

## HLT Menu Validation for week36

New HLT menu is released. <https://hypernews.cern.ch/HyperNews/CMS/get/hlt/1665.html>

### Setting up

```
scramv1 p CMSSW CMSSW_3_8_1
cd CMSSW_3_8_1/src
cmsenv
cvs co -r V03-02-24 HLTrigger/HLTanalyzers
cvs co -r V00-05-13 CalibTracker/SiPixelESProducers
cvs co -r V01-02-00 Configuration/HLT
cvs co -r V01-18-66 Configuration/PyReleaseValidation
cvs co -r V01-18-26 Configuration/StandardSequences
cvs co -r V03-12-02 DQM/DTMonitorModule
cvs co -r V06-02-08 EventFilter/StorageManager
cvs co -r V01-19-01 FastSimulation/Configuration
cvs co -r V04-08-10 FastSimulation/HighLevelTrigger
cvs co -r V00-03-13 FastSimulation/Muons
cvs co -r V01-19-03 HLTrigger/Configuration
cvs co -r V01-16-01 HLTrigger/special
cvs co -r V00-05-01 RecoEgamma/EgammaHLTAlgos
cvs co -r V00-04-34 RecoEgamma/EgammaHLTProducers
cvs co -r V01-02-01 RecoHI/HiTracking
cvs co -r V02-01-10 RecoLocalMuon/DTRecHit
cvs co -r V01-02-27 RecoMuon/TrackerSeedGenerator
cvs co -r V02-04-03 RecoMuon/TrackingTools
cvs co -r V00-05-14 RecoPixelVertexing/PixelVertexFinding
cvs co -r V00-01-06 RecoVertex/GhostTrackFitter
addpkg DQM/HLTevF
addpkg DQM/TrigXMonitor
checkdeps -a -h
scram b -j 2
```

Complie error due to FastSimulation and HLTrigger/HLTanalyzers modules. So that modules should be removed.

```
rm -rf FastSimulation
rm -rf HLTrigger/HLTanalyzers
checkdeps -a -h
scram b -j 8
```

### Download & modify offline\_data.py

- Download

```
wget https://fwyzard.web.cern.ch/fwyzard/trigger/collisions/2010/week36/v15/offline_data.py
wget https://fwyzard.web.cern.ch/fwyzard/trigger/collisions/2010/week36/v6/offline_data.py
```

- Modification file

- ◆ Global Tag : GR10\_H\_V8

- ◆ Source file

- ◇ MinimumBias :

- /store/data/Run2010A/MinimumBias/RAW/v1/000/144/089/\*.root which is best run in last.

- ◇ TPG Skimed :

- /castor/cern.ch/user/t/tdaniels/2010\_TPG\_SKIMS/ExpressPhysics/goldenSample\_ru

- ◆ maxEvents : 3000

- ◆ EndPaths

```
#process.EventDisplayOutput = cms.EndPath( process.hltPreEventDisplay + process.hltE
#process.AlCaOutput = cms.EndPath( process.hltOutputCalibration + process.hltOutputE
```

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```
#process.DQMOutput = cms.EndPath( process.hltDQML1Scalers + process.hltDQML1SeedLog
```

- ◆ delete line ( process.setName\_ ) and put instead

```
process.hltTrigReport = cms.EDAnalyzer( "HLTrigReport",  
    HLTriggerResults = cms.InputTag( 'TriggerResults', '', process.name_() )  
)  
process.HLTAnalyzerEndpath = cms.EndPath( process.hltTrigReport )  
process.setName_('HLTOnline')
```

- cmsRun offline\_data.py

- Result

- ◆ week36\_v6\_TPG139407\_offline\_data.log
- ◆ week36\_v15\_TPG139407\_offline\_data.log
- ◆ week36\_v6\_MinBias144089\_offline\_data.log
- ◆ week36\_v15\_MinBias144089\_offline\_data.log

### Online Checking

- ./makeOnline.sh 144089 GR10\_H\_V8 >& online.log &

- Result

- ◆ week36\_v6\_TPG139407\_online.log
- ◆ week36\_v15\_TPG139407\_online.log
- ◆ week36\_v6\_MinBias144089\_online.log
- ◆ week36\_v15\_MinBias144089\_online.log

### Check streams and content of the streams

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