

TABLE I: Available HLT bandwidth is 150 Hz = ((1 GB/s / 3) - 100 MB/s for AlCa triggers) / 1.5 MB/event.

HLT for L = 0.0e+00							
Path Name	L1 Condition	L1 Prescale	HLT Prescale	HLT Rate [Hz]	Total Rate [Hz]	Avg. Size [MB]	Total Throughput [MB/s]
HLT_L1Jet6U	L1_SingleJet6	1	1	162.08 ± 1.88	162.08	1.50	243.12
HLT_Jet15U	L1_SingleJet6	1	1	50.69 ± 1.05	162.08	1.50	243.12
HLT_Jet30U	L1_SingleJet6	1	1	4.75 ± 0.34	162.08	1.50	243.12
HLT_Jet50U	L1_SingleJet10	1	1	0.00 ± 0.00	162.08	1.50	243.12
HLT_FwdJet20U	L1_IsoEG10_Jet15_ForJet10	0	1	0.00 ± 0.00	162.08	1.50	243.12
HLT_DiJetAve15U	L1_SingleJet6	1	1	18.19 ± 0.64	162.08	1.50	243.12
HLT_DiJetAve30U	L1_SingleJet10	1	1	0.00 ± 0.00	162.08	1.50	243.12
HLT_QuadJet15U	L1_QuadJet6	1	1	0.00 ± 0.00	162.08	1.50	243.12
HLT_L1MET20	L1_ETM20	1	1	0.00 ± 0.00	162.08	1.50	243.12
HLT_MET35	L1_ETM30	1	1	0.00 ± 0.00	162.08	1.50	243.12
HLT_MET100	L1_ETM80	0	1	0.00 ± 0.00	162.08	1.50	243.12
HLT_L1MuOpen	List Too Long	-	1	291.66 ± 2.52	453.20	1.50	679.81
HLT_L1Mu	L1_SingleMu7,L1_DoubleMu3	1,1	1	222.34 ± 2.20	453.20	1.50	679.81
HLT_L1Mu20	L1_SingleMu20	0	1	0.00 ± 0.00	453.20	1.50	679.81
HLT_L2Mu9	L1_SingleMu7	1	1	38.54 ± 0.92	453.20	1.50	679.81
HLT_L2Mu11	L1_SingleMu7	1	1	33.94 ± 0.87	453.20	1.50	679.81
HLT_Mu3	L1_SingleMu3	1	1	0.00 ± 0.00	453.20	1.50	679.81
HLT_Mu5	L1_SingleMu5	1	1	0.00 ± 0.00	453.20	1.50	679.81
HLT_Mu9	L1_SingleMu7	1	1	0.00 ± 0.00	453.20	1.50	679.81
HLT_DoubleMu0	L1_DoubleMuOpen	1	1	0.00 ± 0.00	453.20	1.50	679.81
HLT_DoubleMu3	L1_DoubleMu3	1	1	0.00 ± 0.00	453.20	1.50	679.81
HLT_L1DoubleMuOpen	L1_DoubleMuOpen	1	1	104.69 ± 1.51	453.20	1.50	679.81
HLT_IsoMu3	L1_SingleMu3	1	1	0.00 ± 0.00	453.20	1.50	679.81
HLT_L1SingleEG5	L1_SingleEG5	1	1	0.16 ± 0.10	453.23	1.50	679.85
HLT_L1SingleEG8	L1_SingleEG8	1	1	0.10 ± 0.08	453.23	1.50	679.85
HLT_Ele10_LW_L1R	L1_SingleEG5	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_Ele15_LW_L1R	L1_SingleEG10	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_L1DoubleEG5	L1_DoubleEG5	1	1	0.01 ± 0.04	453.23	1.50	679.85
HLT_DoubleEle5_SW_L1R	L1_DoubleEG5	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_Ele15_SC10_LW_L1R	L1_SingleEG8	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_Ele20_LW_L1R	L1_SingleEG8	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_Ele25_LW_L1R	L1_SingleEG8	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_Photon10_L1R	L1_SingleEG5	1	1	0.02 ± 0.05	453.23	1.50	679.85
HLT_Photon15_L1R	L1_SingleEG8	1	1	0.01 ± 0.05	453.23	1.50	679.85
HLT_Photon15_TrackIso_L1R	L1_SingleEG8	1	1	0.01 ± 0.05	453.23	1.50	679.85
HLT_Photon15_LooseEcalIso_L1R	L1_SingleEG10	1	1	0.01 ± 0.04	453.23	1.50	679.85
HLT_Photon20_L1R	L1_SingleEG8	1	1	0.01 ± 0.04	453.23	1.50	679.85
HLT_Photon30_L1R	L1_SingleEG8	1	1	0.00 ± 0.03	453.23	1.50	679.85
HLT_SinglelLooseIsoTau20			1	0.00 ± 0.00	453.23	1.50	679.85
HLT_DoubleLooseIsoTau15	L1_DoubleJet30,L1_DoubleTauJet14	0,0	1	0.06 ± 0.07	453.23	1.50	679.85

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Path Name	L1 Condition	L1 Prescale	HLT Prescale	HLT Rate [Hz]	Total Rate [Hz]	Avg. Size [MB]	Total Throughput [MB/s]
HLT_BTagIP_Jet50U_ST	L1_SingleJet30	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_BTagMu_Jet10U_Calib	L1_Mu3_Jet6	1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_L1Mu14_L1SingleEG10	L1_SingleMu14,L1_SingleEG10	1,1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_L1Mu14_L1SingleJet6U	L1_SingleMu14,L1_SingleJet6	1,1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_L1Mu14_L1ETM30	L1_SingleMu14,L1_ETM30	1,1	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_MinBiasHcal	List Too Long	-	1	0.00 ± 0.00	453.23	1.50	679.85
HLT_MinBiasEcal	L1_SingleEG1,L1_DoubleEG1	1,1	1	23.98 ± 0.73	476.33	1.50	714.49
HLT_MinBiasPixel	L1_MinBiasHTT10	0	1	0.00 ± 0.00	476.33	1.50	714.49
HLT_MinBiasPixel_Trk5	L1_MinBiasHTT10	0	1	0.00 ± 0.00	476.33	1.50	714.49
HLT_CSCBeamHalo	L1_SingleMuBeamHalo	1	1	1.08 ± 0.18	476.33	1.50	714.49
HLT_CSCBeamHaloOverlapRing1	L1_SingleMuBeamHalo	1	1	0.00 ± 0.02	476.33	1.50	714.49
HLT_CSCBeamHaloOverlapRing2	L1_SingleMuBeamHalo	1	1	0.00 ± 0.02	476.33	1.50	714.49
HLT_CSCBeamHaloRing2or3	L1_SingleMuBeamHalo	1	1	0.97 ± 0.17	476.33	1.50	714.49
HLT_BackwardBSCC			1	0.00 ± 0.00	476.33	1.50	714.49
HLT_ForwardBSC			1	0.00 ± 0.00	476.33	1.50	714.49
HLT_TrackerCosmics			1	0.00 ± 0.00	476.33	1.50	714.49
AlCa_IsoTrack	List Too Long	-	1	0.00 ± 0.00	476.33	0.21	714.49
AlCa_HcalPhiSym	List Too Long	-	1	23.98 ± 0.73	476.33	0.00	714.49
AlCa_EcalPhiSym	List Too Long	-	1	23.98 ± 0.73	476.33	0.00	714.49
AlCa_EcalPi0	List Too Long	-	1	0.02 ± 0.06	476.33	0.01	714.49
Total HLT Physics rate (Hz), AlCa triggers not included						476.33 ± 3.22	
Total Physics HLT throughput (MB/s), AlCa triggers not included						714.49 ± 4.84	
Total HLT rate (Hz)						476.33 ± 3.22	
Total HLT throughput (MB/s)						714.49 ± 4.84	
HLT_L1MuOpen	L1_SingleMuOpen, L1_SingleMu3, L1_SingleMu5				1, 1, 1		
HLT_MinBiasHcal	L1_SingleHfBitCountsRing1_L1, L1_DoubleHfBitCountsRing1_P1N1, L1_SingleHfRingEtSumsRing1_L4, L1_DoubleHfRingEtSumsRing1_P4N4, L1_SingleHfRingEtSumsRing2_L4, L1_DoubleHfRingEtSumsRing2_P4N4				1, 1, 1, 1, 1, 1		
AlCa_IsoTrack	L1_SingleJet10, L1_SingleJet20, L1_SingleJet40, L1_SingleTauJet10, L1_SingleTauJet20, L1_SingleTauJet30, L1_SingleTauJet50				1, 1, 1, 1, 1, 1		
AlCa_HcalPhiSym	L1_SingleEG1, L1_DoubleEG1, L1_SingleEG2				1, 1, 0		
AlCa_EcalPhiSym	OpenL1_ZeroBias, L1_SingleEG1, L1_DoubleEG1, L1_SingleHfBitCountsRing1_L1, L1_DoubleHfBitCountsRing1_P1N1, L1_SingleHfRingEtSumsRing1_L4, L1_DoubleHfRingEtSumsRing1_P4N4, L1_SingleHfRingEtSumsRing2_L4, L1_DoubleHfRingEtSumsRing2_P4N4				1, 1, 1, 1, 1, 1, 1, 1, 1		

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Path Name	L1 Condition	L1 Prescale	HLT Prescale	HLT Rate [Hz]	Total Rate [Hz]	Avg. Size [MB]	Total Throughput [MB/s]
AlCa_EcalPi0	L1_SingleIsoEG5, L1_SingleIsoEG8, L1_SingleIsoEG10, L1_SingleIsoEG12, L1_SingleIsoEG15, L1_SingleEG1, L1_SingleEG2, L1_SingleEG5, L1_SingleEG8, L1_SingleEG10, L1_SingleEG12, L1_SingleEG15, L1_SingleEG20				1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1		