CGNS Telecon Minutes

Tuesday, 20 October 2015, 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. Sept 8, 2015 minutes were approved as published on the website.

3. Steering committee issues:
   a. Committee members (telecon last date attended):
      a. Airbus 9/15
      b. ANSYS 9/15
      c. Boeing 9/15
      d. Colo State 5/15
      e. GE 10/15
      f. HDF 10/15
      g. IL 5/15
      h. NASA LRC 10/15
      i. ONERA 10/15
      j. Pointwise 10/15
      k. P&W 10/15
      l. Stanford 10/14
      m. Tecplot 12/14
      n. TTC 12/14
      o. U Colo 9/14
      p. U Kansas 10/15
   b. Rumsey will regularly contact steering committee members who have not attended a telecon in approximately 1 year, to remind them and make sure they can still keep active membership status.
   c. All steering committee members are encouraged to get atlassian accounts, so they can monitor CGNS software bugs & issues. Do so at: https://cgnsorg.atlassian.net/admin/users/sign-up. The site is then accessed via: https://cgnsorg.atlassian.net.

4. Discussion
   a. Code testing
      i. The site www.batlab.org has not responded; they do not appear to be active currently.
      ii. Amazon has a site for testing, but it comes at a cost.
      iii. Instead, Breitenfeld has set up testing at HDF with various compilers and platforms; on the github repository (in the "develop" branch) one can also see a "build/passing" button that gives the current status using Travis CI, for Linux and Mac.
      iv. Not testing ADF currently, only HDF5.
      v. Breitenfeld and Rumsey to add other existing codes to the testing suite, including UserGuideCode (many of the Fortran codes require some modification… see next section (b)).

   b. Discussion regarding proposal to remove "include 'cgnslib_f.h'" in favor of module "use cgns" for Fortran codes.
      i. This will break existing Fortran codes (need to remove the include statement and add the use statement).
      ii. This also will require that CGNS be built with same compiler that the Fortran code is compiled under.

iii. This proposal was voted on and approved (unanimously). Breitenfeld will remove usage of "include 'cgnslib_f.h"' from future releases; new requirement is "use cgns".

c. Breitenfeld will investigate existing issue of write error with high-rank array.

d. Discussion of geometry information.
   i. Currently CGNS file simply points to a CAD file.
   ii. Question has come up: should we do more? One problem is that users have many different preferences. Can we simply include IGES information, for example? How about storing polynomial information? Or is all this best left up to each individual user? Need to discuss more later.

e. Write zones in parallel – no time to discuss this issue.

5. Review action items
   a. Breitenfeld to create V3.3 beta release on GitHub, and modify download.html page appropriately.
      i. Done.
   b. Poinot to implement CPEX 39 into MLL and revise the SIDS HTML docs appropriately.
      i. Done. Rumsey updated all associated docs.
   c. Guzik to implement CPEX 40 into MLL and revise the SIDS HTML docs appropriately.
      i. Action carries.

6. New business
   a. Question of whether we plan to hold a CGNS face-to-face meeting at AIAA SciTech in January 2016. Not decided yet.

7. Ongoing Action Items
   a. Guzik to implement CPEX 40 into MLL and revise the SIDS HTML docs appropriately.
   b. Breitenfeld and Rumsey to add other existing codes to the testing suite, including UserGuideCode.
   c. Breitenfeld will remove usage of "include 'cgnslib_f.h"' from future releases; new requirement is "use cgns".
   d. Breitenfeld will investigate existing issue of write error with high-rank array.
   e. All steering committee members are encouraged to get atlassian accounts, so they can monitor CGNS software bugs & issues.

8. The next meeting is tentatively scheduled for Tuesday, 8 December 2015 at 10am Eastern.

9. Adjourn

Appendix A – Attendees

Michael Mirsky	Pointwise
Scot Breitenfeld	HDF Group
Bob Bush	P&W
Mohamed Kaveh	GE
Marc Poinot	ONERA
Chris Rumsey	NASA LaRC
ZJ Wang	Kansas U