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DAS

Find out #events in a dataset:

```
dasgoclient --query "dataset=/SingleMuon/Run2017B-31Mar2018-v1/MINIAOD" -json
```

The json file has an entry called "nevents".

Global xrootd URL:

```
root://cms-xrd-global.cern.ch/
```

Parse a list of files and check their #events:

```
cat list.txt | awk '{print "dasgoclient --query \"file=\"$1\" | grep file.nevents\"}' > docheck.sh  
chmod u+x docheck.sh
```

```
# launch check  
./docheck.sh
```

```
# add up numbers of events directly  
./docheck.sh | awk '{s+=$1}END{print s}'
```

GRID

CRAB

Issue starting from 10_1_X

Use the following fix starting from 10_1_0:

```
config.section_("General")
config.General.instance = 'preprod'
```

Originally reported here [↗](#) and circulated by Sam on cms-hlt.

Condor

To solve errors of the type "ERROR: failed to read any data from /usr/bin/batch_krb5_credential!" :

```
export X509_USER_PROXY=/afs/cern.ch/work/${USER:0:1}/${USER}/x509up_u$UID
voms-proxy-init -voms cms -valid 168:00
```

CMSSW

Analyzers

Generate an EDAnalyzer skeleton:

```
mkedanlzc DemoAnalyzer
```

Config files

Event selection

To add an event selection from a text file (1 line per event, using the format Run:LS:Event on each line):

```
f = open('list.txt')
process.source.eventsToProcess = cms.untracked.VEventRange( f )
```

CMSSW integration build

```
scram list CMSSW_9_3_X
```

L1

Pre-firing

<https://twiki.cern.ch/twiki/bin/viewauth/CMS/L1ECALPrefiringWeightRecipe>

HLT

Get menu run on MC

<https://hypernews.cern.ch/HyperNews/CMS/get/hlt/3653/2.html>

edmProvDump

```
root://eoscms//eos/cms/store/reval/CMSSW_10_1_0_pre3/RelValTenTau_15_500/DQMIO/101X_upgrade2018_reali  
| sed -n '/^Processing History/,/^----/p'
```

Dump HLT menu from /cdaq

In hltGetConfiguration: add prefix "orcoff:" to the menu confdb path, e.g. : "hltGetConfiguration
orcoff:/cdaq/..."

In hltConfigFromDB: add option "--adg"

Data

Lumi per LS

```
export PATH=$HOME/.local/bin:/afs/cern.ch/cms/lumi/brilconda-1.1.7/bin:$PATH
```

```
brilcalc lumi --byls -u 1e33/cm2s -b "STABLE BEAMS" -i  
/afs/cern.ch/work/t/tosi/public/STEAM/json/2e34_v1p0p2_cleaned_PU44to47.json
```

```
brilcalc lumi --byls -u 1e33/cm2s -b "STABLE BEAMS" -i "{301567:20,266}"
```

Run-2 Analysis summary table

From PdmV : PdmVAnalysisSummaryTable

Reconstruction

Particle Flow

PF Study Group twiki: <https://twiki.cern.ch/twiki/bin/view/CMS/PFStudyGroup>

Developing tools

Emacs

Ctrl+Space shortcut issue on Mac OS : see this page [↗](#). Basically disable the Mac OS keyboard shortcut that is "Ctrl+Space" by default : "System Preferences > Keyboard > Shortcuts > Input Sources > Select the previous input source and uncheck"

-- NadirDaci - 2018-04-25

This topic: Main > RandomTricksAndTips

Topic revision: r13 - 2019-08-23 - NadirDaci



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