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Status

Isolated two hardware problems

→ b0csl26 memory removed and sent back to ASA
Have not gotten the replacement part

→ Possible SATABeast 2 Controller 1 problem
Contacted NEXSAN about controller problem. Need to reproduce it and send them the event log.

Ran extensive Disk IO tests on b0csl26-b0csl29 for a week without problems...

Have not been able to reproduce the problem

Using new Fibre Channel Switch, cables, and SFP transceivers

System Configuration

Met with Joe Boyd to go over some of the system configuration issues

Hope to have them done prior to the review

→ *Install/configure cyclades terminal server*
→ *Redundant Fibre channel switch configuration*
→ *Install RAID controller and boot from RAID (receivers nodes)*
→ *Finalize/Freeze system configuration*
→ *Optimize/tweak server SATABeast configuration*
→ *Review support issues*
→ *Document system recovery procedure*

Will have to schedule time with the system in order to work through some of this configuration issues...

Integration Testing

Rich made some improvements to logger node reliability.

Continue integration tests while focusing on *long term stability* and *monitoring*.

→ Use full system (8 logger nodes)
→ RTServer disconnect
→ Output log files in designated area
→ Run with dummy consumer
→ Develop monitoring

Done with b0csl26-29 for now - so we can use all 8 logger nodes...

Current Issues

Use sequential root

→ *If there are issues with this we need to know...*

→ *What is the impact on the disk IO speed*

Make sure that L3Sender can run without stopping

→ *Continue integration tests and identify problems*

Redirect output when Logger is not responding

Logger process not responding

→ *Cleanup and restart*

Logger Node not responding

→ *Restart on different logger node*

Get message from logger to receiver and send out status message

Monitoring

- Specify Web page layout
- Update CSLMon
- Define text status message from Logger
  - display heartbeat
- CSLMon reads text message from Logger
- Modify status message to use DAQMsg
- CSLMon send error message
- CSLMon updates web status page
- Error message from cron job

Readiness Review

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CSL Upgrade Readiness Review Agenda for 29 Aug 2006
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1) Overview of project
   - Status of hardware
   - Status of software
   - Personnel and task assignments

2) Readiness for integration into datataking: B0 end
   - Hardware and software
   - Proponents should address:
     > Can the system run at the 80 MB/sec rate without
       component failure for extended periods of time?
     > What are the failures modes?
       + How often do they occur?
       + What is being done to address it?
     > Monitoring software status
```

3) Readiness for integration into datataking: Feynman (SAM/tape logging) end

- Hardware and software
- Proponents should address:
  > Can the system run at the 80 MB/sec rate without component failure for extended periods of time?
  > What are the failures modes?
    + How often do they occur?
    + What is being done to address it?
  > Monitoring software status

4) Commissioning and data-taking

- Plans for between- and end-of-store commissioning
  > Physics data CSL
  > Calibration CSL
- Pager coverage

5) Long term plans

- Pager coverage: B0 and Feynman/tape
  - > Control room operations protocols
  - > Documentation for shift crews
- B0 hardware maintenance plans
- B0 receiver and logger software maintenance
  - > System administration: 24/7, 8/5 coverage, backups etc
  - > Codebase maintenance
- Feynman tape logger systems
  - > CD hardware maintenance, day-to-day operations
  - > Codebase maintenance

...startup goal would be to have the new system being as good in terms of throughput and reliability. With this in mind we should have a short presentation reminding us of the performance of the old CSL. How many crashes do we have with the old system, how long does it take to recover from a software/hardware problem and what is the current throughput limit (25MB/s)?

Planning/Status Meetings

As we get closer to the deadline it would be useful to have more regular planning meetings in which we can go over current problems and report progress made.

What I suggest is that we try to meet
Monday 10am
Wednesday 16:60
Friday 10am

Let me know of your availability...

Also... given the short time scale for all of this to com together
- I hope that people involved can give priority to this...