CGNS Telecon Minutes

Tuesday, 05 April 2016, 10:00am Eastern Time

1. The meeting was called to order by ZJ Wang at 10:05am eastern time. Attendees are listed in Appendix A.

2. Mar 1, 2016 minutes were approved as published on the website.

3. Steering committee issues:
   a. Committee members (telecon last date attended):
      i. Airbus 12/15
      ii. ANSYS 12/15
      iii. Boeing 3/16
      iv. Colo State 4/16
      v. GE 10/15
      vi. HDF 4/16
      vii. IL 5/15
      viii. NASA LRC 4/16
      ix. ONERA 4/16
      x. Pointwise 4/16
      xi. P&W 4/16
      xii. Tecplot 12/14
      xiii. TTC 12/14
      xiv. U Colo 4/16
      xv. U Kansas 4/16
   b. All steering committee members are still encouraged to get atlassian accounts, so they can monitor CGNS software bugs & issues. Do so at: https://cgnsorg.atlassian.net/admin/users/signup. The site is then accessed via: https://cgnsorg.atlassian.net.
   c. Committee member Kaveh Mohammed’s (GE) email now bounces.

4. Discussion
   a. Code release & infrastructure status
      i. A few bugs have been identified; one is issues with “modify” mode, appears to be related to HDF; will have to fix prior to next release.
      ii. Coverity report on “defects” is available.
      iii. Parallel issue: if want sub-reading or sub-writing, currently expects either one or all processors: to be fixed in the future.
   b. HDF5 status
      i. HDF 1.10.0 has just been released; has improved metadata reading, and multiple dataset reading/writing.
      ii. CGNS can work with 1.10.0, but it is slower than with 1.8 (both serial and parallel). HDF plans to improve this speed issue in next release 1.10.1.
      iii. Breitenfeld to write a recommendation regarding what packages are best to use with CGNS, and Rumsey to post in on the Download page.

5. Grant Possibilities
   a. NSF Grant (SSE) is due at end of April. Last year’s proposal was not funded. Lengthy discussion centered around possibilities this time. Most likely is high order visualization / high order elements, combined with parallel improvement. If funded, then could start off by having a workshop to get community input. Hauser to take lead in putting NSF proposal
together, with help from Wang. Letters of support will be needed from other committee members. All this to be done off-line in coming weeks.

b. Poinot introduced Eric Feron (GA Tech). Eric talked to the committee about his work and possible proposals. He talked about a possible larger NSF proposal (software integration area). He expressed an interest in joining the CGNS Steering Committee in the future.

c. Hauser is pursuing a DOE proposal in exascale, involving CGNS. He is looking at possible ways to involve the HDF Group as a part of it.

6. Review action items
   a. Guzik to implement CPEX 40 into MLL and revise the SIDS HTML docs appropriately.
      i. Slowly working it; this has been made into a feature request on JIRA, so will be removed from Action Items. In future meetings, we will regularly Review outstanding JIRA items/tasks.
   b. Hauser and Breitenfeld to investigate possibility of applying for NSF SSE grant.
      i. Ongoing.
   c. Hauser will try to partner with Breitenfeld (HDF) on the DOE proposal.
      i. Ongoing.
   d. Rumsey to ping Spiegel at NASA Glenn re their experiences with parallel CGNS.
      i. Done; no response.

7. New business
   a. Poinot spoke about a possible survey of CGNS users, to get more feedback from the community.

8. Ongoing Action Items
   a. Review outstanding JIRA items/tasks.
   b. Breitenfeld to write a recommendation regarding what packages are best to use with CGNS, and Rumsey to post in on the Download page.
   c. Hauser to take lead in putting NSF proposal together, with help from Wang. Letters of support will be needed from other committee members. All this to be done off-line in coming weeks.
   d. Hauser to continue to pursue DOE proposal.

9. The next meeting is tentatively scheduled for Tuesday, 28 June 2016 at 10am Eastern.

10. Adjourn

Appendix A – Attendees
Pat Baker       Pointwise  
Scot Breitenfeld HDF Group   
Bob Bush        Pratt & Whitney  
Eric Feron      GA Tech  
Stephen Guzik   Colorado State U  
Thomas Hauser   U Colorado  
Marc Poinot     ONERA  
Chris Rumsey    NASA LaRC  
ZJ Wang         U Kansas