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RecExCommission in 14.2.10 nightlies (rel_4, bugfix):

Current 'best' recipe

```
source setup.sh -tag=14.2.10.Y,AtlasTier0,rel_4,32
source $AtlasArea/AtlasTier0RunTime/cmt/setup.sh
source RecExCommissionData_links.sh
```

```
get_files -jo RecExCommission_ATN.py
```

edit the number of events and data you want to run over.

```
athena -c RTT=True RecExCommission_ATN.py >& log &
```

Status on Monday

- 3 muon problems remaining

i) [bug #38338] Infinite loop in MuonRDO_Decoder?
ii) data not the same in 14.2.10.Y vs 14.1.0.Y (presumably wrong in 14.2.10)
iii) cant have Raw data in ntuples

- More minor issues: verbosity like:

```
ToolSvc.InDet::InDetDetailedTrackSelectorTool
ToolSvc.InDet::InDetDetailedTrackSelectorTool
```

```
WARNING Track Selector failed to extr
WARNING Track preselection: Zero trac
```

- Christian submitted this as bug 38558

```
ToolSvc.InDetFKF
ToolSvc.InDetFKF
```

```
INFO lost PseudoMeasurement during
INFO lost PseudoMeasurement during
```

- Christian will ask Andi W

```
ToolSvc.MuonHoughPatternTool
ToolSvc.MuonHoughPatternTool
```

```
INFO Curvature too small, should n
INFO Curvature too small, should n
```

Status on Sunday

- Can run RTT data and sim tests
- see some DEBUG statements from CSCRDOMonTool, CSCPRDMonTool, SCTHitsNoiseMonTool - needs fixing
- No unchecked StatusCodes (good)
- Still muon problems
- Data doesnt seem to be correct
- Infinite hang when running on more recent data (bug 38338)
- to do:

```
- fix both muon problems
- add in new tag writer (more useful quantities in the tag)
- add in filtered Tile digits into ESD
- add in option to use LAr data in physics mode (doDSP)
- update RTT test to use M7 data with all systems and 100% LAr coverage
- get HLT part fixed
```

- Current mem use from monitoring (RTT test on M6 data) looks like

```
Vmem total (in MB) reported by perfmon (ini+1st event+event+fin)
  LArMonManager:      84
  InDetGlobalManager: 6
  IDAlignMonManager:  5
  SCTMonManager:     44
  CaloMonManager:    43
  ManagedAthenaGlobalMon: 4
  PrimaryManager:    22
  PixelMonManager:   2
  TRTMonManager:    18
  ManagedAthenaTileMon: 15
  MuonMonManager:   124
  L1CaloMonManager: 10
  MuonManager:      1
  L1MonManager:     1
  ManagedAthenaMonPilot: 0
  sum:              380
```

- Muons and LAr need to reduce there mem use!!!

Status on Fri

- Despite beging able to run the RTT test (as above) OK. if i try to run on more recent data i run into an infinite hang from

```
(gdb) where
#0  0xf6314be6 in std::basic_string<char, std::char_traits<char>, std::allocator<char> >::basic_s
#1  0xe6826501 in CSMid::CSMid () from /afs/cern.ch/atlas/software/builds/AtlasEvent/14.2.10/Inst
#2  0xe683fba3 in MDTGeometry::getOfflineIDfromOnlineID ()
    from /afs/cern.ch/atlas/software/builds/AtlasEvent/14.2.10/InstallArea/i686-slc4-gcc34-opt/lib
#3  0xe682ca84 in MDTcablingSvc::getOfflineIDfromOnlineID ()
    from /afs/cern.ch/atlas/software/builds/AtlasEvent/14.2.10/InstallArea/i686-slc4-gcc34-opt/lib
#4  0xe68f84b4 in MdtROD_Decoder::fillCollections ()
```

- This looks exactly the same as the bug report: https://savannah.cern.ch/bugs/?func=detailitem&item_id=38338#options but i dont see howto fix it
- It is odd to me that it appears for M7 but not M6 data (both have MDT hits in them)
- to reproduce the problem follow the recipe below:

```
source setup.sh -tag=14.2.10,oneTest,32
source $AtlasArea/AtlasOfflineRunTime/cmt/setup.sh
source RecExCommissionData_links.sh
cmt co -r RecExCommission-00-03-04 Reconstruction/RecExample/RecExCommission
cd Reconstruction/RecExample/RecExCommission/cmt
cmt bro cmt config; cmt bro gmake -j4
cd -
get_files -jo RecExCommission_Tier0.py
edit this file to have:
ATLASCosmicFlags.doHLT = False
ATLASCosmicFlags.doMuonHitMon = False
athenaCommonFlags.BSRDOInput=['/castor/cern.ch/grid/atlas/DAQ/M7/daq.p5_combined.0070237.physics.
(this data is on atlcal castor diskpool so you must have STAGE_SVCCLASS=atlcal which should be do
```

```
run like:
athena RecExCommission_Tier0.py
```

```
it will hang at:
HistorySvc
HistorySvc
HistorySvc
```

```
INFO Registered 169 Algorithms
INFO Registered 380 AlgTools
INFO Registered 68 Services
```

doing a:
gdb attach <PID>
will show you its in MDTGeometry::getOfflineIDfromOnlineID ()

- This needs to be fixed ASAP!

Status on Thurs 3rd July (rel_4)

- Muon monitoring STILL DOES NOT COMPILE
(http://atlas-computing.web.cern.ch/atlas-computing/links/distDirectory/nightlies/VALWebArea/nicos_web_ar
) this is really begining to annoy me. i have been complaining about this for 1 week. we are trying to build this release today. we cannot have things not compiling! - this is claimed to be fixed with: MuonRawDataMonitoring-00-00-54, MuonValUtils-00-00-19 but i havent tested this yet.
- I have made a pretty ugly hack to make the Muon BS stuff work by introducing a file: RecExCommission_BSRead_config_hack.py which sets up the BS for us. this should be made common with RecExCommon for the REC merger...
- I could then run the RTT test and see Moore tracks as well as ID tracks (to check ID hadnt been screwed up from this change)

```
root [2] CollectionTree->Scan("MooreTracks:ConvertedMBoyMuonSpectroOnlyTracks:ConvertedMBoyTracks
*****
*      Row      * MooreTrac * Converted * Converted * TRT_Cosmi * SCT_Cosmi *
*****
*          0 *          0 *          0 *          0 *          0 *          0 *
*          1 *          1 *          0 *          0 *          1 *          0 *
*          2 *          0 *          0 *          0 *          1 *          0 *
*          3 *          2 *          0 *          0 *          0 *          0 *
*          4 *          0 *          0 *          0 *          1 *          1 *
*          5 *          0 *          0 *          0 *          1 *          0 *
*          6 *          1 *          0 *          0 *          2 *          0 *
*          7 *          0 *          0 *          0 *          0 *          2 *
*          8 *          0 *          0 *          0 *          0 *          0 *
*          9 *          1 *          0 *          0 *          1 *          1 *
*****
```

- Comparing this to the 14.1.0.Y rel_4 RTT test tag file (running on the same events):

```
root -l /afs/cern.ch/atlas/project/RTT/Results/rel_4/14.1.0.Y/build/i686-slc4-gcc34-opt/point1/Re
root [1] CollectionTree->Scan("MooreTracks:ConvertedMBoyMuonSpectroOnlyTracks:ConvertedMBoyTracks
*****
*      Row      * MooreTrac * Converted * Converted * TRT_Cosmi * SCT_Cosmi *
*****
*          0 *          1 *          1 *          1 *          1 *          0 *
*          1 *          1 *          0 *          0 *          1 *          0 *
*          2 *          1 *          0 *          0 *          1 *          0 *
*          3 *          2 *          1 *          1 *          1 *          0 *
*          4 *          1 *          1 *          1 *          1 *          1 *
*          5 *          0 *          0 *          0 *          1 *          0 *
*          6 *          1 *          0 *          0 *          2 *          0 *
*          7 *          0 *          0 *          0 *          1 *          2 *
*          8 *          1 *          0 *          0 *          1 *          0 *
*          9 *          1 *          0 *          0 *          1 *          1 *
```

- So this shows significant differences! - WHY???
- When running like this i see on every event:

```
AthenaEventLoopMgr                               INFO  ===>>> start processing ev
| WARNING the standard way of running Muonboy on cosmics is with UseRoafFromMdt = false |
-----
StoreGateSvc                                       WARNING retrieve(non-const): No valid
Try to use a const DataHandle
```

ToolSvc.MuTrkMon
StoreGateSvc

ERROR Can't find MuonContainer obje
WARNING retrieve(const): No valid pro

- which dont look so bad (compared to what i saw before...

Status on Wed 2nd July (rel_3)

- LAr monitoring problem is fixed (thanks)
- ESD writing is fixed by adding the line: ATLASCosmicFlags.doCaloTrkMuId=False proper fix is on the way too (this is savanagh bug report 38385)
- Still need ATLASCosmicFlags.doMuonHitMon = False because muon monitoring STILL doesnt compile in val or bugfix. Nektarios is trying to fix it.
- by adding to

```
MuDetCosmicFlags.doMdtRawNt = False
MuDetCosmicFlags.doRpcRawNt = False
MuDetCosmicFlags.doCscRawNt = False
MuDetCosmicFlags.doTgcRawNt = False
```

- To RecExCommissionSetFlags_jobOptions.py able to run with muons on. But still see many warnings like:

```
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ToolSvc.MdtPrepDataProviderTool      ERROR In ProcessCSM - Couldn't reco
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
-----
| WARNING the standard way of running Muonboy on cosmics is with UseRoaFromMdt = false |
-----
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
DataProxy                              WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc                      INFO No converter for object  CLI
```

```
DataProxy                                     WARNING accessData: conversion failed
  Returning NULL DataObject pointer
MooSegmentMaker.MooSegmentFinder.MuonPatternSegmentMaker  WARNING Failed to retrieve RpcPrepDa
ByteStreamCnvSvc                               INFO No converter for object  CLI
DataProxy                                     WARNING accessData: conversion failed
  Returning NULL DataObject pointer
MooSegmentMaker.MooSegmentFinder.MuonPatternSegmentMaker  WARNING Failed to retrieve TgcPrepDa
```

- on every event. is themuon data OK??? seems not as i see no muon tracks whereas i do running on the same data in 14.1.0.Y

Status on Tue 1st July (rel_2)

- Muon monitoring packages STILL not compiling in either val or bugfix <-- PLEASE FIX
- LArRawChannelMonTool::fillHistograms () problem (see rel_0 bit below...) traced to LArOnlineID::isHecOnlineFebId by Michel Lefebvre and Frank Olaf BERGHAUS (thanks). this could be a problem as LArIdentifier package has many clients so may not be able to be fixed in a cache. Fix is in LArIdentifier-01-01-15 - but this requires a lot of recompiling - should make it into rel_3 bugfix i hope
- Then running is similar to yesterday (ie. need rec.doHists=False to fix LArRawChannelMonTool::fillHistograms () problem, need to turn off muons to avoid crash MdtPrepRawDataNtuple crash)
- ESD writing problem can be fixed by the line: ATLASCosmicFlags.doCaloTrkMuId=False then i can run...

Status on Mon 30th June (rel_1)

- If using the HEAD of RecExCommission there is a problem due to LArCosmicFlags.doDSP - i hope this can be fixed soon...
- all problems as below (rel_0) plus

```
ByteStreamCnvSvc                               INFO No converter for object  CLI
DataProxy                                     WARNING accessData: conversion failed
  Returning NULL DataObject pointer
MdtPrepRawDataNtuple                           ERROR Cannot retrieve MdtPrepDataC
CBNT_AthenaAware                               WARNING failure to execute sub-algo
```

```
*** Break *** segmentation violation
Using host libthread_db library "/lib64/tls/libthread_db.so.1".
Attaching to program: /proc/22118/exe, process 22118
[Thread debugging using libthread_db enabled]
[New Thread 4159502016 (LWP 22118)]
0xffffe410 in __kernel_vsyscall ()
#1  0x001fad23 in __waitpid_nocancel () from /lib/tls/libc.so.6
#2  0x001a47a9 in do_system () from /lib/tls/libc.so.6
#3  0x002d498d in system () from /lib/tls/libpthread.so.0
#4  0xf768aadf in TUnixSystem::Exec () from /afs/cern.ch/atlas/offline/external/LCGCMT/LCGCMT_54g
#5  0xf76904ed in TUnixSystem::StackTrace () from /afs/cern.ch/atlas/offline/external/LCGCMT/LCGC
#6  0xf768d1aa in TUnixSystem::DispatchSignals () from /afs/cern.ch/atlas/offline/external/LCGCMT
#7  0xf768d238 in SigHandler () from /afs/cern.ch/atlas/offline/external/LCGCMT/LCGCMT_54g/Instal
#8  0xf768c485 in sighandler () from /afs/cern.ch/atlas/offline/external/LCGCMT/LCGCMT_54g/Instal
#9  <signal handler called>
#10 0xe71c79ce in IdentifiableContainer<MdtCsm>::const_iterator::operator* ()
    from /afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasEvent/rel_1/InstallArea/i686-slc
#11 0xe2c5fc15 in MdtRawDataNtuple::execute ()
    from /afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasReconstruction/rel_1/InstallArea
#12 0xf5abe721 in Algorithm::sysExecute ()
    from /afs/cern.ch/atlas/offline/external/GAUDI/v19r9-LCG54g/InstallArea/i686-slc4-gcc34-opt/li
#13 0xe779508e in CBNT_AthenaAware::execute ()
```

Status on Sun 29th June (rel_0)

- Not looking good!
- Firstly muon monitoring packages still not compiling! - see
- Running OOTB with the line: `ATLASCosmicFlags.doMuonHitMon = False` gives a nasty crash ending like

```
#11 0xe19c65d6 in LArRawChannelMonTool::fillHistograms ()
    from /afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasAnalysis/rel_0/InstallArea/i686-
#12 0xe759eba6 in ManagedMonitorToolBase::fillHists ()
    from /afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasEvent/rel_0/InstallArea/i686-slc
Previous frame inner to this frame (corrupt stack?)
```

- turning off monitoring: `rec.doHist=False` i can run over 7 events but then get:

```
TRT_RDO_ContainerCnv          INFO Found container with TRT_LoLu
ElementLink                  ERROR toPersistent: the internal st
T_AthenaPoolCustomCnv        FATAL Failed to convert object to p
AthenaPoolConverter          ERROR CreateRep failed, key = MuonC
ToolSvc.StreamESDTool        ERROR Could not create Rep for Data
StreamESD                    ERROR streamObjects failed.
AthenaEventLoopMgr          INFO Execution of algorithm Stream
Py:PerfMonSvc                INFO [evt: 6] => VMem = 1998.922 MB  RSS = 1530.973 MB  malloc = 108
AthenaEventLoopMgr          INFO ===>>> done processing eve
AthenaEventLoopMgr          ERROR Terminating event processing
```

- turning off ESD writing as well: `rec.doWriteESD = True` , `ATLASCosmicFlags.doFilteredESD=False` runs but with our favourite muon errors on every event

```
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ToolSvc.MdtPrepDataProviderTool  WARNING No Mdt RDO container in Store
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ToolSvc.RpcPrepDataProviderTool  WARNING No RpC RDO container in Store
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ToolSvc.TgcPrepDataProviderTool  WARNING No TGC RDO container in Store
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc             INFO No converter for object  CLI
DataProxy                    WARNING accessData: conversion failed
```

| WARNING the standard way of running Muonboy on cosmics is with `UseRoAFromMdt = false` |

```

-----
ByteStreamCnvSvc          INFO No converter for object  CLI
DataProxy                WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc          INFO No converter for object  CLI
DataProxy                WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc          INFO No converter for object  CLI
DataProxy                WARNING accessData: conversion failed
  Returning NULL DataObject pointer
ByteStreamCnvSvc          INFO No converter for object  CLI
DataProxy                WARNING accessData: conversion failed
  Returning NULL DataObject pointer
MooSegmentMaker.MooSegmentFinder.MuonPatternSegmentMaker  WARNING Failed to retrieve RpcPrepDa
ByteStreamCnvSvc          INFO No converter for object  CLI
DataProxy                WARNING accessData: conversion failed
  Returning NULL DataObject pointer
MooSegmentMaker.MooSegmentFinder.MuonPatternSegmentMaker  WARNING Failed to retrieve TgcPrepDa

```

Status on Thurs 26th June

- LArCellRec-02-10-06 has made it into BUGFIX but MuonCommRecExample-00-03-36 has not yet
- Seem to be able to run the RTT test OK adding the flags:

```
ATLASCosmicFlags.doMuonHitMon = False
```

- To stop a crash from Muon monitoring which seems to be because MuonRawDataMonitoring-00-00-53 doesnt compile - Nectaros is looking into this
- Need to add the tags: MuonCommRecExample-00-03-36 and InDetTrackSelectorTool-00-01-21
- SCT ESD writing issues seems to be fixed (not sure how??)
- Muon data corruption seems to still be a problem
- Suggested problem with TRT data in compressed format (ie. new data) RTT test is on M6 data which is old and so looks OK.
- Seems to be a memory leak in bugfix - see comparison perfmon plots (especially page 6 of the pdfs) at: <http://jboyd.web.cern.ch/jboyd/MemComp/>
- The main leaks seem to be in TRT_RodDecoder and SCT_RodDecoder - see: <http://jboyd.web.cern.ch/jboyd/MemComp/leaks>

Status on Wed 25th June

- Same as Tuesday (see below)
- I checked that the tags LArCellRec-02-10-06 and MuonCommRecExample-00-03-36 are in VAL so i hope they will be in BUGFIX tomorrow
- even with InDetAlignmentMonitoring-00-02-14 which is in BUGFIX i see

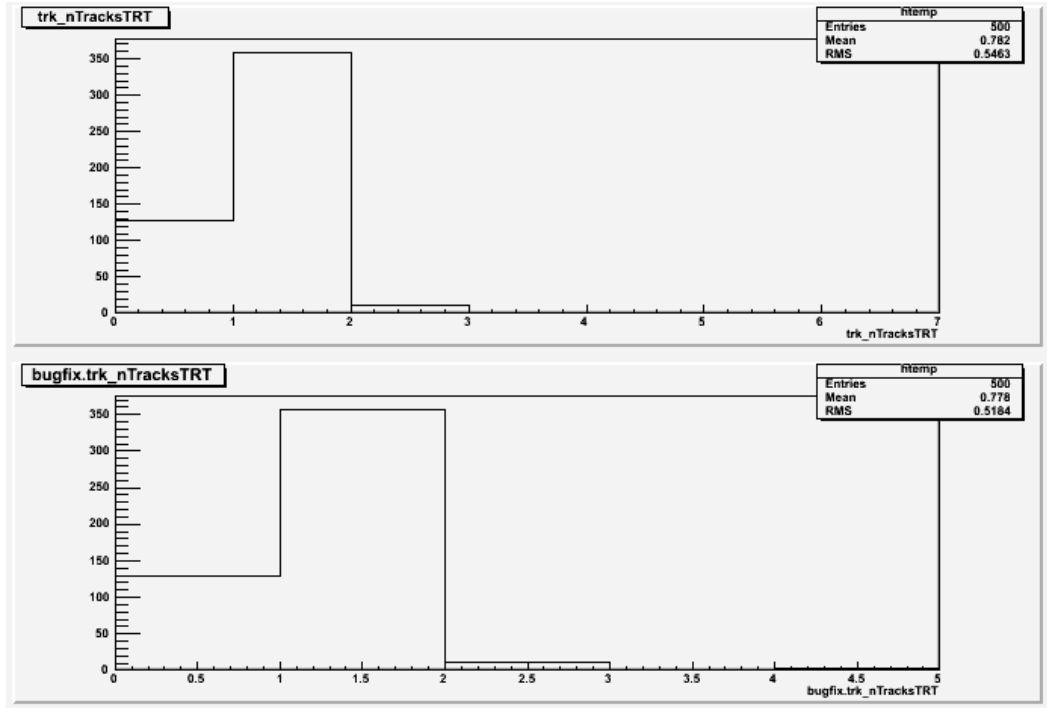
```

NameAuditor INFO About to Enter IDAlignMonManager Execute Method
ToolSvc.InDet::InDetDetailedTrackSelectorTool WARNING Track Selector failed to extrapolate track
ToolSvc.InDet::InDetDetailedTrackSelectorTool WARNING Track preselection: Zero track pointer rece
FATAL 2008-Jun-25 15:15:53 [static void ers::ErrorHandler::SignalHandler::action(...) at ers/src/

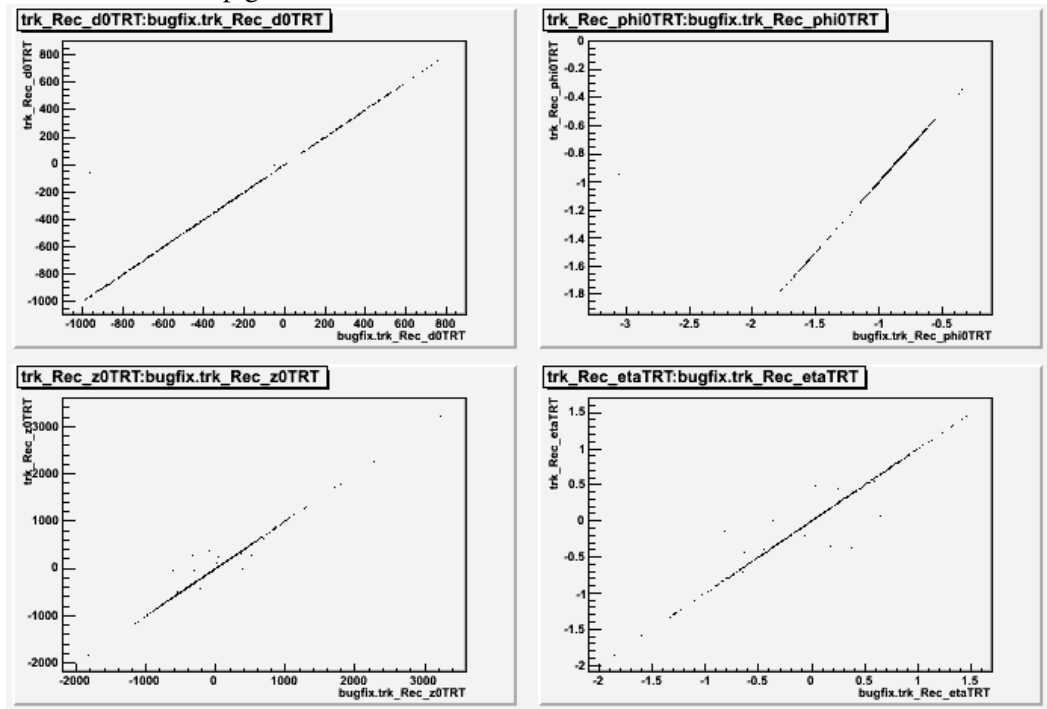
```

- This is contuinuation of savanagh bug #38098
- Also still see crash from SCT ESD writing and Muon monitoring
- Muon monitoring should be fixed with: MuonTrigCoinData (00-00-03) (in val and bugfix we have: MuonTrigCoinData-00-02-00)
- SCT ESD writing is hopefully under investigation
- Muon data is (probably still corrupt too!)
- With above changes i can run the 500 event RTT test OK. not sure the data is OK.
- See some plots comparing rel_2, 14.1.0.Y with bugfix rel_3 with above fixes etc...

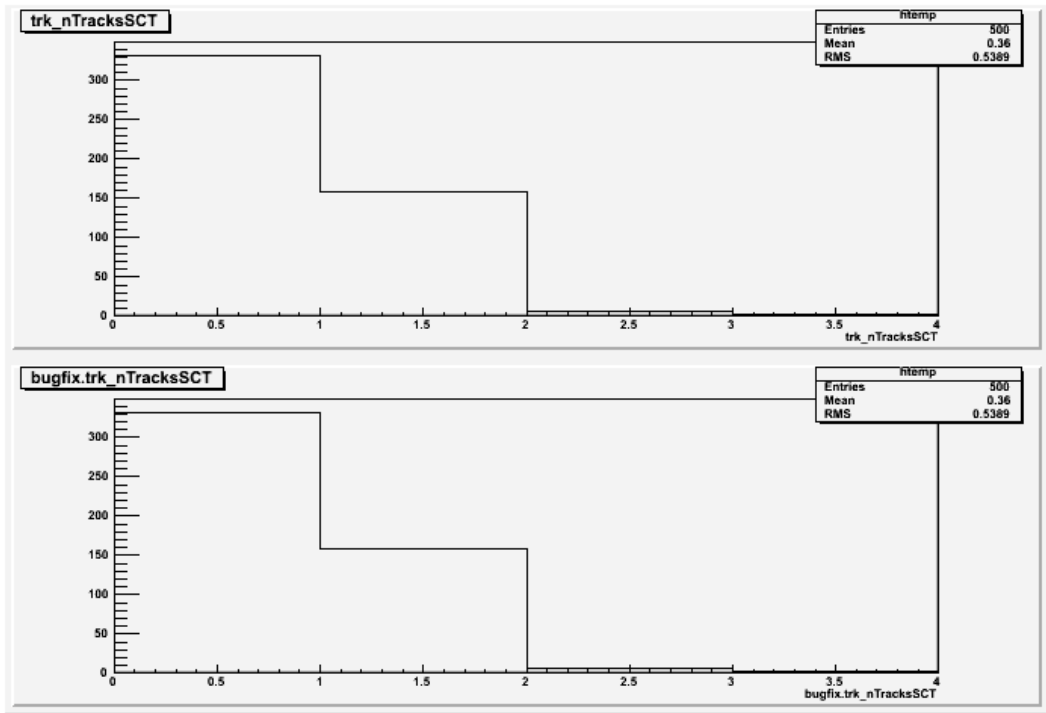
- Comparing TRT (looks similar but not exactly the same)
- NtrtTracks_comp.gif:



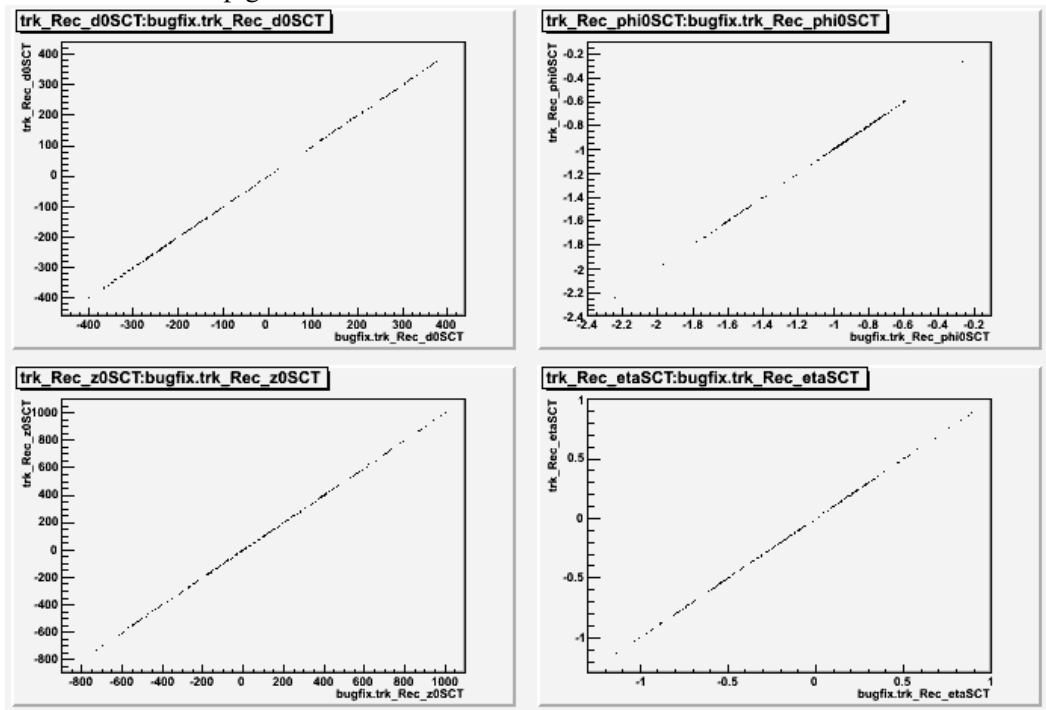
- TrtTrackPars_comp.gif:



- Comparing SCT (looks exactly the same)
- NsctTracks_comp.gif:

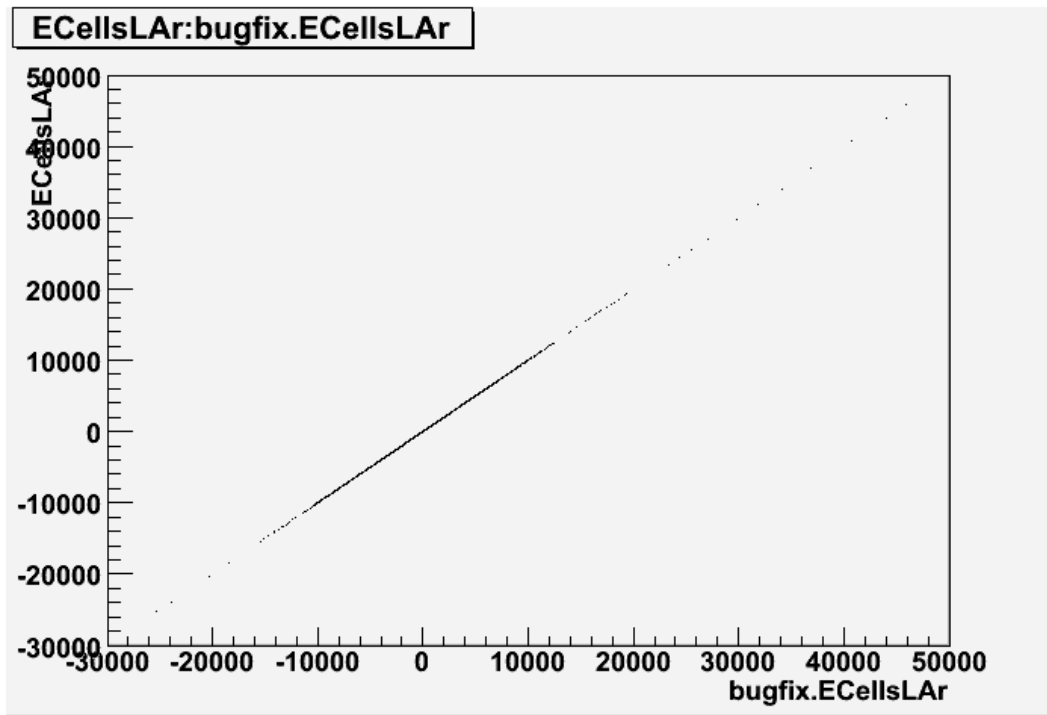


- ScfTrackPars_comp.gif:

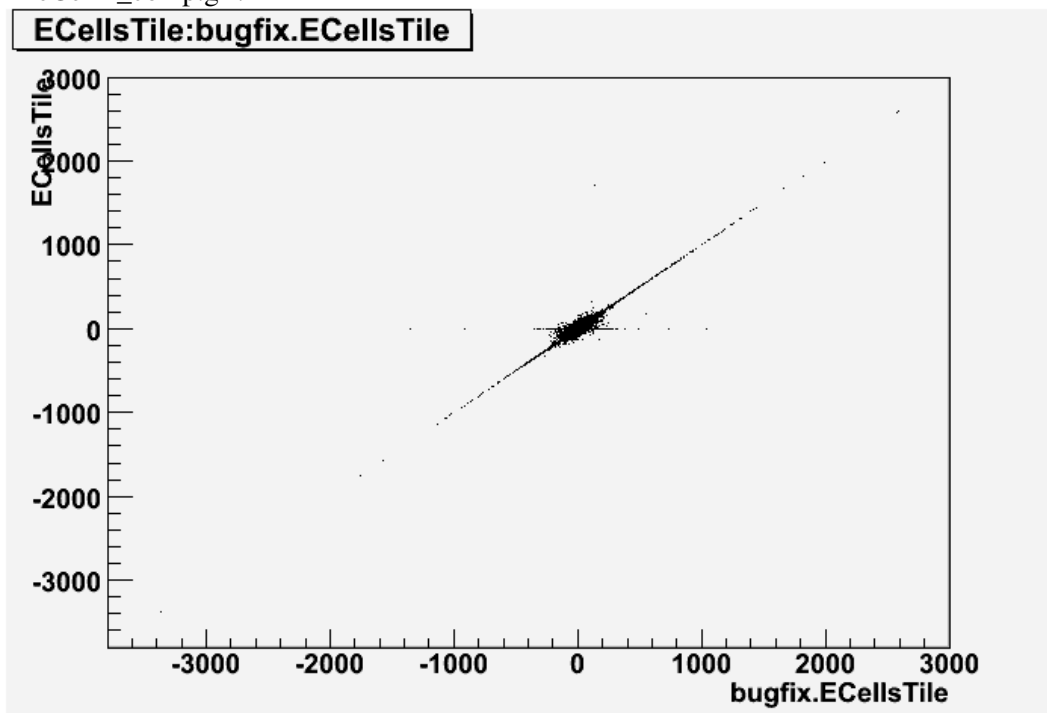


- Comparing LAr (looks exactly the same)

- LArCellE_comp.gif:



- Comparing Tile (looks similar(ish) but not exactly the same)
- TileCellE_comp.gif:



- Because of Muon issues from IDC migration dont try to compare that yet...
- For more info please look at NTP, HIST file and logfile from this job at:

/afs/cern.ch/user/g/gencomm/w0/jboyd/bugfix_3

- NTP can be compared to the one from 14.1.0.Y RTT which is called rtt.root in same dir

Status on Tuesday 24th June

- General recipe

```
> > > > > > > source setup.sh -tag=bugfix,AtlasOffline,rel_2,oneTest
> > > > > > > source $AtlasArea/AtlasOfflineRunTime/cmt/setup.sh
> > > > > > > cmt co MuonSpectrometer/MuonCommissioning/MuonCommRecExample
> > > > > > > cd MuonSpectrometer/MuonCommissioning/MuonCommRecExample/cmt
> > > > > > > cmt config; gmake -j4
> > > > > > > cd -
> > > > > > > cmt co -r LArCellRec-02-10-06 LArCalorimeter/LArCellRec
> > > > > > > cd LArCalorimeter/LArCellRec/cmt
> > > > > > > cmt config; gmake -j4
> > > > > > > cd -
> > > > > > > > get_files -jo RecExCommission_ATN.py
> > > > > > > > edit this to have:
> > > > > > > > rec.doHist=False
> > > > > > > > source RecExCommissionData_links.sh
> > > > > > > > athena -c RTT=True RecExCommission_ATN.py >& log &
```

- Fix for IDAligment bug in tag: InDetAlignmentMonitoring-00-02-14
- Remaining problems
- Muon monitoring bug

Shortened traceback (most recent user call last):

```
File
"/afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasCore/rel_2/InstallArea/share/bin/athena
line 367, in <module>
    include( script )
File "./RecExCommission_ATN.py", line 102, in <module>
    include( "RecExCommission/RecExCommission_topOptions.py" )
File
"/afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasAnalysis/rel_2/InstallArea/jobOptions/R
line 270, in <module>
    include( "RecExCommission/RecExCommissionMonitoring_jobOptions.py" )
File
"/afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasAnalysis/rel_2/InstallArea/jobOptions/R
ions.py",
line 23, in <module>
    include("MuonCommRecExample/MuDetCosmicMonitoring_jobOptions.py")
File
"/afs/cern.ch/user/g/gencomm/w0/jboyd/InstallArea/jobOptions/MuonCommRecExample/MuDetCosmicMonit
line 6, in <module>
    include ( "MuonDQAMonitoring/MuonDQAMonitoring_jobOptions.py")
File
"/afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasAnalysis/rel_2/InstallArea/jobOptions/M
Y",
line 11, in <module>
    include("MuonRawDataMonitoring/MuonRawDataMonitoring_options.py")
File
"/afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasAnalysis/rel_2/InstallArea/jobOptions/M
ons.py",
line 54, in <module>
    from MuonRawDataMonitoring.MuonRawDataMonitoringConf import
MDTRawDataValAlg
ImportError: No module named
MuonRawDataMonitoring.MuonRawDataMonitoringConf
Py:Athena          INFO leaving with code 3: "an error occurred when
importing a file"
```

- Apparently this is because we need a later tag of: MuonTrigCoinData (00-00-03)
- SCT ESD writing problem

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```

to Enter StreamESD Execute Method
  DbSession      Info      Open      DbSession
Domain[ROOT_All]      Info > Access DbDomain      UPDATE      [ROOT_All]
ClassIDSvc
getRegistryEntries: read 12904 CLIDRegistry entries for module ALL
ByteStreamCnvSvc
converter for object CLID= 1153454201
DataProxy
accessData: conversion failed for data object 1153454201/MDT_DriftCircles
Returning NULL DataObject pointer
ByteStreamCnvSvc
converter for object CLID= 1253454202
DataProxy
accessData: conversion failed for data object 1253454202/RPC_Measurements
Returning NULL DataObject pointer
ByteStreamCnvSvc
converter for object CLID= 1353454203
DataProxy
accessData: conversion failed for data object 1353454203/TGC_Measurements
Returning NULL DataObject pointer
PoolXMLFileCatalog Info filename cosmicsESD.pool.root does not exist
XMLFileCatalog Info lookupFilebyPFN: Empty File ID found
PoolXMLFileCatalog Info filename cosmicsESD.pool.root does not exist
XMLFileCatalog Info lookupFilebyPFN: Empty File ID found
PoolXMLFileCatalog Info filename cosmicsESD.pool.root does not exist
XMLFileCatalog Info lookupFilebyPFN: Empty File ID found
PoolXMLFileCatalog Info filename cosmicsESD.pool.root does not exist
XMLFileCatalog Info lookupFilebyPFN: Empty File ID found
PoolXMLFileCatalog Info filename cosmicsESD.pool.root does not exist
XMLFileCatalog Info lookupFilebyPFN: Empty File ID found
PoolXMLFileCatalog Info filename cosmicsESD.pool.root does not exist
XMLFileCatalog Info lookupFilebyPFN: Empty File ID found
Domain[ROOT_All] Info -> Access DbDatabase CREATE [ROOT_All]
B8979CBE-ED41-DD11-A46B-000423D5ADDA
Domain[ROOT_All] Info cosmicsESD.pool.root
cosmicsESD.pool.root Always Root file version:51800
StorageSvc Info Building shape according to reflection information
using shape ID for:
StorageSvc Info EventInfo_p2 [22006E19-F0DA-4EFB-AF55-6FBDA421BF06]
PixelRDO_Contai... INFO PixelRDO_ContainerCnv::initialize()
StorageSvc Info Building shape according to reflection information
using shape ID for:
StorageSvc Info InDetRawDataContainer_p1
[DA76970C-E019-43D2-B2F9-25660DCECD9D]
SCT_RDO_Contain... INFO SCT_RDO_ContainerCnv::initialize()
SCT_RDO_ContainerCnv INFO Found
container with SCT3_RawData concrete type objects
FATAL 2008-Jun-24 15:02:08 [static void
ers::ErrorHandler::SignalHandler::action(...) at
ers/src/ErrorHandler.cxx:88] Got signal 11 Segmentation fault (invalid
memory reference)

```

- emailed Christian/Thijs about this
- Also get ERRORS like:

```

NameAuditor INFO About to Enter MdtPrepRawData
ByteStreamCnvSvc INFO No converter for object CLID= 1153454201
DataProxy WARNING accessData: conversion failed
Returning NULL DataObject pointer
MdtPrepRawDataNtuple ERROR Cannot retrieve MdtPrepDataC
NameAuditor INFO About to Enter ExceptionSvc
NameAuditor INFO Just Exited ExceptionSvc Init
MemStatAuditor INFO Memory usage has changed after
resident set size = 1145.43 MB deltaVsize = 0.421875 MB
NameAuditor INFO Just Exited MdtPrepRawDataNtu
MemStatAuditor INFO Memory usage has changed after
resident set size = 1145.44 MB deltaVsize = 0 MB
CBNT_AthenaAware WARNING failure to execute sub-algo

```

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```
NameAuditor INFO About to Enter MdtRawDataNtuple
ByteStreamCnvSvc INFO No converter for object CLID
DataProxy WARNING accessData: conversion failed
  Returning NULL DataObject pointer
MdtRawDataNtuple ERROR Could not find Mdt CSM container
NameAuditor INFO Just Exited MdtRawDataNtuple
MemStatAuditor INFO Memory usage has changed after
ent set size = 1145.55 MB deltaVsize = 0.285156 MB
CBNT_AthenaAware WARNING failure to execute sub-algorithm
NameAuditor INFO About to Enter RpcPrepRawDataNtuple
ByteStreamCnvSvc INFO No converter for object CLID
DataProxy WARNING accessData: conversion failed
  Returning NULL DataObject pointer
RpcPrepRawDataNtuple ERROR Cannot retrieve RpcPrepDataContainer
NameAuditor INFO Just Exited RpcPrepRawDataNtuple
MemStatAuditor INFO Memory usage has changed after
  resident set size = 1145.71 MB deltaVsize = 0.710938 MB
CBNT_AthenaAware WARNING failure to execute sub-algorithm
NameAuditor INFO About to Enter RpcRawDataNtuple
StoreGateSvc WARNING retrieve(default): No valid pointer
  of type RpcSectorLogicContainer(CLID 1298668563)
RpcRawDataNtuple ERROR Cannot retrieve the RpcSectorLogicContainer
NameAuditor INFO Just Exited RpcRawDataNtuple
MemStatAuditor INFO Memory usage has changed after
ent set size = 1146.09 MB deltaVsize = 1.28125 MB
NameAuditor INFO About to Enter TgcPrepRawDataNtuple
ByteStreamCnvSvc INFO No converter for object CLID
DataProxy WARNING accessData: conversion failed
  Returning NULL DataObject pointer
TgcPrepRawDataNtuple ERROR Cannot retrieve TgcPrepDataContainer
NameAuditor INFO Just Exited TgcPrepRawDataNtuple
MemStatAuditor INFO Memory usage has changed after
  resident set size = 1146.63 MB deltaVsize = 2 MB
CBNT_AthenaAware WARNING failure to execute sub-algorithm
```

• on this Rosy says:

Due to the migration on the new Identifiable Containers in the ByteStream, there are some parts of the algorithms in the filling of the raw data ntuple side that are not correct. (MdtPrepRawDataNtuple for example, as you see)
We are working on this

old stuff (out dated)...

- InDet, CTP OK
- Cannot run with doLAr = False
- Crash in LAr:

```
Exited CBNT_LArCell Execute Method
NameAuditor INFO About
to Enter CBNTAA_LArDigits Execute Method
FATAL 2008-Jun-19 12:03:41 [static void
ers::ErrorHandler::SignalHandler::action(...) at
ers/src/ErrorHandler.cxx:88] Got signal 11 Segmentation fault (invalid
memory reference)
```

Guillaume: Solved in LArROD-02-11-16. The version in 14.2.0 has potentially the same problem, so we would probably need a branch tag there.

• Muons crash:

```
ServiceMgr += CfgMgr.MdtCalibrationSvc(CorrectTof = False)
File
```

old stuff (out dated)...

```
"/afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasEvent/rel_4/InstallArea/python/MdtCalib
line 28, in __init__
    setattr(self, n, v)
AttributeError: 'MdtCalibrationSvc' object has no attribute 'CorrectTof'
Py:Athena          INFO leaving with code 8: "an unknown exception
occurred"
```

Soved in MuonCommRecExample-00-03-34.

- HLT crash:

```
File "/afs/cern.ch/atlas/software/builds/nightlies/bugfix/AtlasTrigger/rel_4/InstallArea/jobOpt
extr.Navigation.Serializer = ser
AttributeError: 'HLTNavigationOffline' object has no attribute 'Serializer'
Py:Athena          INFO leaving with code 8: "an unknown exception occurred"
```

- Answer from Phillip on this:

There was a problem related to the serializer in the rel_4 nightly that should be fixed for rel_5.

- Conclusion - work to do!

-- JamieBoyd - 03 Jun 2008

This topic: [Main > RecExCommissionInDev](#)
Topic revision: r30 - 2008-07-10 - [JamieBoyd](#)



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