AGATA DAQ EVO meeting   May 27th, 2011

Presents : Y. Aubert, D. Bazzacco, N. Dosme, X. Grave, M. Gulmini, A. Korichi, E. Legay, P. Molini, S. Pietri, H. Schaffner, O. Stezowski, Ch. Theisen

1.Status reports on the DAQ

Status report from Legnaro (Dino and Michele)
The 5th triple cluster has been successfully mounted in the array and is working well!
However :

Still have a synchronisation problem with the digitizers to be solved
Action on Eric Legay

A network problem happened due to hardware failure in the fibre/copper converter which has been replaced by Luciano Berti.
This is one of the six converters used for the three fibbers connecting the main room with the storage room.
The trouble shooting took quite a while, and the network strange behaviour (unstable) is not completely understood yet.
Problem with Narval 12 happened and Legnaro people need assistance and indication for how to replace the machine on site
Action on Y. Aubert

2.GSI meeting agenda
The pre-agenda as defined via e-mails has been agreed and the final is as follow :
After a short presentation describing the DAQ at Legnaro we can start the discussion focusing on :
> Software and data flow
> Hardware and Infrastructure

1-DAQ installation at GSI
Number of rooms dedicated to the DAQ and Location from the FEE and Agata users

2-Gateway access
Rules at GSI for shh, VPN, elog ... IP's SMTP servers for sending e-mail

3-Data storage and Data Analysis (Disk and Grid)

4-Infrastructure resources provided by GSI

5-Installation schedule and milestones

3.ADF frames and Agata software User's guide document

The svn version of ADF has been updated with a new definition of PSA and Tracked frames (Version 0,0). Compilation and tests have been performed by Olivier without any problem.
The whole package has been sent to Legnaro (Dino) and tests are still on going so that we can move to the new definition on September.

The document (Agata Software User's Guide) has been updated and sent to the working group for comments and suggestions.

Action on all: send comments to Olivier to complete the document

On 5/31/11 11:21 AM, Dino Bazzacco wrote:
>   Dear all,
>   Yesterday we took for the first time data with the full Demonstrator with 5 Triple
>   cluster. We still did it with cssh and direct readout but the acquisition with narval and
>   cracow will follow soon.
>   I think are ready for the next experiments but I would like to list some of the open
>   issues that we should try to solve before starting on June 8.
>
>   1- some (3) ATCA carriers have problems to restart after a power cycle; Damiano will
>   try to fix them, in particular carr27 (the slave of 5R).
>
>   2- on a few readout machines we need to disconnect the power cord after restarting
>   the ATCA electronics: narval08(Linco1), narval12(linco2) are the worst cases but
>   sometimes we have to do it also on narval04, narval05 and narval16. As said in the
>   last EVO we plan to bring narval12 to Padova for a deeper investigation of the
>   problem. We need help to do the action before the next experiment.
>   Question: is it possible to move (or repeat) the kvm close to the visu3 control
>   terminal?. A remote login would also be sufficient but I don't know if this is possible.
>
>   3- the de-synchronisation of data from the ditigizers of 5R and 5B, which I mentioned
>   during the EVO, turned out to be caused by badly inserted optical connectors. Now
>   the system is stable and there is less urgency to have the global slow control
>   automatically sending the re-synch command. However it would be better to have
>   this extra level in action soon because there are also other channels which, from
>   time to time, lose sync.
>
>   4- the data transfer to the agatadisks is now limited to a total of ~65 MB/s,
>   corresponding to a maximum event rate to ~1 kevents/detector.
>   To improve on this side the odd-numbered narval nodes were mounting /agatadisks
>   on narvalds1 while the even-numbered ones were using narvalds2.
>   At the moment all of them see agatadisks on narvalds1.
>   After updating narvalds1 to squeeze it should be checked if it is possible to distribute
>   the mounting points again, maybe sharing also with narvalds3.
>
>   5- agatadisk is almost full: this is a recurrent problem which we normally solve by

deleting (archived) data just-before or during the experiments. If we continue storing the raw data (as, in my opinion, we should do for long time) there is a need to increase (double?) the size of agatadisks.

Best regards

Dino