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Disappearing Tracks Trigger, Run 3

This twiki is dedicated to the trigger work for the Disappearing Tracks Analysis in Run3.

Current trigger path

Procedures for 2018 DATA/MC reprocessing with private HLT path

For 2018 MC

step2:

```
cmsDriver.py
--filein root://cms-xrd-global.cern.ch//store/mc/RunIIFall18wmLHEGS/WJetsToLNu_TuneCP5_13TeV-madg
--fileout file:MC_step2_2018.root --mc --eventcontent RAWSIM --datatier GEN-SIM-RAW
--conditions 102X_upgrade2018_realistic_v15 --step DIGI,L1,DIGI2RAW,HLT:MYHLT --nThreads 16 --era
--python_filename MC_step2_2018_cfg.py --no_exec
--customise Configuration/DataProcessing/Utils.addMonitoring -n 10
```

step3:

```
cmsDriver.py --filein file:MC_step2_2018.root --fileout file:MC_step3_2018.root
--mc --eventcontent AODSIM --runUnscheduled --datatier AODSIM --conditions 102X_upgrade2018_reali
--step RAW2DIGI,RECO,RECO SIM,EI --nThreads 16 --era Run2_2018 --python_filename MC_step3_2018_cfg
--customise Configuration/DataProcessing/Utils.addMonitoring -n 10
```

step4:

```
cmsDriver.py --filein file:MC_step3_2018.root --fileout file:MC_step4_2018.root
--mc --eventcontent MINIAODSIM --runUnscheduled --datatier MINIAODSIM --conditions 102X_upgrade20
--step PAT --nThreads 16 --era Run2_2018 --python_filename MC_step4_2018_cfg.py --no_exec
--customise Configuration/DataProcessing/Utils.addMonitoring -n 1000
```

For 2018 Data

step2:

```
cmsDriver.py --processName MYHLT --filein root://cms-xrd-global.cern.ch//store/data/Run2018A/Sing
--fileout file:DATA_step2_2018.root --data --eventcontent RAW --datatier RAW --conditions 102X_da
--step HLT:MYHLT --python_filename DATA_step2_2018_cfg.py --era Run2_2018 --no_exec
--customise Configuration/DataProcessing/Utils.addMonitoring -n 10
```

Add:

```
inputCommands = cms.untracked.vstring(
    'keep *',
    'drop *_*_*_HLT',
),
```

to process.source

step3:

```
cmsDriver.py --filein file:DATA_step2_2018.root --fileout file:DATA_step3_2018.root
--data --eventcontent AOD --datatier AOD --conditions 102X_dataRun2_v12 --step RAW2DIGI,L1Reco,RE
```

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```
--python_filename DATA_step3_2018_cfg.py --era Run2_2018 --no_exec  
--customise Configuration/DataProcessing/Utils.addMonitoring,Configuration/DataProcessing/RecoTLR
```

or step2to3

```
cmsDriver.py --processName RECO --filein root://cms-xrd-global.cern.ch//store/data/Run2018A/Singl  
--fileout file:DATA_step3_2018.root --data --eventcontent AOD --datatier AOD --conditions 102X_da  
--step HLT:MYHLT,RAW2DIGI,L1Reco,RECO,EI --python_filename DATA_step2to3_2018_cfg_v1.py --era Run  
--customise Configuration/DataProcessing/Utils.addMonitoring,Configuration/DataProcessing/RecoTLR
```

Add:

```
inputCommands = cms.untracked.vstring(  
    'keep *',  
    'drop *_*_*_HLT',  
),
```

to process.source

step4:

```
cmsDriver.py --filein file:DATA_step3_2018.root --fileout file:DATA_step4_2018.root  
--data --eventcontent MINIAOD --datatier MINIAOD --conditions 102X_dataRun2_v12 --step PAT  
--python_filename DATA_step4_2018_cfg.py --era Run2_2018 --runUnscheduled --no_exec  
--customise Configuration/DataProcessing/Utils.addMonitoring -n 100
```

To specify the processName

```
# customisation of the process. MYHLT or RECO following the processName in step2/step2to3  
process.patTrigger.triggerResults = cms.InputTag("TriggerResults","","MYHLT")  
process.slimmedPatTrigger.triggerResults = cms.InputTag("TriggerResults","","MYHLT")  
process.patMuons.triggerResults = cms.InputTag("TriggerResults","","MYHLT")
```

-- KaiWei - 2020-06-04

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