



MICE Configuration DB and Batch Processing

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MICE CM41 Software Parallel

MICE Data Mover

- Software moved to a new machine (datamover2)
- Rewritten to use a EMI 3 UI, which replaces an ancient glite UI (lgc tools) with gfal2 tools
- Gfal2 offers *supported* Python API
- Tested with both Step1 and Step4 setups
- Used during a mock run in January.

Reconstruction

- Job submitter modified to be used both with Step1 and Step4 data.
- Job Controller, a WS based system has been rewritten to use AXIS2 and new EMI canl security model.
- Support both batch reconstruction at remote sites and offline reconstruction at RAL.
- Used with MAUS-v0.9.1 last October.

Reconstruction, contd.

- Batch Iteration Number implemented on preprod DB, tested with MAUS
- A relevant table installed on Master DB with one entry (BIN=1) and empty string datacard fields
- BIN=1 indicates default MAUS behaviour.

See: <http://micewww.pp.rl.ac.uk/issues/1285>

Batch Iteration Number API

- Server side implemented in Java, client side in Python
- On Ip:

[bazaar.Launchpad.net/~janusz-martyniak/mcdb/mice.cdb.client.api-python/](bazaar.launchpad.net/~janusz-martyniak/mcdb/mice.cdb.client.api-python/)

- Deployed on preprod CDB mid August
- Released and tested with MAUS on preprod DB recently.
- Implemented on master DB. Ready for MAUS release.

MC Serial Number

- Similar functionality and implementation to BIN
- Links MAUS version and MC s/w version with datacards
- Implemented and deployed on preprod DB
- Python API provided.
- Testing with MAUS on the Grid will follow shortly

MC Job Submitter

- Based on batch reconstruction system
- Data cards to be used are defined by MC Serial number.
- Submission is split into n chunks defined by Ryan and John at Glasgow
- Jobs will be submitted to various Grid sites, output will be collected at RAL

Conclusion

- CDB programming done for the BIN and MCSN. Testing done on the preprod DB, BIN defined in the master CDB. API released
- Controller updated to AXIS2 both for offline and batch reconstruction.
- Datamover rewritten to use Python APIEMI 3 UI, ready for Step4
- Work on MC job submitter started