

```
export ATLAS_LOCAL_ROOT_BASE=/cvmfs/atlas.cern.ch/repo/ATLASLocalRootBase
source ${ATLAS_LOCAL_ROOT_BASE}/user/atlasLocalSetup.sh
asetup 17.3.10.2,here,slc5,64
localSetupGanga
localSetupPandaClient
localSetupPython
localSetupDQ2Client
export SVNROOT=svn+ssh://olga@svn.cern.ch/repos/atlasoff
voms-proxy-init -voms atlas
asetup 17.3.12.10.1,here,slc5,64
r5477 tag -->
asetup 17.3.10.2.2,here,slc5,64,MCProd
SVNROOT=svn+ssh://olga@svn.cern.ch/repos/atlasoff (somehow changes after settin up workingarea)
cmt show versions Simulation/Digitization/
cmt co -r Digitization-00-35-07-10 Simulation/Digitization/
SVNROOT=svn+ssh://olga@svn.cern.ch/repos/atlasoff
emacs -nw Simulation/Digitization/share/CaloDigitization.py
at line 54: StreamRDO_ItemList+=["TileHitVector#*"]
cd ../cmt
cmt config
gmake
cd ../../..
cmt co -r RecExPers-00-02-88 Reconstruction/RecExample/RecExPers/
opened emacs -nw
~/CaloD3PD_try/04082014/Reconstruction/RecExample/RecExPers/share/OKS_streamESD.py
at line 216 - added
'TileHitVector':['TileHits'],
cd ../cmt
```

```
cmt config
```

```
gmake
```

```
source getcom_job_reduced_2.sh
```

started and worked with changed and compiled two packages.

```
cmt co -r LArL1Sim-00-10-28-branch LArCalorimeter/LArL1Sim
```

```
cd /afs/cern.ch/user/o/olga/CaloD3PD_try/11082014_10_2_2MC/LArCalorimeter/LArL1Sim/cmt
```

```
gmake
```

you've probably got to delete the SCSSimpleMaker algorithm and all references to it in the _entries file. You wont be using it anyway, it's a supercell simulation.

--> for 17.3.10.2.2 does not work.

I should checkout RDO file and ESD file:

```
checkFile.py --sort-fct=name
```

```
~/workspace/Samples/olga/mc12_14TeV.147912.Pythia8_AU2CT10_jetjet_JZ2W.merge.ESD.e1996_s1729_s1720_r  
> log_detailed.txt
```

If you grep for "Tile" you can see that it contains many TileContainers. TileCellVec_MBTSContainer should be the standard one, while TileL2Container_p2_TileL2Cnt TileTTL1Container_p1_TileTTL1MBTS are the containers for trigger (I assume that TTL1 is for TriggerTowerL1)

```
checkFile.py --sort-fct=name myRDO.tmp.pool.root > logRDO12082014.txt
```

```
cmt co -r LArL1Sim-00-10-28-branch LArCalorimeter/LArL1Sim
```

```
0. rm -f LArCalorimeter/LArL1Sim/LArL1Sim/LArSCSSimpleMaker.h
```

```
rm -rf LArCalorimeter/LArL1Sim/src/LArSCSSimpleMaker.cxx
```

```
1. emacs LArCalorimeter/LArL1Sim/share/LArSCSSimpleMaker_jobOptions.py -nw
```

```
#from LArL1SimConf import LArSCSSimpleMaker
```

```
#topSequence+=LArSCSSimpleMaker()
```

```
2. emacs LArCalorimeter/LArL1Sim/share/SimpleSC_From_ESD.py -nw
```

```
from TileRawChannelD3PDBObject import *
```

```
#from LArL1SimConf import LArSCSSimpleMaker
```

```
#topSequence+=LArSCSSimpleMaker()
```

```
3. emacs -nw LArCalorimeter/LArL1Sim/src/components/LArL1Sim_entries.cxx
```

```
less LArCalorimeter/LArL1Sim/src/components/LArL1Sim_entries.cxx | grep SCSSimple
```

```
##include "LArL1Sim/LArSCSimpleMaker.h"

//DECLARE_ALGORITHM_FACTORY( LArSCSimpleMaker )

//DECLARE_ALGORITHM(LArSCSimpleMaker)

less LArCalorimeter/LArL1Sim/src/components/LArL1Sim_entries.cxx | grep SCSimple

##include "LArL1Sim/LArSCSimpleMaker.h"

//DECLARE_ALGORITHM_FACTORY( LArSCSimpleMaker )

//DECLARE_ALGORITHM(LArSCSimpleMaker)

--> compiles !
```

```
emacs -nw LArCalorimeter/LArL1Sim/share/SimpleSC_From_ESD.py
topSequence.LArTTL1Maker.TruthHitsContainer = "LArTTL_CheckForTileEt"
```

did not add it

21.08.2014

For merging hits containers:

<https://svnweb.cern.ch/trac/atlasoff/browser/Simulation/G4Utilities/MCTruthSimAlgs/trunk/src/MergeCalibHitsTool.c>

cmt show versions Simulation/G4Utilities/MCTruthSimAlgs/

```
Simulation/G4Utilities/MCTruthSimAlgs/ MCTruthSimAlgs-00-04-00
/cvmfs/atlas.cern.ch/repo/sw/software/x86_64-slc5-gcc43-opt/17.3.10/AtlasSimulation/17.3.10
```

```
cmt co -r MCTruthSimAlgs-00-04-00 Simulation/G4Utilities/MCTruthSimAlgs/
```

22.08.2014

Hits dump to root

Run reconstruction over hits and dump trigger towers.

Then the hits will correspond to trigger towers.

NoW!

--> runned for 2 events, runned for HITS, running now for full ESD production for 1000 events.

Hits are dumped to root file.

Now to dump ESD to CaloD3PD -->

```
/afs/cern.ch/user/o/olga/CaloD3PD_try/22082014/ESDcreation -
```

```
ESDcreation_full - 1000 events - with pileup --> Need to do it with no pileup!
```

LarHitExample - run Will Buttinger LarHitMerging tool - compiled, bbut last comment did not add.

try4_ersion28% tail -f output_full_LAR_1.log - runs now

dumpCaloD3DP_p1700 - attempt to dump D3PD with p1700 tag as Felix recommended.

/afs/cern.ch/user/o/olga/CaloD3PD_try/22082014/ESDcreation_full_noPileup - worked for small sample for producing with no pileup - is it with no pileup?

/afs/cern.ch/user/o/olga/CaloD3PD_try/22082014/ESDcreation_full_noPileup/dumpD3PD - to get small ntuple

Important to set different athena version:

> asetup 17.3.12.10.1,here,slc5,64

[olga@lxplus0150]~/CaloD3PD_try/22082014/ESDcreation_full_noPileup/dumpD3PD% nohup ./runJob.sh &

output in athena.out file.

to do it with big files and get to know with trigger towers files. to understand how many events are there and send it later to Phillip to understand if it is correct?

1000 file was not finished, why?

/afs/cern.ch/user/o/olga/CaloD3PD_try/22082014/ESDcreation_100_noPileup/dumpD3PD

here should be 100 events with no pileup - everything is ready to start, important to set correct athena - watch in Readme file.

Finished - started Ntupleproduction -->

/afs/cern.ch/user/o/olga/CaloD3PD_try/22082014/ESDcreation_100_noPileup/dumpD3PD

/afs/cern.ch/work/o/olga/22082014_100_noPU/OUT.NTUP_COMMON.D3PD.root - 100 events with no pileup

Started 900 events ESD creation with no pU ->

/afs/cern.ch/user/o/olga/CaloD3PD_try/22082014/ESDcreation_1000_noPileup/try_2_26082014

Also to start 100 events with pileup and 1000 events with pileup.

/afs/cern.ch/user/o/olga/CaloD3PD_try/22082014/ESDcreation_100_PU

I'm afraid for larger files - one has to split them as RDO file get's too big.

27.08.2014

Prooving that tower_tower is from tileCal?

[olga@lxplus0111]~/CaloD3PD_try/27082014/testTileTower% cmt co
PhysicsAnalysis/D3PDMaker/CaloD3PDMaker/

emacs -nw PhysicsAnalysis/D3PDMaker/CaloD3PDMaker/python/TowerD3PDObject.py

```
TowerD3PDObject = getTowerD3PDObject(makeTowerD3PDObject,'tower_', 'TowerD3PDObject')
```

```
def makeTowerD3PDObject (name, prefix, object_name='TowerD3PDObject', getter = None, sgkey = None,  
label = None):
```

here prefix is defined to be "tower_"

Is is trigger tower or tile trigger tower?

-- OlgaNovgorodova - 08 Aug 2014

This topic: Main > HitsToRDORecotrf08082014

Topic revision: r14 - 2014-08-27 - OlgaNovgorodova



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