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# Command list to check-out CxAODFramework with Wlnu setup

Create your work-dir and download the framework bootstrap:

```
setupATLAS

mkdir NameYouLike

cd NameYouLike

svn co
svn+ssh://svn.cern.ch/repos/atlasoff/PhysicsAnalysis/HiggsPhys/Run2/Hbb/CxAODFramework/FrameworkEx
FrameworkSub
```

Source all the rel20 test setup:

```
svn export
svn+ssh://svn.cern.ch/repos/atlasoff/PhysicsAnalysis/HiggsPhys/Run2/Hbb/CxAODFramework/FrameworkEx
FrameworkSub/bootstrap/packages-trunk.txt

svn export
svn+ssh://svn.cern.ch/repos/atlasoff/PhysicsAnalysis/HiggsPhys/Run2/Hbb/CxAODFramework/FrameworkEx
FrameworkSub/bootstrap/release-trunk

source FrameworkSub/bootstrap/setup-trunk.sh
```

If all went fine, try to build everything:

```
rc build
```

This will link to the correct version of the local analysis release packages, also remember to do it each time you add a new package with dependencies.

Now move into CxAODMaker /data the following files needed for running Wlnu specific triggers and A4-C analysis periods:

```
cp FrameworkExe_Wlnu/data/ilumicalc_histograms_None_267638-271744.root CxAODMaker/data/

cp
FrameworkExe_Wlnu/data/data15_13TeV.periodAllYear_DetStatus-v63-pro18-01_DQDefects-00-01-02_PHYS_
CxAODMaker/data/

cp FrameworkExe_Wlnu/data/WlnuTriggers.txt CxAODMaker/data/

cp FrameworkExe_Wlnu/data/TriggSF__Pt.root CxAODMaker/data/
```

Try to run the CxAOD production (i.e. CxAODMake): `hsg5framework_Wlnu`  
`configPath=data/FrameworkExe_Wlnu/framework-run.cfg submit_dir=submitDir maxEvents=500`

The main of this executable is here: `FrameworkExe_Wlnu/util/hsg5framework_Wlnu.cxx`

The `submitDir` will contain the output: a very small calibrated xAOD inside the subdir `data-outputLabel` and few control plots (CF, event counts, etc.) that mostly ignore. The current setup allows a pre-selection thinning of the object containers (ele, jets, muons) but the full eventSelection doesn't work when activated in the config-file

# Additional Information

The code has been mainly done for Higgs so there are many hacks around for the Wlnu analysis, as commenting containers to run on SM derivations, the patchy selection etc.

Most of the info about the code structure and the development tricks is here:  
<https://twiki.cern.ch/twiki/bin/viewauth/AtlasProtected/CxAODFrameworkTutorial>

There is a "Framework Meeting" every Tuesday morning at 10:30 and a quite large community of developers.

## TO-DO

- \* Multi-jet studies and definitions
- \* Improve Trigger SF implementations (in CxAODReader \_Wlnu)
- \* Genera optimization of sys. loop in CxAODReader
- \* ??

-- FedericoSforza - 2015-05-18

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This topic: Main > WlnuSetup  
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