

The following is a list of python configurables which live in HLT2, the lines they contain, their authors, and suggestions for what might happen to these lines in the 2015 cleanup campaign.

Global Comments

- Almost all charm lines use a GEC on < 180 tracks in the event; we should test if this could be removed.

List of configurables, lines, authors, and potential actions

Configurable	Authors	Line content	WG responsible	
Hlt2B2DXLines	Jacopo Nardulli and Chris Thomas	Pre-topological trigger B->DX trigger lines	B2OC	O
Hlt2B2HHLines	Angelo Carbone and Stefano Perazzini	B->hh exclusive trigger, reconstructs everything as B0->pipi	B2noC	E li IF
Hlt2B2HHLTUnbiasedLines	Uli Kerzel	NeuroBayes based Bs->KK lifetime unbiased line	B2noC	O li d
Hlt2B2HHPi0Lines	Regis Lefevre	Exclusive lines for B->PiPiPi0 with merged or resolved Pi0s	B2noC	C tu
Hlt2B2JpsiXLines	Jibo He, Gerhard Raven, Greig Cowan	Exclusive lines for B->JpsiX, seemingly mostly used for Bc decays towards the end of Run II	B2CC	T a ur
Hlt2B2KsHHLines	Jussara Miranda	Exclusive lines for B->KsHH	B2noC	O
Hlt2B2KstareeLines	Jibo He	Pre-topological trigger B->K*ee lines	RD	O
Hlt2B2LLXLines	Patrick Koppenburg	Pre-topological trigger B->Kll lines	RD	O ex w se
Hlt2B2PhiXLines	KIM Young Min	Pre-topological trigger exclusive Bs->PhiPhi line	B2noC	C co ho B
Hlt2B2XGammaLines	Fatima Soomro, Albert Puig	Exclusive Bs->XGamma lines	RD	E li H
Hlt2CEPLines	Chris Thomas	CEP lines	QEE	A
Hlt2ChargedHyperon2LambdaHLines	Sam Gregson and Mike Sokoloff	Exclusive triggers for Omega --> Lambda, K and Xi --> Lambda, Pi	Charm	A
Hlt2CharmHadD02HHHHDstLines	Tom Hampson, Benoit Viaud	Exclusive triggers for D* tagged D->4H decays which DO depend on HLT1 lines	Charm	U H ne
Hlt2CharmHadD02HHHHDstNoHlt1Lines	Tom Hampson,	Exclusive triggers for D* tagged D->4H decays which do NOT depend on HLT1	Charm	R H

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	Benoit Viaud	lines		H ei al
Hlt2CharmHadD02HHKsLines	Mat Charles, Patrick Spradlin, Mike Sokoloff	Exclusive D->KsHH lines	Charm	A
Hlt2CharmHadD02HHLines	Patrick Spradlin	Exclusive D->hh lines	Charm	A li
Hlt2CharmHadD02HHPi0Lines	Mika Vesterinen	Exclusive D->hhpi0 lines	Charm	A gi
Hlt2CharmHadD02HHXDstLines	Vladimir Gligorov	Inclusive D* trigger	Charm	A M H w
Hlt2CharmHadD2HHHKsLines	Mat Charles, Patrick Spradlin, Mike Sokoloff, Hamish Gordon	Exclusive triggers for D->HHHKS	Charm	A
Hlt2CharmHadD2HHHLines	Patrick Spradlin	Exclusive triggers for D->3H	Charm	A P m
Hlt2CharmHadD2KS0HLines	Sam Gregson	Exclusive triggers for D->KS0H	Charm	A H
Hlt2CharmHadD2KS0KS0Lines	Vladimir Gligorov	Exclusive trigger for D->KS0KS0	Charm	A
Hlt2CharmHadLambdaC2LambdaHLines	Sam Gregson	Exclusive triggers for Lc->LambdaH	Charm	A H
Hlt2CharmHadLambdaCLines	Patrick Spradlin	Exclusive triggers for Lc->HHH	Charm	A H
Hlt2CharmHadMinBiasLines	Vladimir Gligorov	Exclusive charm lines for running on minimum bias events, used for lifetime unbiased D->hh triggering in Run 1, and lines with soft cuts for cross-section measurements for D->3h/Lc->3h	Charm	O ch
Hlt2CharmHadTwoBodyForD02HHHH	Sandra Amato, Carlo Gobel, Patrick Spradlin, Benoit Viaud	Two-body combiner which makes seeds for higher multiplicity lines	Charm	U H H H be ch sh st
Hlt2CharmHadTwoBodyForMultiBody	Sandra Amato, Carlo Gobel, Patrick Spradlin	Precursor of Hlt2CharmHadTwoBodyForD02HHHH	Charm	O
Hlt2CharmRareDecayLines		Exclusive lines for D->mumu	Charm	

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	Alex Kozslinsky			
Hlt2CharmSemilepD02HHMuMuLines	Benoit Viaud, Olga Kochebina	Exclusive lines for D->HHMuMu	Charm	A H co m H
Hlt2CharmSemilepD2HMuMuLines	Benoit Viaud, Olga Kochebina	Exclusive lines for D->HMuMu	Charm	A H co m H
Hlt2CharmSemilepTwoMuonForMuMuHad	Sandra Amato, Carlo Gobel, Patrick Spradlin, Benoit Viaud	Recoes MuMu pairs as input to the HMuMu and HHMuMu lines	Charm	U H H to ch sh st
Hlt2CharmSemilepD02HMuNuLines	Grant McGregor	Exclusive D->XMuNu lines	Charm	A
Hlt2CommissioningLines	Gerhard Raven	Contains some technical lines	HLT	A
Hlt2D2XGammaLines	Fatima Soomro	Exclusive D->XGamma lines in the style of the B->XGamma lines	Charm	N if b
Hlt2diphotonDiMuonLines	Dermot Moran	Low multiplicity exclusive lines for Drell Yan and related studies	QEE	A
Hlt2DisplVerticesLines	Victor Coco, Neal Gauvin, Pieter David	Exclusive triggers for long lived exotica	QEE	A
Hlt2Dst2D2XXLines	F. Dettori, A. Contu	Exclusive lines for D*-tagged D->mumu/emu/etc. lines and control modes	Charm	A
Hlt2ExpressLines	Johannes Albrecht	Lines for the express stream	HLT	W II lo
Hlt2HighPtJetsLines	Marcin Kucharczyk	Exclusive lines for jet physics	QEE	A re
Hlt2InclusiveDiElectronLines	Jibo He, Will Barter	Dielectron lines for Drell Yan, production, and displaced Psi->ee studies	QEE, B&Q, B2CC	A w m
Hlt2InclusiveDiMuonLines	Johannes Albrecht, Leandro de Paula, Antonio Perez-Calero	Dimuon lines for all the different X->MuMu physics we do, despite name also hosts the multi-muon lines	B2CC, B&Q, QEE	A m co
Hlt2InclusiveDiPhiLines	Sergey Barsuk, Jibo He	Exclusive Charmonium -> PhiPhi lines	B&Q	A
Hlt2InclusiveDiProtonLines	Sergey Barsuk, Jibo	Exclusive Charmonium -> pp lines	B&Q	A

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	He			
Hlt2InclusiveElectronLines	Jibo He, Will Barter	Single electron, electron track, and electron-hadron DrellYan lines	QEE, Semileptonic	A w m
Hlt2InclusiveMuonLines	Johannes Albrecht, Antonio Perez-Calero	Single muon, mu-track, and tracking efficiency lines	QEE, Semileptonic	A w is w m
Hlt2InclusivePhiLines	Kim Vervink	Inclusive Phi line	B2CC, B2noC, RD	A de H
Hlt2InclusivePhiRun2Lines	Matt Kenzie	Inclusive Phi lines for Run II	B2CC, B2noC, RD	D in
Hlt2KshortToMuMuPiPi	Mike Sokoloff	Exclusive lines for KS->mumupipi	RD	A H su N
Hlt2TwoMuonForKshortToMuMuPiPi	Mike Sokoloff	Dimuon combiner used in KS->mumupipi	RD	U
Hlt2SecondLoopExampleLine	Vladimir Gligorov	Pedagogical	HLT	S
Hlt2TopologicalLines	Mike Williams	All the topological triggers go here	B2OC, B2noC, B2CC, RD, Semileptonic	A
Hlt2MuNTrackLines	Alex Shires	Pre-topological trigger Mu+NTracks inclusive lines	RD	O
Hlt2RadiativeTopoLines	Albert Puig	Topological trigger lines which can use a photon as one of the input particles	RD	A

-- VladimirGligorov - 2015-01-22

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