
---- PSNC - JIVE meeting, 1-2 September 2008 -----

- 1). WFM presentation
 - prototype now working and demonstrated
 - added more robust data entry forms, removed "globe" visualization
- 2). Vlbi Broker presentation
 - how to merge correlated data
 - JIVE to merge data
 - what happens with unfinished/ waiting tasks ?
 - ? JIVE to create exit status messages (tcy does not recall decision)
- 3). Networking part (Trocha, Dolata)
 - a).
 - introduction about monitoring tools
 - presentation of perfsonaras possible networking solution in fabric
 - monitoring based on:
 - bandwidth utilization
 - packet loss
 - delay
 - prototype system to be expanded:
 - install measurement points:
 - Poznan (curently in place)
 - JIVE (PSNC to work with Boven@JIVE)
 - Torun (PSNC to contact Torun)
 - b). Implementation in Fabric
 - design presentation
 - requirements
 - current status

Remarks (Paul)

 - net in jive is point to point between RT and Jive
 - very little to do in terms of measuring bandwidth, etc
 - they cannot agree on testing bandwidth every hour

 - measurements will be run based on WFM requests
 - what we want to monitor is outside Jive (TN <-> Grid)
- 3). Jive presentations (Mark)
 - introduction of software correlator
 - design description
 - changes
 - output data has changed (some meta data added)
 - problems with delay table
 - computation of delay table is not so much time consuming
 - current status

 - Different projects which overlaps
 - Scarie
 - AutoBAHN
 - bandwidth on demand service - across domains
 - demo on the supercomputing

DISCUSSION:

Software Correlator

- problems with delay table calculation
 - solution : take start and end time from CCF
 - take delay code out from the correlator
- what data format should be used to store data in data archive
- how can we bridge the gap between different programming languages
- user accounts ?
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Network discussion:

- how we can increase hardware resources
- jive and perfsonar -> talk to Paul
- jive will install perfsonar with support of networking people
 - deadline: asap
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- there will be one machine where TN, vex2ccf and gridFtp will be installed
- Jive -> 6 node cluster
- hw correlator has some limits in terms of bandwidth
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WFM discussion

1. Problems with files on the TN nodes
 - how we can specified file paths
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- a). ip address and port
local file name
- b). possibility of adding new resources

- configuration files can be moved to one central location
- location of TR node can be changed
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- TN from WFM design view (PSNC should add:)
 - Ip address
 - port number
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Data merging:

- central service at jive
- when data is ready notification should be sent to central jive service
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Error handling:

- VLBI Broker should handle correlator errors (how ? -> open issues)

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===== DAY 2
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Discussion:

- 1). Problems with soap
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- 2). TN
 - when TN will be ready
 - check whether client code in python can be configured using some features
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- 3). Starting the correlator
 - changes in CCF
 - change start and end time
 - fill in the input files (data sources)
 - fill in the output files
 - delay model - we can leave it as it is
 - two arguments of correlator 1. ccf file 2. vex file
 - if there is an error, std out and err should be sent to admin
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- 4). Check the vex ccf service
- 5). CCF -> channels are missing, they can be changed
- 6). changing services port to 8080

Future steps:

- 1). Run the prerecorded data correlation (non real time case)
- 2). Use mark5 simulator and test RT real time scenario
- 3). The last step would be to use real RT

Final presentation:

- Charles needs to think it over
- will focus on communications first
- mark will test the correlator (15th of Sep) - reservation

Final goal

- correlate 4 stations, data rate at 128Mb/s
- final deadline -> before summertime, April, workshop in June
- at least 2 clusters for correlation, changes in VLBI Broker required

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===== TO DO LIST
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PSNC:

- 1). Update of CCF file, update of CCF editor
- 2). Update of JobInfo structure: we should add gridFtp location
- 3). Removing data chunks from gridFTP server
- 4). Further development of WFM and VLBI Broker
- 5). Installing of perfSONAR in Poznan, Torun
- 6). Vlbi Broker will store experiments in database
 - it will be responsible for notifying TN

JIVE:

- 1). Implementation of Correlated Data Service:
 - responsible for downloading correlated data chunks
 - responsible for removing correlated data chunks from gridFTP server
 - PSNC will be responsible for designing an interface and creating a WSDL file for the service
- 2). Correlator should remove data from the environment after correlation
- 3). Changes in TN (to be adopted to new wsdl)
- 4). Installing perfSONAR at Jive (support from PSNC is available)

Open issues (to be discussed):

- what happens to stalled tasks, what is a timeout
 - ====> not likely to happen. We should check the exit code
- when TN should be informed about new experiment (after submission or just before experiment start - who will be responsible for storing submitted experiments in that case)
 - ====> vlbi broker is responsible for storing experiments and sending info to TN just before the experiment start

Deadline:

- 6.10 - test date
- the other attempt - the beginning of December
- preparing second cluster
- P29 document: short text description, source code
- Networking part in WFM - December - prototype
 - end of January
 - (send paragraph of text saying what will be ready at the end of December
 - what will be done at the end of January
 - stating that it will be a prototype version
 - (write it as an email)
 - 3 paragraphs:
 1. what we agreed to have in deliverable
 2. December - fake data
 3. January - perfsonar datadeadline -> asap

Teleconferences:

- 23.10.2008 14.00 (skype or evo)
- the second one in December