



The
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Software Validation

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Overview

- Releases
- RTT Tests
- Big Chain Tests
- Full Chain Tests
- TestPolicy
- DCube

Releases

- Shifters currently monitor:
- Shift A - 16.6.X, 16.6.X.Y
- Shift B - 17.X.0, 16.7.X.Y
- Shift C - debug 32-bit + opt 64-bit versions of above - only looking for problems unique to these builds.
- We were monitoring 16.2.X.Y until HI campaign started, also 16.0.X.Y.

RTT Tests

- Whilst on shift noticed some shifts have log files on castor - not convenient to check why test failed.
- Thanks to Brinick I got the list of all tests with this problem (log file > 20 MB) - log files up to 5 GB in size!
- People running VERBOSE jet finders etc - all now fixed after bug reports opened.

Big Chain Test

- Last year we noticed often scout jobs would fail with some trivial config error
- Idea was to make new RTT based tests using generic AMI tags (like q121, q122 etc) that could be easily updated if the tests were observed to fail with such errors - time window of 3 -4 days between BCT config definition and sending scouts, where these tests can help.
- Only Reco supports generic qxyz tags currently - so project put on hold until this functionality is setup for simulation (then realised workaround might be possible though, via shell script + getCommand.py - latter did not support sxyz until ~2 weeks ago....).

Full Chain Tests

- Updating to mc10a currently
- Have been asked about possibly running FCT type test on large samples every few days (unlike all current RTT tests running every day) - RTT confirmed functionality exists, but not tested by any user.
- I will add temporary test into FCT dev-val to check this out (running on one event).

TestPolicy

- I added action to run `validateXML.py` and it propagated to 1413 packages (instead of the 83 which actually have RTT/ ATN xml files) - i.e. 1332 packages ran it which should not.
- As of today 1332->323 - basically told people to move “use TestPolicy” from public to private, but still some package managers have not done it.
- Side issue - uncovered a number of unsupported RTT packages which fail xml validation. All removed from dev release, except `GeneratorsRTT` - but unable to get any commitment for it to be supported so far (I suspect it ought to be though).

DCube

- Developer has left us - so what now?
- Already issues with crashes in DCube reported in dev RTT tests.
- Apparently DQMF/han will be supported until the end of ATLAS
- Found official recent documentation this week
- Need to see if it has all the functionality DCube has - if so then it is a possible solution.

Software Shifts

- Operating some weeks just in time delivery of shifters - not sustainable, so need larger pool of shifters.
- Slowly getting new shifters signing up (Rolf posted many adverts in sw talks he is giving) so we should get better coverage.
- Persistent issue with shifters doing wrong tasks (e.g. checking wrong tests, not updating our bugs twiki etc).
- Made new very brief shift checklist twiki with easy to view lists of specific things to check.
- <https://twiki.cern.ch/twiki/bin/view/Atlas/SWShiftChecklist>
- Would you like some class 2 shift credits? - speak to myself and Rolf Seuster if you would like to help out with shifts
- Please mention to colleagues we have shifts available if they are looking for some - I am aware other categories have too far too many people chasing too few shifts making signing up for shifts problematic (from personal experience) - sw shifts do not have this problem....
- Don't forget we also have Simulation SW Shifts available.

Conclusions

- Shifts covering relevant releases - seem to be getting larger pool of shifters built up now, but more would be better (please mention to people if you can!).
- No major problems over last few months
- Main worry is DCube support, possibly solved by DQMF/han which is supported.