

Tracker Maps from eos

This document describes how to use the Tracker Maps from eos scripts provided in the repository : <https://github.com/amandeephy/StripTkMaps>.

Setup

To run in a CMSSW area (10_X_Y or higher):

```
cmsrel CMSSW_10_4_0
cd CMSSW_10_4_0/src
cmsenv
git cms-init
git cms-addpkg DQM/SiStripMonitorClient
cd DQM/SiStripMonitorClient/scripts
```

Once done, you should copy the **TkMaps_from_eos** and **Ext_functions_from_eos** to your scripts/ directory. Change the default output locations by modifying the **tkrunspath** and **evedispath**. You can also change the location of where the DQM file is temporarily copied, (say the /tmp/ directory) by editing the **filepath**.

Running the script

To run the script :

```
python TkMaps_from_eos
--Run_type <Cosmics | ZeroBias | StreamExpress | StreamExpressCosmics>
--Run_number <List of valid integers>
--File_name <This option allows for directly using an xrootd file >
--Output_loc <Location of eos output>
--ML <Boolean (default : False)>
```

Filename is not required and can be reconstructed in the downloadfromeos function in the Ext_functions_from_eos script. The --ML flag requires the config file : StripDQM_OfflineTkMap_Template_cfg_ML.py

Alongside the tracker maps this should create a list of attributes of all modules. The updated SiStripTrackerMapCreator.cc now allows for the number of top modules printed in the top modules log file (numTopModules) to be unsigned integer, passing a -1 will create a dump of all strip variables in TopModules.log.

-- AmandeepSinghBakshi - 2020-02-28

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