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# 25ns run

## Trigger

### Trigger statistics on Fill 2186 [↗](#)

Hlt2 eff is 120.232%. Assuming it is already applied at 3000 kHz. Using 5936 events. Normalisation factor is 0.418994

Category	Selection	Rate	weighted
<b>Hlt1Muon</b>		1464±16	
<b>Hlt1Electron</b>		39±4	
<b>Track</b>		1810±14	
<b>Hlt1Photon</b>		290±10	
<b>Hlt1Com</b>		2±1	
Unknown	Hlt2PassThrough	6±2	6±2
Unknown	Hlt2Transparent	2±1	2±1
Unknown	Hlt2Lumi		
Unknown	Hlt2Forward	4±1	2±1
Unknown	Hlt2DebugEvent	4±1	4±1
Unknown	Hlt2ExpressJPsi		
Unknown	Hlt2ExpressJPsiTagProbe		
Unknown	Hlt2ExpressLambda		
Unknown	Hlt2ExpressKS		
Unknown	Hlt2ExpressDs2PhiPi		
Unknown	Hlt2ExpressBeamHalo		
Unknown	Hlt2ExpressDStar2D0Pi		
Unknown	Hlt2ErrorEvent		
<b>Unknown</b>		145±8	
Electron	Hlt2SingleTFElectron	5±1	3±1
Electron	Hlt2SingleElectronTFLowPt		
Electron	Hlt2SingleElectronTFHighPt	0.4±0.4	0.4±0.4
Electron	Hlt2SingleTFVHighPtElectron	15±3	13±2
Electron	Hlt2DiElectronHighMass		
Electron	Hlt2DiElectronB	2±1	2±1
Electron	Hlt2LowMultElectron	6±2	6±2
Electron	Hlt2LowMultElectron_nofilter	2±1	2±1
<b>Electron</b>		29±3	
Exclusive	Hlt2B2HHLTUnbiased	8±2	8±2
Exclusive	Hlt2B2HHLTUnbiasedDetached	5±1	4±1
Exclusive	Hlt2Bs2PhiGamma	7±2	5±1
Exclusive	Hlt2Bs2PhiGammaWideBMass	1±1	0.6±0.5
Exclusive	Hlt2Bd2KstGamma	22±3	15±2
Exclusive	Hlt2Bd2KstGammaWideKMass	2±1	1±1
Exclusive	Hlt2Bd2KstGammaWideBMass	3±1	1±1
Exclusive	Hlt2B2HH	10±2	7±2
Exclusive	Hlt2DiProton	16±3	16±3
Exclusive	Hlt2DisplVerticesHighMassSingle	0.4±0.4	0.1±0.1
Exclusive	Hlt2DisplVerticesDouble	2±1	1±1

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Exclusive	Hlt2DisplVerticesHighFDSingle	1±1	0.3±0.2
Exclusive	Hlt2DisplVerticesSingle	0.4±0.4	0.2±0.2
Exclusive	Hlt2DisplVerticesSinglePostScaled		
Exclusive	Hlt2DisplVerticesDoublePostScaled		
Exclusive	Hlt2DisplVerticesSingleHighMassPostScaled	3±1	3±1
Exclusive	Hlt2DisplVerticesSingleHighFDPostScaled	5±1	3±1
Exclusive	Hlt2DisplVerticesSingleMVPostScaled	0.4±0.4	0.4±0.4
Exclusive	Hlt2DisplVerticesSingleDown		
Exclusive	Hlt2B2HHPi0_Merged	5±2	3±1
<b>Exclusive</b>		82±6	
Topo	Hlt2Topo2BodySimple	98±6	35±3
Topo	Hlt2Topo3BodySimple	98±6	20±2
Topo	Hlt2Topo4BodySimple	155±8	39±3
Topo	Hlt2Topo2BodyBBDT	268±10	104±5
Topo	Hlt2Topo3BodyBBDT	383±12	145±6
Topo	Hlt2Topo4BodyBBDT	303±11	103±5
Topo	Hlt2TopoMu2BodyBBDT	168±8	68±4
Topo	Hlt2TopoMu3BodyBBDT	193±9	70±4
Topo	Hlt2TopoMu4BodyBBDT	138±7	46±3
Topo	Hlt2TopoE2BodyBBDT	81±6	22±2
Topo	Hlt2TopoE3BodyBBDT	102±6	30±3
Topo	Hlt2TopoE4BodyBBDT	84±6	27±3
Topo	Hlt2TopoRad2BodyBBDT	217±9	78±4
Topo	Hlt2TopoRad2plus1BodyBBDT	382±12	207±8
Topo	Hlt2RadiativeTopoTrackTOS	140±7	44±3
Topo	Hlt2RadiativeTopoPhotonL0	220±9	111±6
<b>Topo</b>		1254±16	
Phi	Hlt2IncPhi	46±4	36±4
Phi	Hlt2IncPhiSidebands	1±1	0.7±0.5
<b>Phi</b>		47±4	
Charm	Hlt2CharmHadD02HHKsLL	55±5	40±4
Charm	Hlt2Dst2PiD02PiPi	1±1	0.8±0.5
Charm	Hlt2Dst2PiD02KPi	3±1	3±1
Charm	Hlt2CharmHadD02HH_D02PiPi	15±3	9±2
Charm	Hlt2CharmHadD02HH_D02PiPiWideMass	10±2	4±1
Charm	Hlt2CharmHadD02HH_D02KK	66±5	42±4
Charm	Hlt2CharmHadD02HH_D02KKWideMass	29±3	13±2
Charm	Hlt2CharmHadD02HH_D02KPi	142±7	92±6
Charm	Hlt2CharmHadD02HH_D02KPiWideMass	24±3	10±1
Charm	Hlt2CharmHadLambdaC2KPPi	103±6	58±4
Charm	Hlt2CharmHadD2KS0H_D2KS0Pi	5±1	4±1
Charm	Hlt2CharmHadD2KS0H_D2KS0K	3±1	2±1
Charm	Hlt2CharmHadMinBiasLambdaC2KPPi		
Charm	Hlt2CharmHadMinBiasD02KPi		
Charm	Hlt2CharmHadMinBiasD02KK		
Charm	Hlt2CharmHadMinBiasDplus2hhh		
Charm	Hlt2CharmHadMinBiasLambdaC2LambdaPi		
Charm	Hlt2CharmHadD2HHH	205±9	131±7
Charm	Hlt2CharmHadD2HHHWideMass	19±3	8±1
Charm	Hlt2CharmHadD02HHHH	46±4	26±3

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Charm	Hlt2CharmHadD02HHHHWideMass	6±2	2±1
<b>Charm</b>		569±14	
Leptons	Hlt2Dst2PiD02MuMu	3±1	0.8±0.4
Leptons	Hlt2Dst2PiD02KMu	2±1	1±1
Leptons	Hlt2CharmRareDecayD02MuMu	2±1	1±1
Leptons	Hlt2MuonFromHLT1		
Leptons	Hlt2SingleMuon	401±12	368±12
Leptons	Hlt2SingleMuonHighPT	31±4	23±3
Leptons	Hlt2SingleMuonVHighPT	9±2	4±1
Leptons	Hlt2SingleMuonLowPT	1±1	0.5±0.4
Leptons	Hlt2DiProtonLowMult	517±13	16±3
Leptons	Hlt2CharmSemilepD02HMuNu_D02KMuNuWS	1±1	0.6±0.5
Leptons	Hlt2CharmSemilepD02HMuNu_D02PiMuNuWS	0.4±0.4	0.4±0.4
Leptons	Hlt2CharmSemilepD02HMuNu_D02KMuNu	9±2	5±1
Leptons	Hlt2CharmSemilepD02HMuNu_D02KMuNuTight	76±6	57±5
Leptons	Hlt2CharmSemilepD02HMuNu_D02PiMuNu	6±2	4±1
Leptons	Hlt2TFBc2JpsiMuX	2±1	1±1
Leptons	Hlt2TFBc2JpsiMuXSignal	1±1	0.5±0.3
Leptons	Hlt2diPhotonDiMuon	14±2	14±2
Leptons	Hlt2LowMultMuon	8±2	8±2
Leptons	Hlt2LowMultHadron	7±2	7±2
Leptons	Hlt2LowMultHadron_nofilter	1±1	1±1
Leptons	Hlt2LowMultPhoton	2±1	2±1
Leptons	Hlt2CharmSemilepD2HMuMu	6±2	3±1
Leptons	Hlt2CharmSemilepD2HMuMuWideMass	0.4±0.4	0.1±0.1
Leptons	Hlt2DiMuon		
Leptons	Hlt2DiMuonLowMass		
Leptons	Hlt2DiMuonJPsi	33±4	22±3
Leptons	Hlt2DiMuonJPsiHighPT	82±6	63±5
Leptons	Hlt2DiMuonPsi2S	2±1	2±1
Leptons	Hlt2DiMuonPsi2SHighPT	8±2	6±1
Leptons	Hlt2DiMuonB	58±5	50±4
Leptons	Hlt2DiMuonZ		
Leptons	Hlt2DiMuonDY1	3±1	2±1
Leptons	Hlt2DiMuonDY2	2±1	0.8±0.4
Leptons	Hlt2DiMuonDY3	1±1	0.2±0.1
Leptons	Hlt2DiMuonDY4	0.4±0.4	0.1±0.1
Leptons	Hlt2DiMuonDetached	54±5	33±3
Leptons	Hlt2DiMuonDetachedHeavy	53±5	28±3
Leptons	Hlt2DiMuonDetachedJPsi	28±3	10±2
Leptons	Hlt2TriMuonDetached	3±1	0.8±0.4
Leptons	Hlt2DoubleDiMuon	3±1	2±1
Leptons	Hlt2DiMuonAndMuon	2±1	1±1
Leptons	Hlt2TriMuonTau		
Leptons	Hlt2DiMuonAndGamma		
Leptons	Hlt2DiMuonAndD0	2±1	0.7±0.5
Leptons	Hlt2DiMuonAndDp	0.4±0.4	0.2±0.2
Leptons	Hlt2DiMuonAndDs		
Leptons	Hlt2DiMuonAndLc		
Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsSoftMuons	3±1	3±1

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Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsSoftMuonsWideMass	1±1	0.6±0.5
Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsAndMuons	5±1	3±1
Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsAndMuonsWideMass	3±1	1±1
Leptons	Hlt2CharmSemilepD02HHMuMu	5±1	3±1
Leptons	Hlt2CharmSemilepD02HHMuMuWideMass	1±1	1±1
<b>Leptons</b>		1311±16	
<b>Hlt2</b>	Hlt2Global	2990±2147483648	

**Rate**

Hlt2 rate

**Weighted**

Hlt2 rate re-weighting all events by the number of selections that have selected it (i.e. how much does this selection contribute to the rate?). The sum should be equal to the Hlt2 rate. **This is probably the number you want.**

**% Remaining**

Rate (Hz) of the selection in the row **requiring** the category in the column

**Reference on Run 103127**

Hlt2 eff is 100.883%. Assuming it is already applied at 3000 kHz. Using 301932 events. Normalisation factor is 0.00984905

Category	Selection	Rate	weighted
<b>Hlt1Muon</b>		881±2	
<b>Hlt1Electron</b>		36±1	
<b>Track</b>		1868±3	
<b>Hlt1Photon</b>		293±2	
<b>Hlt1Com</b>		446±2	
Unknown	Hlt2PassThrough	3.9±0.2	3.7±0.2
Unknown	Hlt2Transparent	455±2	422±2
Unknown	Hlt2Lumi	1.9±0.1	0.3±0
Unknown	Hlt2Forward	2.5±0.2	2.3±0.1
Unknown	Hlt2DebugEvent	3.9±0.2	3.7±0.2
Unknown	Hlt2ExpressJPsi	94±1	60±1
Unknown	Hlt2ExpressJPsiTagProbe	1.2±0.1	0.3±0
Unknown	Hlt2ExpressLambda	21.8±0.5	20.1±0.4
Unknown	Hlt2ExpressKS	220±1	195±1
Unknown	Hlt2ExpressDs2PhiPi	91±1	80±1
Unknown	Hlt2ExpressBeamHalo	251±2	225±1
Unknown	Hlt2ExpressDStar2D0Pi	6.5±0.3	3.6±0.2
Unknown	Hlt2ErrorEvent	5.7±0.2	2.1±0.1
<b>Unknown</b>		1240±3	
Electron	Hlt2SingleTFElectron	4.4±0.2	3.2±0.2
Electron	Hlt2SingleElectronTFLowPt	0.1±0	0.1±0
Electron	Hlt2SingleElectronTFHighPt	0.5±0.1	0.4±0.1
Electron	Hlt2SingleTFVHighPtElectron	12.1±0.3	10.8±0.3
Electron	Hlt2DiElectronHighMass	0.1±0	0±0
Electron	Hlt2DiElectronB	2.1±0.1	1.8±0.1
Electron	Hlt2LowMultElectron	7±0.3	6.8±0.3
Electron	Hlt2LowMultElectron_nofilter	1.8±0.1	1.6±0.1
<b>Electron</b>		27±1	

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Exclusive	Hlt2B2HHLTUnbiased	7.8±0.3	7.2±0.3
Exclusive	Hlt2B2HHLTUnbiasedDetached	3.4±0.2	2.5±0.1
Exclusive	Hlt2Bs2PhiGamma	3.5±0.2	2.3±0.1
Exclusive	Hlt2Bs2PhiGammaWideBMass	0.6±0.1	0.4±0.1
Exclusive	Hlt2Bd2KstGamma	14.7±0.4	11.1±0.3
Exclusive	Hlt2Bd2KstGammaWideKMass	1±0.1	0.5±0
Exclusive	Hlt2Bd2KstGammaWideBMass	1.4±0.1	0.9±0.1
Exclusive	Hlt2B2HH	4.5±0.2	3.2±0.2
Exclusive	Hlt2DiProton	10.3±0.3	10.2±0.3
Exclusive	Hlt2DisplVerticesHighMassSingle	0.9±0.1	0.2±0
Exclusive	Hlt2DisplVerticesDouble	1.5±0.1	0.9±0.1
Exclusive	Hlt2DisplVerticesHighFDSingle	2.1±0.1	0.6±0
Exclusive	Hlt2DisplVerticesSingle	1.3±0.1	0.3±0
Exclusive	Hlt2DisplVerticesSinglePostScaled	0±0	0±0
Exclusive	Hlt2DisplVerticesDoublePostScaled	0.1±0	0.1±0
Exclusive	Hlt2DisplVerticesSingleHighMassPostScaled	2.1±0.1	1.2±0.1
Exclusive	Hlt2DisplVerticesSingleHighFDPostScaled	5.7±0.2	2.6±0.1
Exclusive	Hlt2DisplVerticesSingleMVPostScaled	0.1±0	0.1±0
Exclusive	Hlt2DisplVerticesSingleDown	0±0	0±0
Exclusive	Hlt2B2HHPi0_Merged	2.5±0.2	1.4±0.1
<b>Exclusive</b>		54±1	
Topo	Hlt2Topo2BodySimple	80±1	26.9±0.4
Topo	Hlt2Topo3BodySimple	77±1	16.1±0.2
Topo	Hlt2Topo4BodySimple	128±1	31.2±0.3
Topo	Hlt2Topo2BodyBBDT	221±1	85±1
Topo	Hlt2Topo3BodyBBDT	308±2	112±1
Topo	Hlt2Topo4BodyBBDT	265±2	92±1
Topo	Hlt2TopoMu2BodyBBDT	135±1	55±1
Topo	Hlt2TopoMu3BodyBBDT	149±1	52±1
Topo	Hlt2TopoMu4BodyBBDT	108±1	33.3±0.4
Topo	Hlt2TopoE2BodyBBDT	73±1	18.8±0.3
Topo	Hlt2TopoE3BodyBBDT	93±1	26.3±0.4
Topo	Hlt2TopoE4BodyBBDT	74±1	19±0.3
Topo	Hlt2TopoRad2BodyBBDT	192±1	66±1
Topo	Hlt2TopoRad2plus1BodyBBDT	326±2	168±1
Topo	Hlt2RadiativeTopoTrackTOS	125±1	37.1±0.4
Topo	Hlt2RadiativeTopoPhotonL0	181±1	81±1
<b>Topo</b>		1026±3	
Phi	Hlt2IncPhi	37±1	28.1±0.5
Phi	Hlt2IncPhiSidebands	2.3±0.2	1.2±0.1
<b>Phi</b>		37±1	
Charm	Hlt2CharmHadD02HKKsLL	43±1	27.4±0.5
Charm	Hlt2Dst2PiD02PiPi	1.4±0.1	1.1±0.1
Charm	Hlt2Dst2PiD02KPi	2.2±0.1	1.4±0.1
Charm	Hlt2CharmHadD02HH_D02PiPi	13.8±0.4	7.3±0.2
Charm	Hlt2CharmHadD02HH_D02PiPiWideMass	9.2±0.3	3.6±0.1
Charm	Hlt2CharmHadD02HH_D02KK	55±1	33±1
Charm	Hlt2CharmHadD02HH_D02KKWideMass	24.7±0.5	12.3±0.3
Charm	Hlt2CharmHadD02HH_D02KPi	113±1	71±1
Charm	Hlt2CharmHadD02HH_D02KPiWideMass	19.1±0.4	7.5±0.2

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Charm	Hlt2CharmHadLambdaC2KPPi	89±1	49±1
Charm	Hlt2CharmHadD2KS0H_D2KS0Pi	3.6±0.2	1.9±0.1
Charm	Hlt2CharmHadD2KS0H_D2KS0K	4.5±0.2	2.5±0.1
Charm	Hlt2CharmHadMinBiasLambdaC2KPPi	0.8±0.1	0.1±0
Charm	Hlt2CharmHadMinBiasD02KPi	1±0.1	0.1±0
Charm	Hlt2CharmHadMinBiasD02KK	1.2±0.1	0.2±0
Charm	Hlt2CharmHadMinBiasDplus2hhh	0.8±0.1	0.1±0
Charm	Hlt2CharmHadMinBiasLambdaC2LambdaPi		
Charm	Hlt2CharmHadD2HHH	186±1	113±1
Charm	Hlt2CharmHadD2HHHWideMass	20.3±0.4	7.8±0.2
Charm	Hlt2CharmHadD02HHHH	47±1	25.1±0.4
Charm	Hlt2CharmHadD02HHHHWideMass	6.3±0.2	2.4±0.1
<b>Charm</b>		488±2	
Leptons	Hlt2Dst2PiD02MuMu	1.8±0.1	0.9±0.1
Leptons	Hlt2Dst2PiD02KMu	1.7±0.1	1.1±0.1
Leptons	Hlt2CharmRareDecayD02MuMu	1.7±0.1	1.3±0.1
Leptons	Hlt2MuonFromHLT1		
Leptons	Hlt2SingleMuon	317±2	286±2
Leptons	Hlt2SingleMuonHighPT	27±1	20.2±0.4
Leptons	Hlt2SingleMuonVHighPT	5.9±0.2	2.5±0.1
Leptons	Hlt2SingleMuonLowPT	1±0.1	1±0.1
Leptons	Hlt2DiProtonLowMult	19.1±0.4	18.6±0.4
Leptons	Hlt2CharmSemilepD02HMuNu_D02KMuNuWS	0.6±0.1	0.4±0.1
Leptons	Hlt2CharmSemilepD02HMuNu_D02PiMuNuWS	0.6±0.1	0.4±0.1
Leptons	Hlt2CharmSemilepD02HMuNu_D02KMuNu	7.7±0.3	5±0.2
Leptons	Hlt2CharmSemilepD02HMuNu_D02KMuNuTight	59±1	42±1
Leptons	Hlt2CharmSemilepD02HMuNu_D02PiMuNu	6.2±0.2	4±0.2
Leptons	Hlt2TFBc2JpsiMuX	0.6±0.1	0.2±0
Leptons	Hlt2TFBc2JpsiMuXSignal	0.4±0.1	0.1±0
Leptons	Hlt2diPhotonDiMuon	15.2±0.4	15.1±0.4
Leptons	Hlt2LowMultMuon	10±0.3	10±0.3
Leptons	Hlt2LowMultHadron	8.1±0.3	7.9±0.3
Leptons	Hlt2LowMultHadron_nofilter	0.7±0.1	0.6±0.1
Leptons	Hlt2LowMultPhoton	2.4±0.2	2.4±0.2
Leptons	Hlt2CharmSemilepD2HMuMu	5.7±0.2	2.9±0.1
Leptons	Hlt2CharmSemilepD2HMuMuWideMass	0.8±0.1	0.3±0
Leptons	Hlt2DiMuon		
Leptons	Hlt2DiMuonLowMass		
Leptons	Hlt2DiMuonJPsi	27±1	13.6±0.3
Leptons	Hlt2DiMuonJPsiHighPT	60±1	31±0.4
Leptons	Hlt2DiMuonPsi2S	2±0.1	1.4±0.1
Leptons	Hlt2DiMuonPsi2SHighPT	7.4±0.3	6±0.2
Leptons	Hlt2DiMuonB	43±1	37±1
Leptons	Hlt2DiMuonZ	0±0	0±0
Leptons	Hlt2DiMuonDY1	1.5±0.1	1.3±0.1
Leptons	Hlt2DiMuonDY2	0.9±0.1	0.5±0.1
Leptons	Hlt2DiMuonDY3	1.5±0.1	0.6±0.1
Leptons	Hlt2DiMuonDY4	0.1±0	0±0
Leptons	Hlt2DiMuonDetached	37±1	21.1±0.4
Leptons	Hlt2DiMuonDetachedHeavy	35±1	18.6±0.4

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Leptons	Hlt2DiMuonDetachedJPsi	17.9±0.4	5.8±0.2
Leptons	Hlt2TriMuonDetached	1.1±0.1	0.4±0.1
Leptons	Hlt2DoubleDiMuon	0.9±0.1	0.4±0
Leptons	Hlt2DiMuonAndMuon	0.8±0.1	0.3±0
Leptons	Hlt2TriMuonTau	0.3±0.1	0.1±0
Leptons	Hlt2DiMuonAndGamma		
Leptons	Hlt2DiMuonAndD0	0.6±0.1	0.3±0
Leptons	Hlt2DiMuonAndDp	0.3±0.1	0.1±0
Leptons	Hlt2DiMuonAndDs	0.1±0	0±0
Leptons	Hlt2DiMuonAndLc	0.3±0.1	0.2±0
Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsSoftMuons	1.4±0.1	1±0.1
Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsSoftMuonsWideMass	0.3±0.1	0.2±0
Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsAndMuons	4±0.2	2.3±0.1
Leptons	Hlt2CharmSemilepD02HHMuMuHardHadronsAndMuonsWideMass	0.8±0.1	0.5±0.1
Leptons	Hlt2CharmSemilepD02HHMuMu	4.8±0.2	2.5±0.1
Leptons	Hlt2CharmSemilepD02HHMuMuWideMass	1.1±0.1	0.6±0.1
<b>Leptons</b>		646±2	
<b>Hlt2</b>	Hlt2Global	3000±-2147483648	

**Rate**

Hlt2 rate

**Weighted**

Hlt2 rate re-weighting all events by the number of selections that have selected it (i.e. how much does this selection contribute to the rate?). The sum should be equal to the Hlt2 rate. **This is probably the number you want.**

**% Remaining**Rate (Hz) of the selection in the row **requiring** the category in the column

-- PatrickSKoppenburg - 11-Jan-2012

This topic: LHCb &gt; 25NsDQ

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