

CGNS Steering Committee Telecon Minutes  
28 January 2014

- 1) The telecon was called to order at 11:00 AM eastern time. There were 11 attendees, listed in Attachment 1.
- 2) The minutes of the 17 December 2013 telecon were approved.
- 3) Status of Version 3.2
  - a) Poinot brought up that there is no reason to keep Version 3.2 on hold any longer. In fact, some applications (for example Red Hat) already include V3.2 as part of their latest release. The main hold up issue has been performance of the parallel capability, but this is only a small part of the new version so it can be dealt with after release. Committee voted on whether or not to make the V3.2 release official. All 11 attendees voted "yes." Rumsey to poll the remaining committee members to see if any have objections to making V3.2 official.
- 4) Status of CPEXes
  - a) 0038 – Committee required to vote by 2/12/2014
  - b) Poinot brought up a new CPEX that he would like the committee to consider (will be numbered 0039). This CPEX establishes relationship between multiple bases in a CGNS file, by adding a prefix of the base to names. The main issue is connectivity. ONERA currently has a method for merging bases, but this is problematic when the same naming is used in the different bases. This new proposal should be backward compatible. Rumsey to post new CPEX 0039 to website.
- 5) Other Issues
  - a) The AIAA recommended practice document (SIDS V3.2) is still in process. Rumsey reported that committee members need to submit a form to Amy Barrett of AIAA within 1 week if they want their name to appear in the final AIAA document.
  - b) Possible issues in SIDS/MLL (noted by Poinot)
    - i) One is possible inconsistency between SIDS and MLL: usage of enumeration name ModelType\_t instead of (for example) GasModelType\_t
    - ii) Another is multiple definitions of same thing in SIDS: SpecificHeatVolume and SpecificHeatRatio\_Volume; SpecificHeatPressure and SpecificHeatRatio\_Pressure
    - iii) Poinot will provide more details on issues in SIDS/MLL to committee, for committee to consider by next telecon.
  - c) Hauser brought up possibility to apply for an NSF grant. This call (due March 17) is for scientific software elements. Can have up to 5 PIs. Hauser would like to partner with other interested committee members to write a proposal. If accepted, then funds could be used to hire a developer for the MLL. Hauser to draft outline of NSF proposal and solicit input from committee.

- 6) Status of Old Action Items:
  - a) Hauser and Duque to continue to look into the consortium idea for CGNS, including more active support of HDF-5 consortium. Also look into applying to NSF software infrastructure for sustained innovation by Feb 2014, possibly related to data management plan.
    - i) Carries.
  - b) Hauser, Duque, and Iannetti to continue to develop Iannetti's proposal for handling sprays of unconnected points.
    - i) Carries.
  - c) Hauser to finalize the CGNS survey based on feedback from committee members, and email out to CGNSTalk.
    - i) Carries.
  - d) Guzik will summarize the changes required to the MLL software to have core data always start at location (1,1,1) when including Rind data, as well as backward-compatibility implications, to help the Steering Committee decide on a course of action (index discrepancy).
    - i) Carries.
  - e) Hauser will look into the parallel I/O performance issues.
    - i) Carries.
  - f) All: how to handle bug fixes and CGNS extensions in the future?
  - g) Rumsey to check if Ken is interested in remaining on Committee.
    - i) Done. Alabi is interested on remaining on the committee.
  - h) Rumsey to make a list of possible CGNS tasks for 2014 related to the software and forward to Committee for comment.
    - i) Done.
- 7) Next Telecon is tentatively set for Tue, Feb 18, 2014, 11 am eastern. A confirmation email will be sent prior to the meeting.
- 8) Summary of **action items**:
  - a) Hauser and Duque to continue to look into the consortium idea for CGNS, including more active support of HDF-5 consortium. Also look into applying to NSF software infrastructure for sustained innovation by Feb 2014, possibly related to data management plan.
  - b) Hauser, Duque, and Iannetti to continue to develop Iannetti's proposal for handling sprays of unconnected points.
  - c) Hauser to finalize the CGNS survey based on feedback from committee members, and email out to CGNSTalk.
  - d) Guzik will summarize the changes required to the MLL software to have core data always start at location (1,1,1) when including Rind data, as well as backward-compatibility implications, to help the Steering Committee decide on a course of action (index discrepancy).
  - e) Hauser will look into the parallel I/O performance issues.
  - f) All: how to handle bug fixes and CGNS extensions in the future?

- g) Rumsey to poll the remaining committee members to see if any have objections to making V3.2 official.
- h) Rumsey to post new CPEX 0039 to website.
- i) Poinot will provide more details on issues in SIDS/MLL to committee, for committee to consider by next telecon.
- j) Hauser to draft outline of NSF proposal and solicit input from committee.

Attachment 1: Attendees

|                    |                        |
|--------------------|------------------------|
| Pat Baker          | Pointwise              |
| Bob Bush           | Pratt & Whitney        |
| Stephen Guzik      | Colorado State U       |
| Thomas Hauser      | University of Colorado |
| Scott Imlay        | Tecplot                |
| Dmitri Kamenetskiy | Boeing                 |
| Kaveh Mohamed      | GE Global Research     |
| Simon Pereira      | ANSYS / ICEM CFD       |
| Marc Poinot        | ONERA                  |
| Chris Rumsey       | NASA Langley           |
| Brad Whitlock      | Intelligent Light      |