

MICE Experiment Management Office

30th June 2015; 14:00 BST

Phone details: <http://mice.iit.edu/phonebridge.html>

Members: R. Bayes, S. Boyd, K. Long, D. Rajaram, C. Rogers, C. Whyte
Invited: D. Adams, V. Blackmore, A. Bross, A. Nichols, R. Preece,
P.M. Hanlet,

Notes

1. Introduction: KL

- Principal issues to discuss today: bringing the s/w into a similar state of readiness when compared to the online and h/w;
- Next stages in the operations and analysis projects.

2. Minutes and actions: All

- **DR:** Work with AD to define a timeline to get the MAUS speed-up done.
 - **Agenda item.**
- **DR:** Get YK to document online data structure.
 - **Done.** YK provided documentation and link during collaboration. The documentation is on MICE Mine.
- **DR:** Ensure consistent code versioning, archival and retrieval across online system.
 - **Done.** Online code is stored in a repository on Launchpad. Controls and monitoring is versioned and backed up online.
- **KL:** to push through meeting with SS; we need: PMcI, SS, CW, RP, KL, KR.
 - **Stands.**
- **KL/RP:** 15:00 daily commissioning and ops meeting; starting tomorrow.
 - **Superseded.** Magnet cooling then training.

3. MAUS: DR

- **Speed-up:**
 - MAUS release being patched to run on the Grid.
 - Principal issue now is the speed up. DR is working on the reconstruction speed-up. Remaining issue is to ensure that JSON output is preserved for debugging. DR then needs to prepare some tests too. Goal is by the end of the week to have string conversions removed.
 - CR working on removing string conversion removal in MC.

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- Deep copy of data in tracker reconstruction has been removed. Other deep copies might be present, need to check when this iteration is stable.
 - Advertised as a factor of four speed up.
 - **ConfigDB**
 - A. Wilson used to maintain the ConfigDB. Now need a new person. This could be J. Martyniak. Need to validate against documentation from the MOM.
 - Goal to clean up CDB for data taken so far.
 - **Processing**
 - Online processing is running; updates every minute. Some speed-up expected when new MAUS release is in.
 - Offline processing has stalled due to s/w infrastructure issues. This is being patched.
 - **Agree timetable:**
 - Define datasets to be reconstructed:
 - We agreed that all good data should be processed:
 - Run numbers to be processed to be defined by **MOM**;
 - Not viewed as a time-critical task.
 - ConfigDB:
 - MOM makes list of changes;
 - Could be done by Monday 06Jul15;
 - Implement changes agreed defined by MOM;
 - J. Martyniak; DR will ask how this can be done.
 - Processing:
 - Test processing;
 - Goal run test processing during the shutdown for ISIS open days
 - Experts check;
 - Run online plots for experts to check.
 - Run processing;
 - Reprocessing is running at start of 01b
 - CR raises the issue of the geometry validation. For example, the geometry experts need to sign off their geometry.
 - **Actions:**
 - **KL:** Email to MICE to explain that the above is what we will do and strengthen the MOM's arm in getting experts to check.
4. **Commissioning and operations: SB**
- Much data has been taken. Decision on Monday was to make sure the data analysis would catch up. Have now decided not to take data overnight to allow the magnet preparations to go ahead.
 - Shift personnel still required to baby-sit the experiment.
 - Documentation required for Step IV operation sign-off:

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- Papers have been prepared and are posted on the safety reviews section of MICE Mine.
 - Safety paperwork will be reviewed on Thursday at 11:00; first safety tour will be at 16:30, again on Thursday.
 - Daily run meeting essential to coordinate activities of persons on shift.
 - 24-hour running still being planned for 01b. Present push on getting current in the magnets makes magnetic field in 01b more likely.
5. **Status of Step I publications: CR for VB**
- Pion-contamination paper:
 - MICE Note is with the referees.
 - EMR beam-test paper:
 - Draft of paper with wise people.
6. **Preparations for analysis at Step IV: CR**
- Two rafts of data: tracker data; being analysed by the tracker group.
 - Beam optics; need to try and get more effort involved. Action for **KL and CR** to try and enhance the effort.
 - Skeleton paper has been prepared. **KL and CR** need to look at it.
 - CR has been investigating the geometry. Has noticed that TOF move was not recorded. This is now corrected.
 - Need to remind people to enter changes in the Elog. We also discussed need for a record of operations that is not revised after the fact. This could be only the Log tag. We agreed to distinguish the record of what happened from documentation.
 - **SB**: Press for full recording in the elog of factors and interventions that affect data taking
 - **SB**: Seek to remove the “editing feature” for the Log tab on elog.
7. **DONM**
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8. **AoB**
- None.

Summary of actions:

- **KL**: to push through meeting with SS; we need: PMcl, SS, CW, RP, KL, KR.
- **KL**: Email to MICE to explain that the above is what we will do and strengthen the MOM's arm in getting experts to check.
- **KL/CR**: Try and enhance optics effort.
- **KL/CR**: Review skeleton of first paper prepared by CR.
- **SB**: Press for full recording in the elog of factors and interventions that affect data taking
- **SB**: Seek to remove the “editing feature” for the Log tab on elog.