

Slavenodes – all of the nodes are configured with root-v5.26.00e +pythia6, pythia8, Delphes and HepMC

Slavenodes – configured as executant of Condor jobs

Slavenodes – are connected via a private network to baaf.nipne.ro, masternode; only the masternode can be accessed from Internet CVMFS – is a network file system based on HTTP and optimized to deliver experiment software in a fast, scalable, and reliable way; files and file metadata are cached and downloaded on demand

CVMFS at BAAF – once the users are logged in baaf.nipne.ro they are able to access and use the ATLAS software

> the data are accessed via a squid (proxy) server installed locally

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Connection to baaf.nipne.ro closed. mihai@mihai-Lenovo-V370:~\$ ssh baaf.nipne.ro mihai@baaf.nipne.ro's password: Last login: Sun Dec 18 11:48:17 2011 from 92.80.76.101 ...Type localSetupDQ2Client to use DQ2 Client ...Type localSetupGcc to use alternate gcc ...Type localSetupPacman to use Pacman ... Type localSetupPandaClient to use Panda Client ...Type localSetupROOT to setup (standalone) ROOT ...Type localSetupPoD to setup Proof-on-DemandType showVersions to show versions of installed software ... Type asetup [--help] to setup a release ...Type changeASetup [--help] to change asetup configuration ...Type diagnostics for diagnostic tools ...Type helpMe for help [mihai@baaf ~]\$

mihai@baaf:~

root@baaf:~ 🖂 📼 🜒) 12:01 PM 👤 Mihai 🔱 # Don't edit here. Create /etc/cvmfs/default.local. # As a rule of thumb, overwrite only parameters you find in here. # If you look for any other parameter, check /etc/cvmfs/domain.d/<your domain>.(conf|local) # and /etc/cvmfs/config.d/<your repository>.(conf|local) # Parameter files are sourced in the following order /etc/cvmfs/default.conf /etc/cvmfs/default.local /etc/cvmfs/domain.d/<your_domain>.conf /etc/cvmfs/domain.d/<your_domain>.local /etc/cvmfs/config.d/<your_repository>.conf /etc/cvmfs/config.d/<your_repository>.local # Use cvmfs_config showconfig to get the effective parameters. CVMFS_REPOSITORIES=atlas.cern.ch,atlas-condb.cern.ch CVMFS HTTP PROXY="http://atrogr008.nipne.ro:3128" #CVMFS_CACHE_BASE=/var/cache/cvmfs2 CVMFS CACHE BASE=/data/cvmfs2 CVMFS_QUOTA_LIMIT=30000 CVMFS_DEFAULT_DOMAIN=cern.ch CVMFS_TIMEOUT=5 CVMFS TIMEOUT DIRECT=10 CVMFS_STRICT_MOUNT=yes CVMFS_FORCE_SIGNING=yes CVMFS_NFILES=32768 # Don't touch the following values unless you're absolutely # sure what you do. Don't copy them to default.local either. if ["x\$CVMFS_BASE_ENV" == "x"]; then readonly CVMFS_USER=cvmfs readonly CVMFS_MOUNT_DIR=/cvmfs readonly CVMFS MOUNT DIR=/data/cvmfs readonly CVMFS OPTIONS=allow other, entry timeout=60, attr timeout=60, negative timeout=60, use ino readonly CVMFS_BASE_ENV=1 fi

Installing software via CVMFS

- Once the cvmfs is working the software is installed via Tier3SW package
- Running updateManageTier3SW.sh script will install ATLASLocalRootBase directory
- To install or remove a version of Athena is use the createConfigurationFiles.sh script which is generating a few files containing the lists of software which is installed or to be installed/removed
- The last step in installation is running the following command: ./parseConfigFiles.sh --mirror=am-CERN –doRun

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TopPhys-16.0.3.3.2-i686-slc5-gcc43-opt
TopPhys-16.0.3.3.3-i686-slc5-gcc43-opt
TopPhys-16.0.3.3.4-i686-slc5-gcc43-opt
TopPhys-16.0.3.8.1-i686-slc5-gcc43-opt
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TopPhys-16.6.2.6.1-i686-slc5-gcc43-opt
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TrigMC-16.6.7.3.1-i686-slc5-gcc43-opt
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TrigMC-17.0.3.4.1-i686-slc5-gcc43-opt
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TrigMC-17.0.4.6.1-i686-slc5-gcc43-opt
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localDir
-> i686_slc5_gcc43_opt
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-> AtlasOffline 17.0.4
DBRelease versions:
10.0.1
10.2.1
10.2.1
10.4.1
10.4.2
10.5.1
10.5.1
10.5.1
10.0.1

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Data analysis with Proof:

- after creating the chain start the Proof: TProof *proof = Tproof::Open ("baaf.nipne.ro") chain->SetProof()
- to analyze a tree create a skeleton:
 tree->MakeSelector("Analyzer")
- edit the generated files Analyzer.h and Analyzer.C and process the data:

chain->Process("Analyzer.C")

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Running simulations via Condor:

– runnig jobs via condor using condor_submit command: condor_submit pythia6.job

- the submit file consists of a set of commands:

Executable = run_pythia

- Output = main45.out
- Error = main45.err
- Log = main45.log

```
should_transfer_files = YES
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when_to_transfer_output = ON_EXIT
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transfer_input_files = main45.exe, libPythia6.so
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Queue

10/25/2012

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10/25/2012

Mihai Ciubancan, IFIN-HH

Monitoring the cluster with ganglia:



Future plans:

- To become a Tier3g facility
 - has Grid connectivity able to get ATLAS data from the Grid
 - has no ability to accept jobs from outside itself
 - will be able to analyze ATLAS data-sets(AODs, DPDs, Raw data)

THANK YOU!

10/25/2012

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