

LSST Database Hangout 2014-07-16

Date

Jul 16, 2014

Attendees

- [Jacek Becla](#)
- [Andy Salnikov](#)
- [Unknown User \(danielw\)](#)
- [Serge Monkewitz](#)
- [Fabrice Jammes](#)

Goals

- Get together, resolve all bottlenecks, make progress faster, exchange ideas

Discussion Items

master inadvertently broken (merge of DM-622)

- probably incorrect merge
- fixed in [u/fjammes/dm-967](#) during the meeting, reviewed and merged

How to install system dependencies?

- Can't do through eups
- Maybe special package that checks and reports missing dependencies?
- Check with [Kian-Tat Lim](#)?
 - (KTL) We don't have a solution for this in the stack yet. My preference is currently for a "stub" package that checks for system dependencies. I don't want to have system dependency installation in `newinstall.sh`, which should only be for installing eups.

Running on multi-node

- runServer, people not happy at large scale
- pmg used by LHC/Atlas
- ideally, just be flexible and use whatever is recommended for a given cluster

contrib/eupspkg/* packages that [Fabrice Jammes](#) created

- Should there be a better place for these things?
- Ask [Kian-Tat Lim](#)?
 - (KTL) `LSST/external/*` once they have been reviewed.

xrootd integration tests

- Get the latest custom xrootd package, see DM-944
- Get qserv from [u/daniel/kirkwood](#)
- Jacek will set up test environment
- identified first issue: context not passed during the meeting

25 node cluster for Qserv test

- Likely available in Sept, maybe even in Aug, Fabrice will double check

Refmatch

- About week away from testing
- Includes name resolution
- Can't support outer joins that are spatial
 - So queries like "find objects without matches" would not work
 - Chat with [Mario Juric](#) about it, maybe in Phoenix?
 - That is because now we concatenate results from two joins: one against subchunk data, one from overlap
 - Possible fix: maintain in memory subchunk, and subchunk+overlap (now we have subchunk and overlap). But This doubles memory requirement. Need to run through spreadsheet and check cost increase
 - Or... load to memory subchunk+overlap, filter out overlap through a non-materialized view

boost dependency checker script (by [Andy Salnikov](#))

- code non-trivial, naming conventions in boost crazy, likely to change in the future, code needed in more than one place
- needed for partitioner (see DM-666)
- want to put the boost dependency checker into sconsUtil
- but sconsUtil depend on eups
- partitioning package is simple, does not want all these dependencies
- sentiment: maybe better to duplicate code for checking boost versions than use sconsUtil?
- get advice from [Kian-Tat Lim](#)
 - (KTL) I suggested to Daniel that maybe we should punt on all this and just require the user to specify where Boost is (equivalent of "--with-boost="). We can of course look in BOOST_DIR if eups has set that.