

## Athena release setup

```
setupATLAS
```

```
lsetup git
```

```
git atlas init-workdir https://:@gitlab.cern.ch:8443/tstreble/athena.git
```

```
cd athena
```

```
git checkout release/21.0.75 ##Choose the relevant release
```

```
git checkout -b <new-branch-name> ##If you want to keep your changes, make a new branch
```

```
git atlas addpkg NAME_OF_PACKAGES ##E.g: InDetRecExample
```

```
cd ../build
```

```
asetup 21.0.75,Athena ##Setup the relevant release
```

```
###Add the local packages to the package filter
```

```
cmake ../athena/Projects/WorkDir
```

```
make -j
```

```
source x86_64-slc6-gcc62-opt/setup.sh
```

## Athena release setup 20.20

```
asetup 20.20.13.1,here
```

```
pkgco.py PixelConditionsServices
```

```
setupWorkArea.py
```

```
cd WorkArea/cmt
```

```
cmt broadcast cmt config; cmt broadcast cmt make binclean; cmt broadcast cmt make
```

## TTHbb L1 code

Important - Please make sure you compile under an SLC6 environment (lplus6 or setupATLAS -c slc6 should provide you with what you need as a bare minimum).

The following are the instructions to allow you to submit the jobs in an automated fashion. I have tried to assign samples to you all based on how long I expect the jobs to run (and also what samples I think you're most likely to care and check up on anyway). They are listed here ([https://docs.google.com/spreadsheets/d/1InDpnJ5wxjaKdjAozJXJVScDbauBE1p\\_EoafRG7xup0/edit#gid=27661051](https://docs.google.com/spreadsheets/d/1InDpnJ5wxjaKdjAozJXJVScDbauBE1p_EoafRG7xup0/edit#gid=27661051)) and note if I have your grid username wrong, please correct it here and let me know. You will also need to change the information in the submission script used in step 16) below.

```
# Step 0 is not needed if you are comfortable using an existing local repository
```

```
0) git clone https://:@gitlab.cern.ch:8443/atlasHTop/TTHbbAnalysis.git
1) cd TTHbbAnalysis
2) git fetch
# Make sure you see that the tag appears in the log messages
3) git checkout 21.2.86.0
4) cd ../
# Building the tag
5) mkdir TTHbbAnalysis-212860-build
6) cd TTHbbAnalysis-212860-build
7) setupATLAS
8) asetup AnalysisTop,21.2.86
9) cmake ../TTHbbAnalysis && make
10) source x*/setup.sh
11) cd ../
# Preparing the grid area
12) mkdir TTHbbAnalysis-212860-grid
13) cd TTHbbAnalysis-212860-grid
14) getTTHbbProdScripts
# This will copy all our submission scripts to this folder
15) source setup_production.sh
16) ./TTHbbSubmit.sh
# Note that there may be times when you are told the spreadsheet needs updating (you should do this)
17) # Check the list of samples printed and the cut files generated
18) # Edit the submission script and set noSubmit = False
19) ./TTHbbSubmit.sh
```

## TTHbb download

<https://gitlab.cern.ch/alheld/ttH-offline-wrapper/tree/master/download>

cd download

python 1\_CreateSortedDownloadLists.py

python 2\_RucioWrapper.py

## TTHbb CPPM L2 code

<https://gitlab.cern.ch/CPPM/TTHbbOfflineAnalysis>

# Create file list

```
dans TTHbbAnalysis/TTHbbOfflineAnalysis/run: for file in /squark1/coadou/TopAnaOutput/TTHbb212640/*  
; do echo $file; ./createsamples_fromAlex.sh $file group datasamples_212640new; done
```

## marsquark python libraries table

export

```
PYTHONPATH=$PYTHONPATH:/cvmfs/sft.cern.ch/lcg/releases/LCG_94a/ROOT/6.14.08/x86_64-centos7-gcc8-op
```

export

```
LD_LIBRARY_PATH=/cvmfs/sft.cern.ch/lcg/releases/LCG_94a/ROOT/6.14.08/x86_64-centos7-gcc8-opt/lib/JsMVA
```

## Upload to the database

```
/afs/cern.ch/user/a/atlcond/utis/AtlCoolMerge.py --folder /PIXEL/ITkClusterError --tag tagname --retag  
newtagname Dbfile OFLP200 ATLAS_COOLWRITE ATLAS_COOLOFL_PIXEL_W  
WCOOLOFL4PIXEL11
```

## Read local database

AtlCoolConsole.py

```
"sqlite://;schema=afs/cern.ch/work/t/tstreble/public/forPixelDB/PixelITkError.db;dbname=OFLP200"
```

## Read central database

AtlCoolConsole.py "COOLOFL\_PIXEL/OFLP200"

```
>>> listtags /PIXEL/ITkClusterError
```

```
Listing tags for folder /PIXEL/ITkClusterError PixelITkError_v1 (unlocked) []
```

```
PixelITkError_v1_ATLAS-P2-ITK-22-00-00 (unlocked) [] PixelITkError_v2 (unlocked) []
```

```
PixelITkError_v2_ATLAS-P2-ITK-22-00-00 (unlocked) [] PixelITkError_v3 (unlocked) []
```

```
PixelITkError_v3_ATLAS-P2-ITK-17-04-02 (unlocked) [] PixelITkError_v3_ATLAS-P2-ITK-22-00-00
```

```
(unlocked) [] PixelITkError_v3_ATLAS-P2-ITK-22-02-00 (unlocked) []
```

```
PixelITkError_v4_ATLAS-P2-ITK-23-00-00 (unlocked) [] PixelITkError_v4_ATLAS-P2-ITK-23-00-01
```

```
(unlocked) []
```

## Copy tag in central database

```
/afs/cern.ch/user/a/atlcond/utis/AtlCoolTransfer.py --newtag ATLAS_COOLWRITE  
ATLAS_COOLOFL_PIXEL_W WCOOLOFL4PIXEL11 OFLP200 /PIXEL/ITkClusterError
```

PixelITkError\_v4\_ATLAS-P2-ITK-23-00-01 PixelITkError\_v4\_ATLAS-P2-ITK-23-00-02

-- ThomasStrebler - 2017-06-18

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This topic: Sandbox > ThomasStrebler

Topic revision: r17 - 2021-11-19 - ThomasStrebler



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