

Table of Contents

Msc. CMSW notes / howtos.....	1
How to list L1 Trigger decisions from EDM file?.....	1
How to skim dataset for HLT path(s)?.....	1
Msc. CRAB related notes / howtos.....	2
DBS Publication problem with pile-up Input Files?.....	2
Invalidate dataset in DBS.....	2

M sc. CMSSW notes / how to

How to list L1 Trigger decisions from EDM file?

Using FWLite and pyROOT:

```
import ROOT
from DataFormats.FWLite import Events, Handle

events = Events ('myEdmFile.root')

handle = Handle ('L1GlobalTriggerObjectMapRecord')
label = ("hltL1GtObjectMap")

ROOT.gROOT.SetBatch()

for event in events:

    event.getByLabel(label,handle)
    lltrig = handle.product()
    for i in range(128):
        try:
            trg = lltrig.getObjectMap(i)
            print trg.algoBitNumber(), trg.algoName(), trg.algoGtlResult()
        except ReferenceError:
            pass
```

How to skim dataset for HLT path(s) ?

Using an HLT filter and standard Pool Output Module:

```
import HLTrigger.HLTfilters.hltHighLevel_cfi as hlt
process.filter = hlt.hltHighLevel.clone(
    HLTPaths = ['HLT_HT250_v*'],
    throw = False
)

process.skim = cms.Path(process.filter)

process.output = cms.OutputModule("PoolOutputModule",
    fileName = cms.untracked.string('output.root'),
    SelectEvents = cms.untracked.PSet(
        SelectEvents = cms.vstring('skim')
    )
)

process.out = cms.EndPath(process.output)
```

M sc. CRAB related notes / how to

DBS Publication problem with pile-up Input Files?

Recent versions of CRAB (at least since 2.7.9) support option

```
crab -publishNoInp
```

which ignores any input files in the publication process. However, and old school solution is to hack the crab_fjr files with a following script:

```
import os,sys

# directory where crab_fjr files reside
input_dir = sys.argv[1]

for file in os.listdir(input_dir):
    if file.find("crab_fjr")==-1 : continue
    import re
    chop1 = re.compile('<Inputs>.*?</Inputs>',re.DOTALL)
    chop2 = re.compile('<InputFile>.*?</InputFile>',re.DOTALL)
    f = open(input_dir+"/"+file)
    data = f.read()
    f.close()
    data = chop1.sub('',data)
    data = chop2.sub('',data)
    f = open('tmp','w')
    f.write(data)
    f.close()
    os.system('mv tmp '+input_dir+'/'+file)
```

Invalidate dataset in DBS

With the command:

```
DBSInvalidateDataset.py --DBSURL=<dbs_url_for_publication> --datasetPath=... --files
```

where dbs url for private publication is:

https://cmsdbsprod.cern.ch:8443/cms_dbs_ph_analysis_02_writer/servlet/DBSServlet

This topic: Main > Andrzej Zuranski CMS SW

Topic revision: r5 - 2012-02-14 - Andrzej Zuranski



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