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Data formats in RecoMET (CMSSW_7_1_X)

This topic shows the data formats in RecoMET used in CMSSW_7_1_X. The current data formats can be found at:

- [SWGGuideDataFormatRecoMET](#).

1 Configuration File

- [RecoMET.Configuration.RecoMET_EventContent_cff](#)

2 Current Data Formats

InputTag/Module (Instance name)	Containers	Description
<i>PFMET (in RECO and AOD)</i>		
pfMet	reco::PFMETCollection	MET of all reconstructed particles with the particle flow algorithm
pfChMet	reco::PFMETCollection	MET of charged particles which are reconstructed with the particle flow algorithm whose corresponding track has the dz parameter with respect to the the main vertex smaller than 0.2 cm
<i>GenMET (in RECO and AOD)</i>		
genMetTrue	reco::GenMETCollection	MET of all generated particles in simulation in their final states but excluding neutrinos, excited neutrinos, right-handed neutrinos, sneutrinos, neutralinos, gravitons, gravitinos
genMetCalo	reco::GenMETCollection	MET of all generated particles in simulation in their final states but excluding neutrinos, excited neutrinos, right-handed neutrinos, sneutrinos, neutralinos, gravitons, gravitinos and also muons
genMetCaloAndNonPrompt	reco::GenMETCollection	MET of all generated particles in simulation in their final states but excluding excited neutrinos, right-handed neutrinos, sneutrinos, neutralinos, gravitons, gravitinos and, additionally, excluding muons and neutrinos coming from the decay of gauge bosons and top quarks
<i>CaloMET (in RECO and AOD)</i>		
met	reco::CaloMETCollection	MET of all energy deposits in calorimeter towers in EB, EE, HB, HE, and HF

metNoHF	reco::CaloMETCollection	MET of all energy deposits in calorimeter towers in EB, EE, HB, and HE
metHO	reco::CaloMETCollection	MET of all energy deposits in calorimeter towers in EB, EE, HB, HE, HF, and HO
corMetGlobalMuons	reco::CaloMETCollection	MET of all energy deposits in calorimeter towers in EB, EE, HB, HE, and HF with corrections for muons
<i>MET associations (in RECO and AOD)</i>		
muonMETValueMapProducer, muCorrData	reco::MuonMETCorrectionData	information on how muons were used to correct MET and what associated MIP deposits are used
<i>HCAL Noise (RECO and AOD)</i>		
hcalnoise	reco::HcalNoiseRBX	
hcalnoise	HcalNoiseSummary	
<i>Beam Halo (RECO and AOD)</i>		
BeamHaloSummary	reco::BeamHaloSummary	

NOTE: Each MET collection contains exactly one object.

NOTE: `met` is *CaloMET* and is an instance of the class `reco::CaloMET`, which is a subclass of the class `reco::MET`.

3 Changes from the Previous Data Formats

- changed "double" to "float" in the specific data (#3529)
- added pfChMet (#3586, #3659)
- dropped tcMet (#3650)
- dropped tcMetWithPFclusters (#3626)
- turned off MET significance calculation in pfMET and CaloMET (#3661, #3662)

4 Past Data Formats

4.1 CMSSW_6_1_X - CMSSW_7_0_X

- SWGuideDataFormatRecoMET060100

4.2 CMSSW_3_11_X - CMSSW_6_0_X

- SWGuideDataFormatRecoMET031100

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This topic: CMSPublic > SWGuideDataFormatRecoMET070100

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