

CGNS Steering Committee Telecon Minutes
06 December 2011

- 1) The telecon was called to order at 11:00 AM eastern time. There were 8 attendees, listed in Attachment 1.
- 2) The minutes of the 30 August 2011 telecon were approved.
- 3) Discussion and vote on CPEX 0033, 0034, and 0035
 - a) Vote was taken to accept CPEX 0033 and 0034 (Hierarchy of families, and Multiple families declarations in Zones, ZoneSubRegions, and Boundary Conditions). Vote on each was passed 8-0.
 - b) CPEX 0035 was felt to not be ready as is. Several felt that it needs to be made more general. Additional work will be done on this proposal in the future, then it will be resubmitted.
 - c) CPEX status was updated on the website.
- 4) Version 3.1 issues
 - a) 64-bit integers: the question came up as to whether it would be helpful to have a flag put in the CGNS files to indicate if it has I4 or I8 integers. The MLL currently can handle both, but what if someone is not using the MLL? Wedan to consider the need for a flag to indicate whether a file is using I4 or I8.
 - b) Rumsey to check through the documentation (SIDS and Filemapping) to make sure there are no explicit I4 specifications that need to be changed to I8 (or described to be a function of the compilation). For example, filemapping docs for Zone_t needs to be changed to I8.
 - c) Earlier CGNSTalk email from Oancea (10/21/11) noted a bug in links, along with a patch. So far, Wedan has not duplicated the problem. Wedan to continue to investigate potential bug in links noted by Oancea (10/21/11).
 - d) Rumsey to add description to MLL docs that for Fortran calls, all integer args are integer*4 in 32 bit mode and integer*8 in 64 bit mode (with a pointer to a fuller description on the intro page).
 - e) Poinot eventually plans to submit a new CPEX adding PointRangeDonor to GridConnectivity_t.
- 5) Membership issues
 - a) Thomas Hauser's second term as chair will officially end in January 2012. However, Thomas has agreed to extend his term by one year, until January 2013.
- 6) Status of previous 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, possibly related to data management plan.
 - i) Action carries.

- b) Rumsey to update CPEX 0034 and call for comments and a vote for new CPEX 0033, 0034, 0035.
 - i) Done.
 - c) Hauser, Duque, and Iannetti to continue to develop Iannetti's proposal for handling sprays of unconnected points.
 - i) Action carries.
 - d) Wedan to continue to look into possible problem with the 64-bit cg_goto_f.
 - i) Action carries.
 - e) Hauser to determine level of CGNS involvement (if any) at ECCOMAS 2012.
 - i) Decided none.
 - f) Iannetti will look into possible R&D Award for the V3 release.
 - i) Action carries.
 - g) Hauser will check his cgsize changes to pcgns into SVN on Sourceforge.
 - i) Action carries.
 - h) Hauser will document the pcgns calls.
 - i) Done, in upcoming AIAA paper.
 - i) Rumsey to remove duplicate pcgns directory from SVN.
 - i) Done.
 - j) Hauser to arrange with AIAA for a room for CGNS meeting at the Aerospace Sciences Meeting 2012.
 - i) Decided not to hold a formal CGNS meeting at the AIAA conference.
 - k) Rumsey to ask current steering committee members for suggestions/nominations for new chair starting Jan 2012.
 - i) Done.
- 7) Other news:
- a) Paper by Rumsey, Wedan, Hauser, Poinot on "CGNS status" has been completed for ASM 2012 (January). It will be presented at the conference on Thursday afternoon.
 - b) NASA is continuing an earlier contract with Computational Engineering Solutions (Wedan), to fully integrate parallel CGNS into the software, among other work. Last year's upgrade to V3.1 with 64-bit integer capability was enabled through this NASA contract.
- 8) Next Telecon is tentatively set for Tue, Jan 24, 2012, 11 am eastern.
- 9) 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, 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) Wedan to continue to look into possible problem with the 64-bit cg_goto_f.
 - d) Iannetti will look into possible R&D Award for the V3 release.

- e) Hauser will check his cgsiz changes to pcgns into SVN on Sourceforge.
- f) Wedan to consider the need for a flag to indicate whether a file is using I4 or I8.
- g) Rumsey to check through the documentation (SIDS and Filemapping) to make sure there are no explicit I4 specifications that need to be changed to I8 (or described to be a function of the compilation). For example, filemapping docs for Zone_t needs to be changed to I8.
- h) Wedan to continue to investigate potential bug in links noted by Oancea (10/21/11).
- i) Rumsey to add description to MLL docs that for Fortran calls, all integer args are integer*4 in 32 bit mode and integer*8 in 64 bit mode (with a pointer to a fuller description on the intro page).

Attachment 1: Attendees

Bob Bush
Richard Hann
Thomas Hauser
Scott Imlay
Simon Pereira
Marc Poinot
Chris Rumsey
Will Stoffers

Pratt & Whitney
ANSYS / CFX
University of Colorado
Tecplot
ANSYS / ICEM CFD
OBERA
NASA Langley
Boeing Commercial