

Table of Contents

Running CRAB at the LPC cluster.....	1
Preliminaries.....	1
Configuration.....	1
Example.....	1

Running CRAB at the LPC cluster

There are many instructions and tips around. Watch out, some of them are out of date. In my case this is what I have done in order to be able to submit jobs to the LPC Analysis cluster.

* In case you are beginner, you will need to follow the instructions at the US CMS site [Connect to LPC cluster](#).

Preliminaries

- Eventhough you will submit directly to a Condor batch queue system, you need to have a valid grid certificate and VO=cms. CRAB will request you to authenticate

Configuration

- As instructed in this page, you need to set your personal `~/.profile` file (no matter if you use a cshell) with the following command:

```
echo "source /uscst1/prod/sw/cms/shrc prod" > ~/.profile
```

- Set the CMSSW, Grid and CRAB environment. For this part, I have set these alias inside my `.cshrc` file:

```
# individual configuration
alias cmsswEnv 'source /uscst1/prod/sw/cms/cshrc prod'
alias crabEnv 'source /uscst1/prod/grid/CRAB/crab.csh'
alias gridEnv 'source /uscst1/prod/grid/gLite_SL5.csh'

# all at once
alias setAll 'crabEnv; gridEnv; cmsswEnv'
```

Example

The following is a very basic example of a CRAB configuration file:

```
[CMSSW]
pset                = tutorial.py
datasetpath         = /MinimumBias/Run2012C-HLTPhysics-24Aug2012-v1/RAW-RECO
output_file        = outfile.root
lumis_per_job      = 10
total_number_of_lumis = 100
# total_number_of_lumis = -1 # all lumis available

[USER]
ui_working_dir     = crab_B
return_data        = 1
copy_data          = 0

[CRAB]
scheduler          = condor
jobtype            = cmssw
```

Excecuion of such job was done under `CMSSW_5_3_4`.

The data has to be located locally at the LPC. You can check this by going to [DAS](#).

- Notice that the scheduler is set to **condor**.
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This topic: Main > CRABatLPC

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