

Trigger Developers Guide

- [ARLAS Trigger Developers Guide](#)
- [TGM on 18 Nov 2020](#) CI reference format change (Rafał Bielski)

Tips

- [DQ diagnostic tools](#)
- `CheckHists.py` : check monitoring HIST files; [Git repo](#).
- `checkxAODTrigger` : check xAOD size. See [Trigger Content in BS & xAOD](#)
- Other scripts:

<code>check-binary-files</code>	<code>checkTP.py</code>
<code>check-data.py</code>	<code>checkTag</code>
<code>check-ssh.py</code>	<code>checkTag.py</code>
<code>checkCache</code>	<code>checkTrigger</code>
<code>checkCache.exe</code>	<code>checkTrigger.py</code>
<code>checkCoolLatestUpdate.py</code>	<code>checkTriggerEDM.py</code>
<code>checkCountsAfterRerun_highETthr.sh</code>	<code>checkTriggerProcessingErrors.py</code>
<code>checkCountsAfterRerun_tunedCuts.sh</code>	<code>checkTriggerxAOD.py</code>
<code>checkDbgSymbols.sh</code>	<code>checkUPD1.py</code>
<code>checkFile</code>	<code>check_DFTests.sh</code>
<code>checkFile.py</code>	<code>check_ctp_deadtime.py</code>
<code>checkFileTrigSize_RTT.py</code>	<code>check_log.pl</code>
<code>checkJobs</code>	<code>check_msg_stat.py</code>
<code>checkJobs.py</code>	<code>check_rack_sharing.py</code>
<code>checkLTP-slave-settings</code>	<code>check_statuscode.py</code>
<code>checkMetaSG</code>	<code>check_tm</code>
<code>checkMetaSG.py</code>	<code>checklog.py</code>
<code>checkModules.sh</code>	<code>checklogTriggerTest.conf</code>
<code>checkPRWConfigFile</code>	<code>checkmodule</code>
<code>checkPRWConfigFile.exe</code>	<code>checkpolicy</code>
<code>checkPlugins.py</code>	<code>checksctp</code>
<code>checkPvss2CoolRunning.sh</code>	<code>checkxAOD</code>
<code>checkSG</code>	<code>checkxAOD.py</code>
<code>checkSG.py</code>	

Run2 code

1. Define a new algorithm:

- [Trigger/TrigAlgorithms/TrigEFMissingET/python/TrigEFMissingETConfig.py](#)

2. Define a new hypo:

- [Trigger/TrigHypothesis/TrigMissingETHypo/python/TrigMissingETHypoConfig.py](#)

3. Connect the new algorithm and hypo to a chain name:

- [Trigger/TriggerCommon/TriggerMenu/python/met/MissingETDef.py](#)

4. Add the new chain name to menu:

- [Trigger/TriggerCommon/TriggerMenu/python/menu/SignatureDicts.py](#)

5. Add a new menu to menu files:

- [Trigger/TriggerCommon/TriggerMenu/python/menu/MC_pp_v8.py](#)

6. Add a new xAOD container:

- [Trigger/TriggerCommon/TrigEDMConfig/python/TriggerEDM.py](#)

7. Need to check out `Trigger/TriggerCommon/TriggerMenuXML` to create menu xml files with the new chain.

8. After make, `HLTConfig_*.xml` files are created in `build/x86.../XML/TriggerMenuXML/` folder.

Run3 Legacy codes

TriggerMenu package

- [TriggerMenu](#)

Menu file (definition of trigger chains):

- [Physics_pp_v7 primaries.py](#)

Run3 AthenaMT codes

FEX package:

- [Trigger/TrigAlgorithms/TrigEFMissingET](#)

Configuration file:

- [python/TrigEFMissingETMTConfig.py](#)

Source codes:

- [src/*.h](#)
- [src/*.cxx](#)
- [src/components/TrigEFMissingET_entries.cxx](#)

Test scripts:

- [test/test_met_fexes.sh](#)
- [test_met_fexes_cluster.sh](#)

Configuration:

- [AlgConfigs.py](#) Algorithm configuration
- [TCPufitFex.h](#) tcPufit default configuration
- [PUSplitPufitFex.h](#) pfoPufit default configuration
- [MHTPufitFex.h](#) mhtPufit default configuration

Documentation:

- [documentation](#)
- [MET Trigger configuration guide](#)
- [MET Menu Sequences](#)

Run2 code

- [The Pufit Technique](#)

HYP0 package:

- [Trigger/TrigHypothesis/TrigMissingETHypo](#)

Configuration file:

- [python/TrigMissingETHypoConfig.py](#)
- [TrigMissingETHypoMonitoringTool.py](#) online monitoring?

Source codes:

- [src/TrigMissingETHypoAlg.h](#)
- [src/TrigMissingETHypoAlg.cxx](#)
- [src/ITrigMissingETHypoTool.h](#)
- [src/TrigMissingETHypoTool.h](#)
- [src/TrigMissingETHypoTool.cxx](#)

Online monitoring:

HYP0 monitoring:

- [TrigMissingETHypoMonitoringTool.py](#) This is currently not used?

FEX monitoring:

- [TrigEFMissingETConfig.py](#)
- [FexBase.h](#)
- [FexBase.cxx](#)
- [MonGroupBuilder.h](#)
- [MonGroupBuilder.cxx](#)

TriggerMenu package

- [Trigger/TriggerCommon/TriggerMenuMT](#)

MET configuration files:

- [python/HLTMenuConfig/MET/*.py](#) METChainConfiguration.py, METMenuSequences.py, METRecoSequences.py, GenerateMETChainDefs.py

Menu file (definition of trigger chains):

- [MC_pp_run3_v1.py](#)
- [Dev_pp_run3_v1.py](#) (used to be LS2_v1.py)
- [Physics_pp_run3_v1.py](#)
- [PhysicsP1_pp_run3_v1.py](#)

L1 threshold values:

- [ThresholdDef.py](#)

TriggerMenuXML package

- [Trigger/TriggerCommon/TriggerMenuXML](#)

XML files:

- [data/*.xml](#)

TrigMenuRulebook package

- [TrigMenuRulebook](#)

EDMConfig package

- [Trigger/TriggerCommon/TrigEDMConfig](#)

Configuration files (definition of container names):

- [python/TriggerEDMRun3.py](#)
- (current TriggerEDM.py in master)
- (TriggerEDM.py in 21.3)

TrigConfigSvc package

- [Trigger/TrigConfiguration/TrigConfigSvc](#)

Source code (add chains to Run3 testing block):

- [src/HLTConfigSvc.cxx](#)

UpgradeTest package:

- [Trigger/TrigValidation/TrigUpgradeTest](#)

MET test jobOptions and data files:

- [share/met.*.py](#)
- [share/met_*.ref](#)
- [share/slice_met.ref](#)
- [share/testHLT_MT.py](#)

L1

Bitwise simulation:

- [gFEXSysSim.h](#)
- [jFEXSysSim.h](#)

EDM

- [jFexMETRoI](#)
- [gFexGlobalRoI](#)

Run3 AthenaMT offline Monitoring code

Package:

- [Trigger/TrigMonitoring/TrigMETMonitoring](#)

Configuration file:

- [python/TrigMETMonitorAlgorithm.py](#)

JobOption file (currently not working):

- [share/TrigMETMonitorAlgorithm_jobOptions.py](#)

Source codes:

- [src/TrigMETMonitorAlgorithm.h](#)
- [src/TrigMETMonitorAlgorithm.cxx](#)
- [src/components/TrigMETMonitoring_entries.cxx](#)

Han config files:

- [DataQuality/DataQualityConfigurations/config/HLT/HLTmet](#)

Code Test

- [ATN \(Atlas Test Nightly\)](#)
- [RTT \(Run Time Test\) user guide](#)

Reconstruction (ESD->AOD)

- [Recipe for re reconstruction ESD -> AOD](#)

Algorithm

- [HLT Steering, guide for algorithm developers](#)

Menu

- [Instructions for HLT Menu Developers Check that the produced XML remains the same before/after the changes](#)

Emulation

- [MET Trigger Emulation](#)

MET trigger software for performance study in Rel 22

- [MasterPerfStudies \(Jon Burr\)](#)
- [METTrigger \(Alessandro Ruggiero\)](#)

MET trigger software for performance study (Run2)

- [METTrigOffline](#)
- [METTriggerToolBox](#)

- [NtupleMaker \(Santiago\)](#)

- [The MET Trigger Software Framework](#) talk given by Jon Burr in ASG meeting on 6 Jul 2018

Old MET code (Run1)

- [Old MET Code](#)

This topic: [Main](#) > [KHMetCode](#)

Topic revision: r36 - 2022-05-27 - [KenjiHamano](#)



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