

## Instructions to run 2015 Moore versions on 2015 NB data

Note that since we are in commissioning phase, this page will be rapidly evolving. As usual, don't hesitate to contact the mailing lists with questions

- "lhcb-hlt2-development (lhcb-hlt2-development)" <lhcb-hlt2-development@cern.ch>
- "lhcb-trigger-software (LHCb trigger software developers)" <lhcb-trigger-software@cern.ch>

### Data

- Is copied to here `/eos/lhcb/wg/HLT/2015ValidationData/1406_L0filtered_25ns_0xEE63/`
- And thanks to Alex Shires, is also available through `TestFileDB.test_file_db['2015HLTValidationData_L0filtered']`

### Running over this data

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### Latest instructions as of 14th July 2015

#### Moore v23r7p5 with cmt, on 0xEE63 2015 data

```
cd $User_release_area
SetupMoore v23r7p5 --build-env
getpack Hlt/Hlt2Lines head
getpack Hlt/HltSettings head
getpack ParamFiles head
getpack Hlt/Hlt2CommissioningScripts head
getpack TCK/L0TCK head
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/Commissioning_Physics_2015_Hlt1Only.py Hlt/Hlt2CommissioningScripts/
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig_June2015_0xEE63.opts TCK/L0TCK/options
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig.opts TCK/L0TCK/options
SetupMoore v23r7p5
cmt br make -j 8
SetupMoore v23r7p5
gaudirun.py Hlt/Hlt2CommissioningScripts/python/2015Commissioning/Moore_Hlt12_2015Data.py
```

### Latest Moore

Note if possible use a fully released version. Note that I'm still using cmt since CMake isn't yet supported by ganga. **Basic setup:**

```
cd $User_release_area
SetupProject Moore v<latestMoore>--build-env
```

Then you need to get the L0TCK prepared by Sascha

```
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig_June2015_0xEE63.opts TCK/L0TCK/options
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig.opts TCK/L0TCK/options
```

Then build

```
SetupMoore v<latestMoore>; cmt br make -j 8; SetupMoore v<latestMoore>;
```

Then copy this script `/afs/cern.ch/work/m/mvesteri/public/RealData1406/MooreRateTest.py`, and run

```
gaudirun.py MooreRateTest.py
```

```
cp ~mvesteri/public/MooreRateTest.py . %ENDCODE%
```

## Moore HEAD

Note that I'm still using cmt since CMake isn't yet supported by ganga.

```
cd $User_release_area
SetupMoore HEAD --build-env --nightly lhcb-gaudi-head TUE
#getpack Hlt/Hlt2Lines head
#getpack Hlt/HltSettings head
#getpack ParamFiles head
getpack TCK/L0TCK head
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig_June2015_0xEE63.opts TCK/L0TCK/opt
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig.opts TCK/L0TCK/options
SetupMoore HEAD --nightly lhcb-gaudi-head TUE
cmt br make -j 8
SetupMoore HEAD --nightly lhcb-gaudi-head TUE
```

Then you should be able to run the following script with gaudirun.py (script points to the data on eos).

```
import Gaudi.Configuration
from Moore.Configuration import Moore
Moore().ThresholdSettings = 'Commissioning_Physics_2015'
Moore().ForceSingleL0Configuration = False
Moore().WriterRequires = [ 'Hlt1', 'Hlt2' ]
Moore().outputFile = 'hlt1_reqhlt1.raw'
Moore().EnableTimer = 'hlt1_timer.csv'
Moore().OutputLevel = 3
Moore().EvtMax = -1
Moore().RemoveInputHltRawBanks = True
Moore().Simulation = False
Moore().RemoveInputHltRawBanks = True
Moore().UseTCK = False
Moore().CheckOdin = False
#### apply the default GP cut
from Configurables import HltRecoConf
HltRecoConf().ApplyGHOSTPROBCut = True
HltRecoConf().MaxTrGHOSTPROB = 0.5
#### conditions
from Configurables import CondDB
CondDB().IgnoreHeartBeat = True
CondDB().EnableRunChangeHandler = True
Moore().DDBtag = "dddb-20150526"
Moore().CondDBtag = 'cond-20150617'
Moore().DataType = '2015'
from Gaudi.Configuration import *
from GaudiConf import IOHelper
IOHelper('RAW').inputFiles(["PFN:mdf:root://eoslhcb.cern.ch//eos/lhcb/wg/HLT/2015ValidationData/1
```

## Released Moore v23r7p1 (Outdated)

Note that I'm still using cmt since CMake isn't yet supported by ganga. **Basic setup:**

```
cd $User_release_area
SetupProject Moore v23r7p1 --build-env
getpack Hlt/Hlt2Lines head
getpack Hlt/HltSettings head
getpack ParamFiles head
getpack TCK/L0TCK head
```

Then you need to get the L0TCK prepared by Sascha

```
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig_June2015_0xEE63.opts TCK/L0TCK/opt
```

## Moore2015NBDataLxplus < LHCb < TWiki

```
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig.opts TCK/L0TCK/options
```

Then build

```
SetupMoore v23r7p1; cmt br make -j 8; SetupMoore v23r7p1;
```

Then copy this script </afs/cern.ch/work/m/mvesteri/public/RealData1406/MooreRateTest.py>, and run

```
gaudirun.py MooreRateTest.py
```

```
cp ~mvesteri/public/MooreRateTest.py . %ENDCODE%
```

-- Mika Vesterinen - 2015-06-23

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This topic: LHCb > Moore2015NBDataLxplus

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