

Useful links

- CMS Twiki page about 2015 collisions
- Browsing information about the datasets ([DAS](#))
- [List](#) of datasets present at LNL
- Browsing and requesting data transfer ([Phedex](#))
- Some useful documentation about [\[git\]](#) (Chapter 1 and 2 is basically all you need to read)

Ntuple production

Installing Heppy (framework only)

The following recipe explains how to install our version [of the Heppy framework](#) on your local computer (either a t2-ui or a cloud virtual machine)

```
# Log in to a t2-ui or a cloud virtual machine

# Set the environment variable to get a 7_4_X CMSSW release

# on sh

SCRAM_ARCH=slc6_amd64_gcc491

# on csh
setenv SCRAM_ARCH slc6_amd64_gcc491

# Install CMSSW (preferably somewhere under /lustre/cmswork/YOURHOME/):
cmsrel CMSSW_7_4_14
cd CMSSW_7_4_14/src
cmsenv

# Initialize git
git init

# Copy the sparse-checkout (which contains the list of packages that have to be checked out from t
cp /lustre/cmswork/mzanetti/cms/cmssw/git/sparse-checkout .git/info/
git config core.sparsecheckout true

# Set the remote repository and fetch the updates
git remote add origin https://github.com/jpazzini/cm-g-cmssw.git
git fetch origin

# Checkout the current working branch (or more formally, create locally the a branch that tracks
git checkout --track origin/heppy-7_4_14

# Compile
scram b -j 8
```

Install DMPD (analyzers and producers)

The current repository can be found at link: <https://github.com/mzanetti79/DMPD>

```
cd $CMSSW_BASE/src/

git clone https://github.com/mzanetti79/DMPD.git

cd $CMSSW_BASE/src/DMPD

git checkout -b DMPD_$LOGNAME
```

```
scram b -j 8
```

Running Heppy

Once your code is settled, you are ready to run the ntuples production. The main files that needs to be edited is

```
$CMSSW_BASE/src/DMPD/Heppy/test/treeProducer.py
```

. There you find -among the other things- the list of datasets you can run on. Select those that you care about by commenting/uncommenting the "selectedComponents" array.

To give it a try, you can select one sample only and run interactively:

```
cd $CMSSW_BASE/src/DMPD/Heppy/test/
python treeProducer.py
```

otherwise to run the full production you need the following command:

```
heppy_batch.py -o Batch treeProducer.py -b 'bsub < ./batchScript.sh'
```

before doing that you need to decide whether to run on DATA or on MC (⚠ you need to launch the jobs separately for the two ⚠). If you run on DATA, the command

```
filterAnalyzer.processName = 'RECO'
```

needs to be uncommented (and commented otherwise)

Contribute to DMPD (TO BE FIXED/UPDATED)

If you'd like to contribute to the DMPD framework (our flavor of Heppy), here are some useful instructions (or more precisely, *how you can learn to stop worrying and love git*[?]).

▣ Show GIT recipe on how to contribute to the DMPD framework ▣ Hide

```
# if you haven't done it before, track the reference remote repository and create your development
```

```
git checkout --track origin/heppy-7_4_12
```

```
git checkout -b heppy-7_4_12-DEV
```

```
# edit stuff (in this example "file.py") in your development branch and commit it
```

```
git commit -a -m comment to my commit file.py
```

```
# switch to the original (tracked) branch, fetch updates from the remote repository (in case it g
```

```
git checkout heppy-7_4_12
```

```
git fetch origin
```

```
git merge heppy-7_4_12-DEV
```

```
# push it back to the server
```

```
git push origin heppy-7_4_12
```

```
# delete your local development branch
```

```
git commit -d heppy-7_4_12-DEV
```

```
-- MarcoZanetti - 2015-10-01
```

This topic: Main > 13TeVHowTo

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