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Adding a new feature extracting class to the trigger package

Introduction

First you have to ssh to a particular lxplus machine and follow the instructions from AdrianBuzatuAthenaTrigger01, then create a new feature extraction class as shown in AdrianBuzatuAthenaTrigger02. Here we start to add the b tagging code.

First step

Insert the offline b-tagging tool in the new class and validate it gets correctly instantiated. It's called "m_bTagTool" in "BjetBuilder.cxx". This file is here

<https://svnweb.cern.ch/trac/atlasoff/browser/PhysicsAnalysis/JetTagging/JetTagAlgs/BTagging/trunk>

Ssh at CERN, go to the right folder and setup Athena.

```
ssh -Y lxplus.cern.ch
ssh -Y pcgla09
cd TriggerWork
asetup AtlasP1HLT,17.1.5.18,here
echo $AtlasArea
```

Now add the following include statement "#include "BTagging/BTagTool.h" in the following file

```
cd Trigger/TrigHypothesis/TrigBjetHypo/src
emacs -nw TrigBjetFexEF.cxx
```

Now we try to compile and it fails.

```
cd ../cmt
make
```

The solution is to add the following line in the "requirements" file from the cmt directory (add it in the private session).

```
emacs -nw requirements
use      BTagging                               BTagging-*                               PhysicsAnalysis/JetTagging/JetTag
```

We use "BTagging" twice because we want to include "#include "BTagging/BTagTool.h". We use the path "PhysicsAnalysis/JetTagging/JetTagAlgs" from the URL given to us:

<https://svnweb.cern.ch/trac/atlasoff/browser/PhysicsAnalysis/JetTagging/JetTagAlgs/BTagging/trunk>

Now trying to recompile and it works.

```
make
```

Now run a trigger test. It is completely automatic, as you don't even have to worry about the input file, as it is taken automatically. The final part of the test is a regression test with a reference, meaning that the final outcome will be a bad exit code even if the job itself was perfectly fine (to avoid this confusion you can simply check the log file)

```
cd ..
trigtest.pl --test AthenaTrigRDO_MC_pp_v4_tight_mc_prescale --run AthenaTrigRDO_MC_pp_v4_tight_mc
```

Next step? Previous steps: setup: AdrianBuzatuAthenaTrigger01 and AdrianBuzatuAthenaTrigger02.

Major updates:

-- AdrianBuzatu - 24-Oct-2012

This topic: Sandbox > AdrianBuzatuAthenaTrigger03

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