CGNS Telecon Minutes

Tuesday, 03 September 2019, 10:00am Eastern Time

1. The meeting was called to order by ZJ Wang, then control was passed to Bob Bush. Attendees are listed at the end of the minutes.

2. 25 June 2019 minutes were approved as published on the website.

3. Steering Committee Issues

    a. This is the last meeting led by Bush/Wang/Rumsey, who have served 5 years as co-chairs of the CGNS Steering Committee (Bush also served as chair from 1999-2003, and Rumsey was chair from 2003-2008.) All three are continuing forward as regular members of the committee. New co-chairs of the CGNS Steering Committee are Scot Breitenfeld of HDF and Koen Hillewaert of Cenaero. The committee appreciates their willingness to serve, and look forward to lending them their support. The new co-chairs will be responsible for organizing and leading future CGNS meetings and activities. Rumsey to update chair information on website.

4. Steering committee attendance:
    a. Committee members (telecon last date attended):

Airbus	06/2019
ANSYS	09/2019
Boeing	09/2019
Cenaero	09/2019
Colo State	09/2019
DLR	06/2019
HDF	09/2019
IL	09/2019
NASA LRC	09/2019
Numeca	09/2019
nVariate	06/2019
ONERA	09/2019
P&W	09/2019
Pointwise	09/2019
SAFRAN	06/2019
Sandia	09/2019
Tecplot	09/2019
TTC	11/2018
TU Delft	09/2019
U Colo	09/2019
U Kansas	09/2019

5. Discussion
    a. **CGNS Support**. Garratt brought up an issue for discussion: the CGNS Steering committee currently spends most of its time dealing with CPEX issues (new capabilities in CGNS), and perhaps not enough time on CGNS support. The big picture is that many users and potential users of CGNS run into difficulties installing and using CGNS, so it may help if we could work more toward dealing with these customer issues in a more timely manner. For example, are there particular compilers that we must support? How do we prioritize bugs? Who fixes them? How can we more effectively deal with support tickets? We have many JIRA

items/tasks, but they are mostly assigned to Breitenfeld and most steering committee members do not even look at the JIRA dashboard; there should be a better way to spread the responsibilities. The suggestion was made to spend more time during the telecons going through the JIRA dashboard. <u>Garratt and Gutzwiller to initiate prioritization of the top JIRA bugs/issues, and the committee to dedicate a portion of meeting time to discussion/assignment of these items so they can be better dispatched.</u>

 b. **Implementation status of accepted extensions**. CPEX 0042 and its documentation appears to be implemented. CPEX 0045 (in a fork) is mostly implemented, but work on the docs is still ongoing. During implementation of CPEX 0045, they found some things that needed updating/changing/adding. Laurent Cadet (via Rumsey) will send slides to the committee that describe the changes required for MLL implementation of CPEX 0045. The status of CPEX 0043 implementation is not known. Poinot was contacted after the telecon, and he indicated there is no news yet. <u>Poinot to monitor/update committee on progress implementing CPEX 0043.</u>

 c. **Status of other (future) CPEXes**. CPEX 0044 (Function encoding) is still in the works. Separate small committee meetings are occurring to discuss this. It is possible that this CPEX may include polynomial extensions, but it is up in the air at this point. CPEX 0046 (Particle data) is also still in the works, to take into account reviewer comments and to arrange for additional off-line small meetings about it.

6. Review action items
    a. Continue to review outstanding JIRA items/tasks.
        i. Carries.
    b. For CPEX 0040, Guzik to add documentation for additional examples.
        i. Carries.
    c. Breitenfeld will add Gutzwiller's large unstructured multi-block partial write test to regression test suite and see if he can reproduce the issues.
        i. Carries.
    d. Hillewaert, Poinot, Wang, and Karman to decide about CAD classification. May need new writeup on how best to use current functions to define/describe surface info.
        i. Waiting for CPEX 0043 to be implemented first. Carries.
    e. Breitenfeld to update documentation for Intel compilers (serial and parallel) for Windows.
        i. Carries.
    f. Hauser to arrange off-line meetings to determine how to best address the CPEX 0046 reviews plus discussions.
        i. Carries. However, this action item is part of other future CPEX tasks that do not require immediate attention, so it is being removed from this list.

7. Ongoing action items
    a. Continue to review outstanding JIRA items/tasks.
    b. For CPEX 0040, Guzik to add documentation for additional examples.
    c. Breitenfeld will add Gutzwiller large unstructured multi-block partial write test to regression test suite and see if he can reproduce the issues.
    d. Hillewaert, Poinot, Wang, and Karman to decide about CAD classification. May need new writeup on how best to use current functions to define/describe surface info.
    e. Breitenfeld to update documentation for Intel compilers (serial and parallel) for Windows.
    f. Garratt and Gutzwiller to initiate prioritization of the top JIRA bugs/issues, and the committee to dedicate a portion of meeting time to discussion/assignment of these items so they can be better dealt with.
    g. Poinot to monitor/update committee on progress implementing CPEX 0043.
    h. Rumsey to update chair information on website.

8. New business:
    a. None.

9. The next meeting is tentatively scheduled for Tuesday, 12 November 2019 at 10am Eastern.

10. Adjourn

Attendees:
Pat Baker	Pointwise
Bob Bush	Pratt&Whitney
Scot Breitenfeld	HDF Group
Laurent Cadet	Cenaero
Earl Duque	Intelligent Light
Tony Garratt	ANSYS
David Gutzwiller	NUMECA
Stephen Guzik	Colorado State
Scott Imlay	Tecplot
Dimitri Kamenetskiy	Boeing
Thomas Hauser	U Colorado
Koen Hillewaert	Cenaero
Steve Karman	Pointwise
Pierre-Jacques Legay	ONERA
Matthias Moller	TU Delft
Chris Rumsey	NASA Langley
Greg Sjaardema	Sandia
ZJ Wang	U Kansas