

HLT menu for 5e32, third iteration

- deadline was April 7
- Rates in Hz at 5e32

Hadronic triggers

HLT	L1seed	P'ed / un'p'ed	rate (Hz)	comments	PD
inclusive jets :					
Jet30	L1_SingleJet16	p'ed			Jet
Jet60	L1_SingleJet36	p'ed			Jet
Jet80	L1_SingleJet52	p'ed			Jet
Jet110	L1_SingleJet68	p'ed			Jet
Jet150	L1_SingleJet92	p'ed			Jet
Jet190	L1_SingleJet92	p'ed			Jet
Jet240	L1_SingleJet92	p'ed		intermediate threshold	Jet
Jet370	L1_SingleJet92	un'p'ed	4		Jet
Jet370_NoJetID	L1_SingleJet92 (60U)	un'p'ed	~ 4		Jet
DiJetAve15U	L1_SingleJet16 (6U)	p'ed			Jet
DiJetAve30U	L1_SingleJet36 (20U)	p'ed			Jet
DiJetAve50U	L1_SingleJet52 (30U)	p'ed			Jet
DiJetAve70U	L1_SingleJet68 (40U)	p'ed			Jet
DiJetAve100U	L1_SingleJet92 (60U)	p'ed			Jet
DiJetAve140U	L1_SingleJet92 (60U)	p'ed			Jet
DiJetAve180U	L1_SingleJet92 (60U)	p'ed			Jet
DiJetAve300U	L1_SingleJet92 (60U)	p'ed			Jet

Multijet paths :					
DoubleJet80_ForwardBackward_v1	L1_DoubleForJet44EtaOpp	un'p'ed	1		
DoubleJet70_ForwardBackward_v1	L1_DoubleForJet32EtaOpp	p'ed			Monitoring of the above.
DoubleJet60_ForwardBackward_v1	L1_DoubleForJet32EtaOpp	p'ed			Monitoring of the above.
DoubleJet30_ForwardBackward_v1	L1_DoubleForJet32EtaOpp	p'ed			Monitoring of the above.
ExclDijet60_HFAND	L1_SingleJet36FwdVeto	un'p'ed	small		Fwd veto condition: HFCountRing1P1 < 2 && HFCountRing1M1 < 2 && HFCountRing2P1 < 2 && HFCountRing2M1 < 2 ; also have (p'ed) ExclDijet30U_HFAND for monitoring
ExclDiJet60_HFOR	L1_SingleJet36	p'ed			Monitoring.
QuadJet40	L1_QuadJet20_Central	p'ed	3		[Top] monitor for tau+quadjet
QuadJet60	L1_QuadJet20_Central	un'p'ed	4		[Exotica] for RPV gluino

QuadJet70	L1_QuadJet20_Central	unp'ed	2	[Exotica] for RPV gluino - backup of above.
QuadJet50_BTagIP	L1_QuadJet20_Central	unp'ed	5	[Top] New. The first IP-based b-tagging path.
QuadJet50_Jet40_v1	L1_QuadJet20_Central	unp'ed	3	[Top] 5 jets > 20 and 4 jets > 25 G
HT, Meff etc triggers : [the rates below account for the fact that HF is excluded from Meff, HT and				
Meff520	L1_HTT100	unp'ed	12	"backup": > Meff_460U (rate only 60% of the main...)
Meff640	L1_HTT100	unp'ed		Backup of the ab
Meff440	L1_HTT100	p'ed		Monitor of the ab
HT150	L1_HTT50	p'ed		Monitor of HT44
HT200	L1_HTT75	p'ed		Monitor of HT44
HT250	L1_HTT100	p'ed		Monitor of HT44
HT300	L1_HTT100	p'ed		Monitor of HT44
HT350	L1_HTT100	unp'ed		SUSY, Exotica.
HT400	L1_HTT100	unp'ed		
HT450	L1_HTT100	unp'ed		
HT500	L1_HTT100	unp'ed		
HT550	L1_HTT100	unp'ed		
HT150_AlphaT0p60_v1	L1_HTT75	p'ed	(6)	p=3
HT150_AlphaT0p70_v1	L1_HTT75	p'ed	(3)	p=3
HT200_AlphaT0p60_v1	L1_HTT75	unp'ed	1	
HT200_AlphaT0p65_v1	L1_HTT75	unp'ed	0.5	
HT250_AlphaT0p55_v1	L1_HTT100	unp'ed	0.6	
HT250_AlphaT0p62_v1	L1_HTT100	unp'ed	0.2	
HT300_AlphaT0p52_v1	L1_HTT100	unp'ed	1	
HT300_AlphaT0p54_v1	L1_HTT100	unp'ed	0.3	
HT350_AlphaT0p51_v1	L1_HTT100	unp'ed	1.3	
HT350_AlphaT0p53_v1	L1_HTT100	unp'ed	0.2	
HT400_AlphaT0p51_v1	L1_HTT100	unp'ed	0.65	
DiJet100_PT100	L1_SingleJet52	unp'ed	7	(L1 rate ~ 7 kHz 5e32) ; also DiJet100U_PT100 as a backup, and DiJet50U_PT50U (p'ed) as monitor seeded by L1_SingleJet36 (which has p=20 a
DiJet130_PT130	L1_SingleJet52	unp'ed		Backup of the ab
DiJet70_PT70	L1_SingleJet36	p'ed		Monitor of the ab p=20.
HT250_MHT60	L1_HTT100	unp'ed	14	SUSY, Exotica request
HT300_MHT75	L1_HTT100	unp'ed		Backup of the ab
R032_MR100	L1_DoubleJet36Central (20U)	unp'ed	10	

				"Razor" for SUS backup: R0.35_MR100 ; R0.10_MR50 and R0.35_MR100 p'
R035_MR100	L1_DoubleJet36Central (20U)	unp'ed		Backup of the ab
R032	L1_DoubleJet36Central (20U)	p'ed		Monitor of the ab
MR100	L1_DoubleJet36Central (20U)	p'ed		Monitor of the ab
HT250_DoubleDisplacedJet60_v1	L1_HTT100	unp'ed		Exotica.
Misc. (Exotica requests) :				
JetE30_NoBPTX_NoHalo_v4	L1_SingleJet20_NotBptxOR_NotMuBeamHalo	unp'ed	?	Stopped gluino, r trigger.
JetE30_NoBPTX_v2	L1_SingleJet20_NotBptxOR	p'ed	?	p ~ 80. Control trigger, o estimat of halo events in HCAL that are no identified by CSC
JetE30_NoBPTX3BX_NoHalo_v4	L1_SingleJet20_NotBptxOR_NotMuBeamHalo	unp'ed	?	Backup. Veto on BPTX in +/- 1 B
b-tag triggers:				
BTagMu_DiJet80_Mu9	L1_Mu3_Jet28_Central	unp'ed	4	
BTagMu_DiJet100_Mu9	L1_Mu3_Jet28_Central	unp'ed		
BTagMu_DiJet60_Mu7	L1_Mu3_Jet28_Central	p'ed	1	
BTagMu_DiJet20_Mu5	L1_Mu3_Jet16_Central	p'ed	1	

MET triggers

HLT	L1seed	P'ed / unp'ed	rate (Hz)	comments	PD
MET100	L1_ETM30	p'ed			METBTag
MET120	L1_ETM30	p'ed			METBTag
MET200	L1_ETM30	p'ed		Rate too high	METBTag
pfMHT150	L1_ETM50	unp'ed	~2.5	PF missing HT, New.	METBTag
MET + Jet triggers:					
DiJet60_MET45 (30U)	L1_ETM20	p'ed			METBTag
CentralJet80_MET65 (50U)	L1_ETM30	p'ed			METBTag
CentralJet80_MET80 (50U)	L1_ETM30	p'ed			METBTag
CentralJet80_MET100 (50U)	L1_ETM30	p'ed		Rate too high	METBTag
CentralJet80_MET160 (50U)	L1_ETM30	unp'ed	~2.5	Overall pure MET rate limited to no more than 5 Hz	METBTag

Muons

HLT	L1seed	P'ed / unp'ed	rate (Hz)	comments	PD
Inclusive muon paths :					
Mu30	L1_SingleMu12	unp'ed	~7	backup	Sim
Mu24	L1_SingleMu12	unp'ed	10	Backup: Mu30, ~Mu35 (~ 5 Hz)	Sim

Mu20	L1_SingleMu12	p'ed	(17)	e.g. to monitor Mu20 + jets	Sim
Mu15	L1_SingleMu10	p'ed	(48)	monitor Mu+IsoTau	Sim
Mu12	L1_SingleMu7	p'ed	(115)	intermediate th.	Sim
Mu8	L1_SingleMu3	p'ed	(600)	For fake rate studies.	Sim
Mu5	L1_SingleMu3	p'ed	(3600)	e.g. to monitor Mu5_HT120U	Sim
Mu3	L1_SingleMuOpen	p'ed	(10000)	e.g. to monitor DoubleMu3_HT	Sim
IsoMu30	L1_SingleMu12	unp'ed	3.5	backup for IsoMu17	Sim
IsoMu24	L1_SingleMu12	unp'ed	5	backup for IsoMu17	Sim
IsoMu17	L1_SingleMu10	unp'ed	11	backup: IsoMu30	Sim
IsoMu15	L1_SingleMu10	p'ed	(16)	1 Hz with p=16 . could be unp'ed at lower lumi	Sim
IsoMu12	L1_SingleMu7	p'ed	(40)	1 Hz with p=40	Sim
Quarkonia paths:					
DoubleMu3_JPsi_v1	L1_DoubleMu0	unp'ed	12.3	Mass window: 2.5 - 4.0	M
DoubleMu2_Bs_v1	L1_DoubleMu0	unp'ed	3.2	Mass window: 4.8 - 6.0	M
DoubleMu3_Quarkonium_v1	L1_DoubleMu0	p'ed	15 ?	p=2 ? Mass window: 1.5 - 14. Rate is ~ 30 Hz without prescale ?	M
DoubleMu3_Upsilon	L1_DoubleMu0	unp'ed	9	9 Hz at 5e32	M
DoubleMu3_LowMass	L1_DoubleMu0	unp'ed	15	15 Hz at 5e32	M
+ several prescaled triggers. e.g. MuX_L2Mu0 seeded by L1_DoubleMu0New, MuX_TrackY seeded by (p'ed) L1_SingleMu0 or Mu3					
Mu3_Track3_JPsi	L1_SingleMu3	p'ed		Mass window: 2.7 - 3.5. 2 Hz ?	M
Mu7_Track5_JPsi	L1_SingleMu7 ?	p'ed		Mass window: 2.7 - 3.5 2 Hz ?	M
Mu5_L2Mu2_JPsi	L1_DoubleMu_0_5	p'ed		Mass window: 1.8 - 4.5. 1 Hz ?	M
Mu5_Track2_JPsi	L1_SingleMu3	p'ed	(120)		M
Multi-muon paths:					
HLT_Mu5_TKMuo0_OST_Jpsi_Tight_B5Q7	L1SingleMu5_eta1p5_Q7	unp'ed ?	3	For DT monitoring [could also be of interest for QQ, for eff. studies]	Commiss
DoubleMu7	L1_DoubleMu3	unp'ed	6	Z(mumu).	Dou
DoubleMu6	L1_DoubleMu3	unp'ed	10	backup: DoubleMu7 then DoubleMu9	Dou

DoubleMu3	L1_DoubleMu0	p'ed	1	1 Hz with p=80 . Could be unp'ed at lower lumi	Dou
TripleMu5	L1_DoubleMu3	unp'ed	< 1		Dou
DoubleMu4_Acoplanarity03_v1	L1_DoubleMu3	unp'ed	5	Require that the 2 muons are back-to-back in phi at the HLT	Dou
L2DoubleMu23_NoVertex_v1	L1_DoubleMu5	unp'ed	~1	for exotica	Dou
Paths for muon monitoring:					
L1SingleMuOpen_v1	L1_SingleMuOpen	p'ed		In Comm. PD	Commiss
L1SingleMuOpen_DT	L1_SingleMuOpen	p'ed		Restrict to the DT acceptance. In Comm. PD	Commiss
L1SingleMu10_v1	L1_SingleMu10	p'ed		SingleMu	
L2Mu10_v1	L1_SingleMu10	p'ed			Sim
L1SingleMu20	L1_SingleMu20	p'ed		Needed ???	Sim
L2Mu20	L1_SingleMu10	p'ed		Needed ???	Sim

Electrons

HLT	L1seed	P'ed / unp'ed	rate (Hz)	comments	
Single electron paths :					
Ele27_CaloIdVT_CaloIsoT_TrkidT_TrkIsoT_v1	L1_SingleEG15	unp'ed	15	Backup: Ele32_EleId_Isol, "TighterEleIdIsol" from 2e32; rate would be 15 Hz for a 27 GeV th.	Singl
Ele32_CaloIdVT_CaloIsoT_TrkidT_TrkIsoT_v1	L1_SingleEG15	unp'ed	15	Backup of the above.	Singl
Ele45_CaloIdVT_TrkidT_v1	L1_SingleEG20	unp'ed	5	[EXO] Backup: Ele60_EleId, "TighterEleId" from 2e32; rate would be 15-20 Hz for a 32 GeV th.	Singl
Ele90_NoSpikeFilter_v1	L1_SingleEG20	unp'ed	8	No id, no isol - Exotica	Singl
+ Other prescaled Ele paths with looser requirements and/or lower thresholds, down to Ele10. Some of them could be u we run at a lower lumi.					
Double electron paths :					
Ele17_CaloIdL_CaloIsoVL_Ele8_CaloIdL_CaloIsoVL_v1	L1_SingleEG12	unp'ed	15	[Higgs, SUSY,] will evolve to EG12+EG5 L1 seed.	Doubl
Ele17_CaloIdT_TrkidVL_CaloIsoVL_TrkIsoVL_ Ele8_CaloIdT_TrkidVL_CaloIsoVL_TrkIsoVL_v1	L1_SingleEG12	unp'ed		Backup of the above. For 5e33.	Doubl
Ele17_CaloIdL_CaloIsoVL_Ele15_HFL_v1	L1_SingleEG12	unp'ed	2	[EW] ECAL+HF, Z -> ee increased acceptance.	Doubl

Ele32_CaloIdL_CaloIsoVL_SC17_v1	L1_SingleEG12	unp'ed	7	Z sample, also T&P sample (for electrons >20GeV)	DoubleEle
DoubleEle10_CaloIdL_TrkIdVL_Ele10_v1	L1_TripleEG5	unp'ed	1	SUSY	DoubleEle
TripleEle10_CaloIdL_TrkIdVL_v1	L1_TripleEG5	unp'ed	1	SUSY, higher lumi	DoubleEle

Utility electron paths :					
Ele17_CaloIdVT_CaloIsoVT_TrkIdT_TrkIsoVT_SC8_Mass30_v1	L1_SingleEG12	unp'ed	5	Z tag and probe (for electrons 10-20 GeV)	DoubleEle
Ele8_v1	L1_SingleEG5	p'ed	1	for very loose electron fake rates (same cuts as mu-ele triggers)	DoubleEle
Ele8_CaloIdL_CaloIsoVL_v1	L1_SingleEG5	p'ed	1	main trigger for electron fake rates (same cuts as di-ele)	DoubleEle
Ele8_CaloIdL_TrkIdVL_v1	L1_SingleEG5	p'ed	1	for fake rate studies	DoubleEle
Ele17_CaloIdL_CaloIsoVL_v1	L1_SingleEG12	p'ed	1	second trigger for electron fake rates, for hi PT range (same cuts as di-ele)	DoubleEle
Ele15_CaloIdVT_CaloIsoT_TrkIdT_TrkIsoT_v1	L1_SingleEG12	p'ed	1	Monitor for e+tau trigger.	Tau
Ele8_CaloIdL_CaloIsoVL_Jet40_v1	L1_EG5_Jet36	p'ed	1	for electron fake rates (same cuts as di-ele).	DoubleEle
Photon20_CaloIdVT_IsoT_Ele8_CaloIdL_CaloIsoVL_v1	L1_SingleEG12	p'ed	(5)	for	DoubleEle

				electron fake rates (same cuts as di-ele)	
L1SingleEG5	L1_SingleEG5	p'ed	1	ECAL DPG. p = 300 (L1) x 1000 (HLT) for a rate of ~ 1 Hz.	Commissi

Photons

HLT	L1seed	P'ed / unp'ed	rate (Hz)	comments	
Single photon paths :					
Photon75_CaloIdVL_IsoL_v1	L1_SingleEG20	unp'ed	5	Rate would be ~ 20 Hz for a 55 GeV th.	PI
Photon75_CaloIdVL_v1	L1_SingleEG20	p'ed	1	P'ed version of Id+Iso trg. Rate ~ 1 Hz with p=15	PI
Photon125_NoSpikeFilter_v1	L1_SingleEG20	unp'ed	< 3	[EXO] No CaloEleId or Isol	PI
Photon30_CaloIdVL_v1	L1_SingleEG15	p'ed			PI
Photon20_CaloIdVL_IsoL_v1	L1_SingleEG12	p'ed	(1000)	SUSY RA6. 1k at 1e33. Prescale to 0.5 Hz	PI
Photon30_CaloIdVL_IsoL_v1	L1_SingleEG15	p'ed		Photon	PI
Photon50_CaloIdVL_IsoL_v1	L1_SingleEG20	p'ed	20	SUSY RA6. 20 Hz at 1e33	PI
Double Photons:					
Photon32_CaloIdL_Photon26_CaloIdL_v1	L1_SingleEG12	unp'ed	5	[SUSY] susy RA3 signal trigger, nonisolated backup to Hgg	PI
Photon26_IsoVL_Photon18_v1	L1_SingleEG12	unp'ed	15	[Higgs] Main 5E32 trigger	PI
Photon26_CaloIdL_IsoVL_Photon18_v1	L1_SingleEG12	unp'ed	8	[Higgs] higher lumi	PI

Photon26_IsoVL_Photon18_IsoVL_v1	L1_SingleEG12	unp'ed		[Higgs] higher lumi	PI
Photon26_CaloIdL_IsoVL_Photon18_CaloIdL_IsoVL_v1	L1_SingleEG12	unp'ed	3.5	[Higgs] higher lumi	PI
Photon26_Photon18_v1	L1_SingleEG12	p'ed	1	[Higgs] monitor. 1 Hz with p=50	PI
DoublePhoton33_v1	L1_SingleEG20	unp'ed	5	[Exotica] no ID	PI
DoublePhoton5_IsoVL_CEP_v1	L1_DoubleEG2_FwdVeto	unp'ed	few Hz	[FWD]	PI
Photon20_R9Id_Photon18_R9Id_v2	L1_SingleEG12	unp'ed			PI
Photon26_CaloIdL_IsoVL_Photon18_R9Id	L1_SingleEG12	unp'ed			PI
Photon26_R9Id_Photon18_CaloIdL_IsoVL	L1_SingleEG12	unp'ed			PI

Tau triggers

HLT	L1seed	P'ed / unp'ed	rate (Hz)	comments	confDB	OpenHLT	PD
IsoPFTau35_Trk20_MET45	L1_SingleTau52 OR L1_SingleJet68	unp'ed	4		%OK%	%WORK%	Tau
DoubleIsoPFTau20_Trk5	L1_DoubleTauJet28 (14U) OR L1_DoubleJet52 (30U)	unp'ed	10	Z to tautau.	%OK%	%WORK%	Tau

Cross-triggers with a muon or an electron/photon or a tau

HLT	L1seed	P'ed / unp'ed	rate (Hz)	
Electron + Had :				
Ele10_CaloIdL_CaloIsoVL_TrkIdVL_TrkIsoVL_HT200_v1	L1_EG5_HTT75	unp'ed	8	[SUSY]
Ele10_CaloIdT_CaloIsoVL_TrkIdT_TrkIsoVL_HT200_v1	L1_EG5_HTT75	unp'ed	4	[SUSY].
DoubleEle8_CaloIdL_TrkIdVL_HT160_v1 (100U)	L1_DoubleEG5_HTT50	unp'ed	2	[SUSY]
DoubleEle8_CaloIdT_TrkIdVL_HT160_v1 (100U)	L1_DoubleEG5_HTT50	unp'ed	1	[SUSY]
Ele25_CaloIdVT_TrkIdT_CentralJet40_BTagIP_v1	L1_SingleEG12	unp'ed	3.4	Single to
Ele25_CaloIdVT_TrkIdT_CentralTriJet30_v1	L1_SingleEG12	unp'ed	4.7	Top.
Ele25_CaloIdVT_TrkIdT_CentralJet30_v1	L1_SingleEG12	p'ed	(43)	Top, mo
Ele25_CaloIdVT_TrkIdT_CentralDiJet30_v1	L1_SingleEG12	p'ed	(25)	Top, mo
Photon + Had :				
Photon70_CaloIdL_HT200	L1_SingleEG20	unp'ed	8	[SUSY]
Photon70_CaloIdL_HT300	L1_SingleEG20	unp'ed	3	[SUSY].
Photon60_CaloIdL_HT200	L1_SingleEG20	p'ed	(2)	[SUSY].
Photon70_CaloIdL_MHT30	L1_SingleEG20	unp'ed	7	[SUSY]
Photon70_CaloIdL_MHT50	L1_SingleEG20	unp'ed	4	[SUSY].
Electron/Photon + Muon				
Mu15_Photon20_CaloIdL_v1	L1_Mu3_EG5	unp'ed	~3	[Exotica]
Mu15_DoublePhoton15_CaloIdL_v1	L1_Mu3_EG5	unp'ed	< 1	[Exotica]
Mu17_Ele8_CaloIdL_v1	L1_SingleMu7	unp'ed	2.5	[SUSY, seed to L needed..
Mu8_Ele17_CaloIdL_v1	L1_Mu3_EG5	unp'ed	4	

				[SUSY, on TSG Loose M
Mu10_Ele10_CaloIdL_v1	L1_SingleMu7	unp'ed	~ 2	[SUSY, seed to L needed..
DoubleMu5_Ele8_v1	L1_Mu3_EG5	unp'ed	< 1	[SUSY, w.r.t. Ele
DoubleMu5_Ele8_CaloIdL_TrkIdVL_v1	L1_Mu3_EG5	unp'ed	< 1	Backup o
Mu5_DoubleEle8_v1	L1_Mu3_EG5	unp'ed	~3	[SUSY, w.r.t. Ele
Mu5_Ele8_CaloIdL_TrkIdVL_Ele8_v1	L1_Mu3_EG5	unp'ed	< 1	Backup o
Mu8_Photon20_CaloIdVT_IsoT_v1	L1_Mu3_EG5	unp'ed	0.2	For fake
Muon + Had :				
IsoMu17_CentralJet40_BTagIP_v1	L1_Mu7_Jet20_Central	unp'ed	0.2	Single-to
Mu17_CentralJet40_BTagIP_v1	L1_Mu7_Jet20_Central	p'ed	5	e.g. p=20 backgrou
Mu17_DiCentralJet30_v1	L1_Mu7_Jet20_Central	unp'ed	(8.7) ?	Top.
Mu17_TripleCentralJet30_v1	L1_Mu7_Jet20_Central	unp'ed	2.3	Top
Mu17_CentralJet30_v1	L1_Mu7_Jet20_Central	p'ed	(17)	Top, mo
Mu5_HT200 (140U)	L1_Mu0_HTT50	unp'ed	5	Backup:
Mu8_HT200 (140U)	L1_Mu0_HTT50	unp'ed		Backup o
Mu3_Ele8_CaloIdL_TrkIdVL_HT160_v1 (100U)	L1_Mu0_HTT50	unp'ed	~3 ?	[SUSY]
Mu3_Ele8_CaloIdT_TrkIdVL_HT160_v1	L1_Mu0_HTT50	unp'ed		Backup o
DoubleMu3_HT160 (100U)	L1_Mu0_HTT50	unp'ed	2	Backup:
DoubleMu3_HT200	L1_Mu0_HTT50	unp'ed		Backup o
Mu8_Jet40_v1	L1_Mu3_Jet20_Central	p'ed	1	1 Hz w
Muon + Tau:				
HLT_IsoMu12_LooseIsoPFTau10	L1_SingleMu7	unp'ed	8	
HLT_Mu15_LooseIsoPFTau20	L1_SingleMu10	unp'ed	7	
HLT_IsoMu15_LooseIsoPFTau20	L1_SingleMu10	unp'ed	1	Backup. data taki
Electron + Tau:				
Ele15_CaloIdVT_CaloIsoT_TrkIdT_TrkIsoT_LooseIsoPFTau15_v1	L1_SingleEG12	unp'ed	7.3	Main trig tau + e.
Ele15_CaloIdVT_CaloIsoT_TrkIdT_TrkIsoT_LooseIsoPFTau20_v1	L1_SingleEG12	unp'ed	4.6	Backup o
Ele15_CaloIdVT_TrkIdT_LooseIsoPFTau15_v1	L1_SingleEG12	p'ed	(18)	Monitori
Jet + Tau:				
QuadJet40_IsoPFTau40_v1	L1_QuadJet20_Central	unp'ed	5	[Top]. N QuadJet is not via CPU).

, ZeroBias and Commissioning

All paths below were prescaled at the HLT, unless explicitly stated otherwise.

See also Stephanie's twiki with DPG trigger needs.

Paths already implemented in 5e32 menu:

For the Commissioning PD:

HLT_BeamGas_BSC_v1	L1_BeamGas_Bsc	Need 2-3 Hz
HLT_BeamGas_HF_v1	L1_BeamGas_Hf	Need 1 Hz.
HLT_L1_PreCollisions_v1	L1_PreCollisions	Few Hz's before collisions.
HLT_L1_Interbunch_BSC_v1	L1_InterBunch_Bsc	Need ~ 0.1 Hz. For afterglow studies.
HLT_IsoTrackHE_v3	L1_SingleJet52	~ 5 Hz ?
HLT_IsoTrackHB_v2	L1_SingleJet52	~ 5 Hz ?
HLT_Mu5_TkMu0_OST_Jpsi_Tight_B5Q7_vX	L1_SingleMu5_Eta1p5_Q80	~ 3 Hz. For DTs
HLT_L1SingleMuOpen	L1_SingleMuOpen	For DTs.
HLT_L1SingleMuOpen_DT	L1_SingleMuOpen	For DTs.
HLT_L1SingleEg5	L1_SingleEG5	For ECAL DPG. Needs 10 Hz at the beginning.
HLT_Activity_Ecal_SCXXX	-	For ECAL DPG. Needs 1 Hz, to monitor the turn-on of L1EG.

For the Minimum Bias PD :

HLT_L1Tech_BSC_minBias_OR_v1	TT4 and L1Tech_BSC_minBias_OR	Need 10 Hz.
HLT_PixelTracks_Multiplicity125_v1	L1_ETT180, will change	
HLT_PixelTracks_Multiplicity110_v1	L1_ETT180, will change	
HLT_Random_v1	-	Need 5 Hz ?
HLT_ZeroBias_v1	-	Need 5 Hz.
HLT_Physics_v1	-	That's a L1A pass-through that excludes random and calibration L1As. For HLT CPU studies, PD development (rates), ECAL payload monitoring, etc.. Need 5 Hz. More would be welcome...

For the Cosmics PD:

HLT_L1Tech_BSC_halo_v1		
HLT_BeamHalo_v1		
HLT_L1TrackerCosmics_v2		
HLT_RegionalCosmicTracking_v1		
HLT_L1MuOpen_AntiBPTX_v2		
HLT_L3MuonsCosmicTracking_v1		

Alca and Calibration streams :

- HLT_Calibration_v1
- HLT_EcalCalibration_v1
- HLT_HcalCalibration_v1
- AlCa_EcalPi0_v2
- AlCa_EcalEta_v2
- AlCa_EcalPhiSym_v2
- AlCa_RPCMuonNoHits_v2

- AlCa_RPCMuonNoTriggers_v2
- AlCa_RPCMuonNormalisation_v2

-- EmmanuellePerez - 12-Apr-2011

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