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L1 Trigger Digis

The table below lists the L1 trigger digi collections for different versions of CMSSW. The digis may be produced in a number of ways :

1. Running L1Emulator on simulated detector digis
2. Running RawToDigi on raw data (real raw data, or simulated)
3. Running L1 modules in HLT
4. Running L1Emulator on output of RawToDigi to validate the hardware

CMSSW 21X

Subsystem	Data	C++ Type	Label (MC)	Label (RawToDigi)	Label (HLT)	La
ECAL Trigger Primitives			simEcalTriggerPrimitives	ecalDigis		
HCAL Trigger Primitives			simHcalTriggerPrimitives	hcalDigis		
CSC Trigger Primitives			simCscTriggerPrimitiveDigis	cscDigis		
DT Trigger Primitives			simDtTriggerPrimitiveDigis	dttfDigis		
RCT			simRctDigis	gctDigis		
GCT	L1 calo candidates		simGctDigis	gctDigis	hltGctDigis	
CSC TF			simCsctfDigis	csctfDigis		
DT TF			simDtTFDigis	dttfDigis		
RPC			simRpcTriggerDigis	gtDigis		
GMT	L1 muon candidates		simGmtDigis	gtDigis	hltGtDigis	
GT		L1GtReadoutRecord	simGtDigis	gtDigis	hltGtDigis	
GT	L1 trigger-object map	L1GtObjectMap			hltL1GtObjectMap	
GT	L1 trigger bit summary	L1GtRecord	simL1GtRecord	l1GtRecord		
L1Extra	L1 Extra candidates				hltL1extraParticles	

Notes :

- digis produced in MC simulation were re-named to allow a single workflow to be run.

CMSSW 20X

Subsystem	Data	C++ Type	Label (MC)	Label (RawToDigi)	Label (HLT)
ECAL Trigger			ecalTriggerPrimitives	ecalDigis	

Primitives					
HCAL Trigger Primitives			hcalTriggerPrimitives	hcalDigis	
CSC Trigger Primitives			cscTriggerPrimitiveDigis	cscDigis	
DT Trigger Primitives			dtTriggerPrimitiveDigis	dttfDigis	
RCT			rctDigis	gctDigis	
GCT	L1 calo candidates		gctDigis	gctDigis	hltGctDigis
CSC TF			csctfDigis	csctfDigis	
DT TF			dttfDigis	dttfDigis	
RPC			rpcTriggerDigis	gtDigis	
GMT	L1 muon candidates		gmtDigis	gtDigis	hltGtDigis
GT		L1GtReadoutRecord	gtDigis	gtDigis	hltGtDigis
GT	L1 trigger-object map	L1GtObjectMap			hltL1GtObjectMap
GT	L1 trigger bit summary	L1GtRecord	l1GtRecord		
L1Extra	L1 Extra candidates				hltL1extraParticles

Notes :

- Digis produced by HLT renamed to allow HLT to be combined with digitisation in a single workflow.

CMSSW 18X

Subsystem	Data	C++ Type	Label (MC)	Label (HLT)
ECAL Trigger Primitives			ecalTriggerPrimitives	
HCAL Trigger Primitives			hcalTriggerPrimitives	
CSC Trigger Primitives			l1CscTpgEmulDigis	
DT Trigger Primitives			l1DTTPGEmulDigis	
RCT			l1RctEmulDigis	
GCT			l1GctEmulDigis	l1GctEmulDigis
CSC TF			l1CscTfEmulDigis	
DT TF			l1DtTfEmulDigis	
RPC			l1RpcEmulDigis	
GMT			l1GmtEmulDigis	l1GmtEmulDigis
GT	L1 trigger bits	L1GtReadoutRecord	l1GtEmulDigis	l1GmtEmulDigis
GT	L1 trigger-object map	L1GtObjectMap		l1GtEmulDigis
L1Extra	L1 Extra candidates			l1extraParticles

Notes :

- The GMT and GT digis produced in HLT have highly misleading names for historical reasons. Great care is required!

-- JimBrooke - 25 Feb 2008

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