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# Bandwidth per WG and per stream

Note: 5 kHz trigger rate is used in the calculation. Test sample is  
 \$STRIPPINGSELECTIONSROOT/tests/data/Reco14\_Run125113.py (738597 events)

WG / Stream	Bhadron	BhadronCompleteEvent	Calibration	Charm	CharmCompleteEvent	Dimuon	EW	Leptonic	Semileptonic	Total, Mb/s	Time, ms/event
Event size, kb	7.7	136.7	26.4	6.8	133.3	124.2	55.0	7.5	95.5		
B2CC						1.35		0.01		1.36	20.2
B2OC	0.22	2.98								3.20	66.8
BandQ	0.05			0.11	0.13	0.63				0.92	27.3
Calib			0.10		0.11					0.21	20.3
Charm				0.84	0.32					1.17	55.6
Charmless	0.27	1.62								1.88	48.9
QEE		1.42					1.98			3.39	22.6
RD		0.50				0.94		0.05		1.48	82.6
SL				0.09					1.68	1.76	26.5
All	0.53	6.23	0.10	1.04	0.56	2.82	1.98	0.06	1.68	15.00	200.5

# Lines in full DST streams with retention more than 0.05%

WG	Stream	Line name	N evnts	Rate, %
B2CC	Dimuon	StrippingBetaSPsi2SMuMu_InclPsi2SToMuMuDetachedLine	1394	0.0620
B2OC	BhadronCompleteEvent	StrippingPseudoDoubleTopoLine	6826	0.3034
BandQ	Dimuon	StrippingX1bcX2JpsiProtonGoodPointing	1206	0.0536
Charmless	BhadronCompleteEvent	StrippingBetaSQ2B4piSelectionLine	2771	0.1232
Charmless	BhadronCompleteEvent	StrippingBetaSQ2B3piSelectionLine	2369	0.1053
QEE	BhadronCompleteEvent	StrippingBjets1B4jetLine	1402	0.0623
QEE	BhadronCompleteEvent	StrippingBjets1B2jetlowLinePS	1151	0.0512
QEE	EW	StrippingLowMultCEP_D2KpPipPim_line	3126	0.1389
QEE	EW	StrippingLowMultCEP_D2KmPipPip_line	1824	0.0811
QEE	EW	StrippingLowMultCEP_ChiC2PiPiPiPi_line	1381	0.0614
QEE	EW	StrippingLowMultCEP_LMR2KPi_line	1597	0.0710
QEE	EW	StrippingLowMultCEP_LMR2PiPi_line	1861	0.0827
QEE	EW	StrippingWMuJetsLine	1159	0.0515
QEE	EW	StrippingWeJetsLine	1710	0.0760
SL	Semileptonic	Strippingb2DsPi_PhiPi_fakesB2DMuNuXLine	1267	0.0563

## Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingBetaSJpsi2MuMuLine	412	0.0183	0.083
StrippingBetaSBs2JpsiPhiDetachedLine	691	0.0307	0.069
StrippingBetaSBu2JpsiKPrescaledLine	459	0.0204	0.265
StrippingBetaSBs2JpsiPhiPrescaledLine	458	0.0204	0.396
StrippingBetaSBd2JpsiKstarPrescaledLine	324	0.0144	0.176
StrippingBetaSBd2JpsiKsPrescaledLine	278	0.0124	0.943
StrippingBetaSBs2JpsiEtaPrescaledLine	705	0.0313	0.282
StrippingBetaSBs2JpsiEtapPrescaledLine	433	0.0192	0.144
StrippingBetaSPsi2SMuMu_InclPsi2SToMuMuLine	187	0.0083	0.270
StrippingBetaSPsi2SMuMu_InclPsi2SToMuMuDetachedLine	1394	0.0620	0.476

## Leptonic

Line name	N evnts	Rate, %	ms/evt
StrippingBetaSBs2JpsiPhiMicroLine	691	0.0307	10.355

## Bhadron

Line name	N evnts	Rate, %	ms/evt
StrippingB2D0KD2Pi0HHMergedBeauty2CharmLine	1224	0.0544	8.858
StrippingB2D0KD2Pi0HHResolvedBeauty2CharmLine	8448	0.3755	5.835
StrippingB2D0PiD2Pi0HHMergedBeauty2CharmLine	1094	0.0486	0.146
StrippingB2D0PiD2Pi0HHResolvedBeauty2CharmLine	7594	0.3375	0.771
StrippingB2D0DBeauty2CharmLine	3485	0.1549	5.419
StrippingLb2D0Lambda0DDD02HHBeauty2CharmLine	91	0.0040	1.168
StrippingLb2D0Lambda0LLD02HHBeauty2CharmLine	57	0.0025	1.226

Line name	N evnts	Rate, %	ms/evt
StrippingB02DDFULLDSTBeauty2CharmLine	628	0.0279	1.897
StrippingB02DDUPFULLDSTBeauty2CharmLine	2	0.0001	2.531
StrippingB02D0D0D02K3PiUPFULLDSTBeauty2CharmLine	19	0.0008	7.988
StrippingB02D0PPbarD2HHFULLDSTBeauty2CharmLine	483	0.0215	1.150
StrippingB2D0PiD2HHHHTIGHTBeauty2CharmLine	582	0.0259	8.620
StrippingB2D0PiPiPiD2HHTIGHTBeauty2CharmLine	815	0.0362	1.136
StrippingB2D0KD2KSPi0HHLLMergedBeauty2CharmLine	58	0.0026	0.317
StrippingB2D0KD2KSPi0HHDDMergedBeauty2CharmLine	10	0.0004	0.427
StrippingB2D0KD2KSPi0HHLLResolvedBeauty2CharmLine	430	0.0191	1.744
StrippingB2D0KD2KSPi0HHDDRResolvedBeauty2CharmLine	209	0.0093	3.490
StrippingB2D0PiD2KSPi0HHLLMergedBeauty2CharmLine	47	0.0021	0.084
StrippingB2D0PiD2KSPi0HHDDMergedBeauty2CharmLine	9	0.0004	0.076
StrippingB2D0PiD2KSPi0HHLLResolvedBeauty2CharmLine	302	0.0134	0.123
StrippingB2D0PiD2KSPi0HHDDRResolvedBeauty2CharmLine	177	0.0079	0.102
StrippingPseudoDoubleTopoLine	6826	0.3034	6.858

## Bhadron

Line name	N evnts	Rate, %	ms/evt
StrippingBc3pppiForBc3h	530	0.0236	11.664
StrippingBc3ppkForBc3h	198	0.0088	0.949
StrippingBc3piForBc3h	1508	0.0670	0.854
StrippingBc3kForBc3h	91	0.0040	0.742
StrippingBc3kpiForBc3h	1454	0.0646	0.139

## Charm

Line name	N evnts	Rate, %	ms/evt
StrippingXicHHHTheta2PKS0Line	7351	0.3267	2.908

Line name	N evnts	Rate, %	ms/evt
StrippingBetac2PhiPBetac2PhiPLine	441	0.0196	2.052

## Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingXibcXibc2JpsiKp	956	0.0425	0.628
StrippingXibcLb2JpsiKp	449	0.0200	0.073
StrippingXibcX2JpsiProtonGoodPointing	1206	0.0536	0.141

# Calib

## Calibration

Line name	N evnts	Rate, %	ms/evt
StrippingBu2LcippiLc2KpiB2LcpXlc2KpiLine	372	0.0165	11.322
StrippingBd2LcippiLc2KpiB2LcpXlc2KpiLine	1753	0.0779	0.058
StrippingTrackEffMuonTT_JpsiLine1	0	0.0000	0.000
StrippingTrackEffMuonTT_JpsiLine2	0	0.0000	0.000
StrippingTrackEffMuonTT_UpsilonLine1	0	0.0000	0.000
StrippingTrackEffMuonTT_UpsilonLine2	0	0.0000	0.000
StrippingTrackEffMuonTT_ZLine1	7	0.0003	1.532
StrippingTrackEffMuonTT_ZLine2	5	0.0002	0.640
StrippingTrackEffMuonTT_BJpsiKLine1	0	0.0000	0.000
StrippingTrackEffMuonTT_BJpsiKLine2	0	0.0000	0.000

Line name	N evnts	Rate, %	ms/evt
StrippingTriggerValidationD02KPiLine	0	0.0000	0.000
StrippingTriggerValidationD2KPiPiLine	0	0.0000	0.000
StrippingTriggerValidationJpsi2MMLine	0	0.0000	0.000
StrippingTriggerValidationPhi2KKLine	0	0.0000	0.000
StrippingTriggerValidationJpsi2MM_NoRecoLine	154	0.0068	0.049
StrippingTriggerValidationD02KPi_NoRecoLine	206	0.0092	0.057

# Charm

## Charm

Line name	N evnts	Rate, %	ms/evt
StrippingD2KS0HPionLine	1034	0.0460	0.655
StrippingD2KS0HPionLineDD	3199	0.1422	2.112
StrippingD2XMuMu_KSSLine	0	0.0000	0.000
StrippingD2XMuMu_KOSLine	0	0.0000	0.000
StrippingD2XMuMu_PiSSLine	0	0.0000	0.000
StrippingD2XMuMu_PiOSLine	0	0.0000	0.000
StrippingD2XMuMu_PiCalLine	0	0.0000	0.000
StrippingD2XMuMu_K2PiLine	0	0.0000	0.000
StrippingD2XMuMu_2KPiLine	0	0.0000	0.000
StrippingD2XMuMu_KKLine	0	0.0000	0.000
StrippingD2XMuMu_PiPiLine	0	0.0000	0.000
StrippingD2XMuMu_KPiLine	0	0.0000	0.000
StrippingD2XMuMu_KKPiPiLine	2760	0.1227	2.445
StrippingD2XMuMu_K3PiLine	1345	0.0598	1.082
StrippingD2XMuMu_PiPiPiPiLine	1686	0.0749	2.400
StrippingD2XMuMu_Lambdac2PMuMuLine	0	0.0000	0.000
StrippingD2XMuMu_Lambdac2PPiPiLine	0	0.0000	0.000
StrippingD2PiPi0_eegammaPiPi0PromptLine	4562	0.2028	8.728
StrippingD2PiPi0_eegammaKPi0PromptLine	2694	0.1197	2.152
StrippingD2PiPi0_eegammaPiEtaPromptLine	2630	0.1169	0.463
StrippingD2PiPi0_eegammaKEtaPromptLine	1688	0.0750	0.281
StrippingD2PiPi0_eegammaPiEtaPrimePromptLine	4836	0.2149	0.401
StrippingD2PiPi0_eegammaKEtaPrimePromptLine	4085	0.1816	0.248
StrippingD2PiPi0_eegammaSemiLeptonicLine	944	0.0420	0.332
StrippingDstarToHHPi0_Kpipi0_R_Line	5759	0.2560	1.845
StrippingDstarToHHPi0_Kpipi0WS_R_Line	2688	0.1195	0.143
StrippingDstarToHHPi0_pipipi0_R_Line	4962	0.2205	0.305
StrippingDstarToHHPi0_KKpi0_R_Line	622	0.0276	0.107
StrippingDstarToHHPi0_Kpipi0_M_Line	498	0.0221	0.120
StrippingDstarToHHPi0_pipipi0_M_Line	260	0.0116	0.134
StrippingDstarToHHPi0_KKpi0_M_Line	33	0.0015	0.093
StrippingDstarToHHPi0_Kpipi0_R_WIDEMASS_Line	867	0.0385	0.068
StrippingB2ppipiSigmacmm_Lcpi_PartReco_Line	7914	0.3517	0.908
StrippingB2ppipiSigmacmm_Lcpi_PartRecoWS_Line	6334	0.2815	0.065
StrippingB2ppipiSigmacmm_Lcpi_Closed_Line_FourPart	248	0.0110	0.068
StrippingB2ppipiSigmacmm_Lcpi_Closed_Line_FourPart_WS	221	0.0098	0.065
StrippingDstarPromptWithD02HHMuMuControlLine	5627	0.2501	4.704
StrippingDstarD0ToKsHHPi0_Kspipipi0_LLResolved_Line	256	0.0114	0.130
StrippingDstarD0ToKsHHPi0_Kspipipi0_DDResolved_Line	99	0.0044	0.102
StrippingDstarD0ToKsHHPi0_Kspipipi0_LLMerged_Line	26	0.0012	0.086
StrippingDstarD0ToKsHHPi0_Kspipipi0_DDMerged_Line	7	0.0003	0.087



## StrippingStatisticsStripping20r0p2Test3 &lt; LHCb &lt; TWiki

Line name	N evnts	Rate, %	ms/evt
StrippingB2ppipiSigmacmm_Lcpi_FULLDST_PartReco_Line	385	0.0171	0.722
StrippingB2ppipiSigmacmm_Lcpi_FULLDST_PartRecoWS_Line	313	0.0139	0.689
StrippingB2ppipiSigmacmm_Lcpi_FULLDST_Closed_Line_FourPart	248	0.0110	12.601
StrippingB2ppipiSigmacmm_Lcpi_FULLDST_Closed_Line_FourPart_W	221	0.0098	0.217
Strippingb2D0MuXKsPiPiPi0MergedLLCharmFromBSemiLine	0	0.0000	1.228
Strippingb2D0MuXKsPiPiPi0MergedDDCharmFromBSemiLine	3	0.0001	1.617
Strippingb2D0MuXKsPiPiPi0ResolvedLLCharmFromBSemiLine	8	0.0004	0.323
Strippingb2D0MuXKsPiPiPi0ResolvedDDCharmFromBSemiLine	21	0.0009	0.610
Strippingb2DstarMuXKsPiPiPi0MergedLLCharmFromBSemiLine	0	0.0000	0.069
Strippingb2DstarMuXKsPiPiPi0MergedDDCharmFromBSemiLine	1	0.0000	0.067
Strippingb2DstarMuXKsPiPiPi0ResolvedLLCharmFromBSemiLine	3	0.0001	0.067
Strippingb2DstarMuXKsPiPiPi0ResolvedDDCharmFromBSemiLine	4	0.0002	0.067

# Charmless

## Bhadron

Line name	N evnts	Rate, %	ms/evt
StrippingLb2V0hDDLLine	546	0.0243	14.392
StrippingLb2V0hLLLLine	366	0.0163	4.722
StrippingLb2V0hhDDLLine	2473	0.1099	1.235
StrippingLb2V0hhLLLLine	1465	0.0651	0.824
StrippingB2XEtaB2etapKSLLLLine	2427	0.1079	6.657
StrippingB2XEtaB2etapKSDDLLine	1753	0.0779	3.732
StrippingB2XEtaB2eta3piKSLLLLine	2974	0.1322	0.826
StrippingB2XEtaB2eta3piKSDDLLine	1370	0.0609	0.304
StrippingB2XEtaLb2etapLLLLine	1327	0.0590	2.607
StrippingB2XEtaLb2etapLDDLLine	729	0.0324	0.629
StrippingB2XEtaLb2eta3piLLLLine	1403	0.0624	0.432
StrippingB2XEtaLb2eta3piLDDLLine	630	0.0280	0.138

Line name	N evnts	Rate, %	ms/evt
StrippingBetaSQ2B4piSelectionLine	2771	0.1232	2.374
StrippingBetaSQ2B3piSelectionLine	2369	0.1053	0.381
StrippingBs2Phif0Line	308	0.0137	2.755

# QEE

Line name	N evnts	Rate, %	ms/evt
StrippingBjets2B4jetLine	778	0.0346	0.411
StrippingBjets2B3jetLine	971	0.0432	0.058
StrippingBjets1B4jetLine	1402	0.0623	6.089
StrippingBjets1B2jethighLinePS	1120	0.0498	0.050
StrippingBjets1B2jetlowLinePS	1151	0.0512	0.039

# EW

Line name	N evnts	Rate, %	ms/evt
StrippingHighPtTopoJets10000	1106	0.0492	0.040
StrippingHighPtTopoJets1000	720	0.0320	0.024
StrippingHighPtTopoJets20000_Cone55	959	0.0426	1.572
StrippingLowMultCEP_D2KpPipPim_line	3126	0.1389	0.204
StrippingLowMultCEP_D2KmPipPip_line	1824	0.0811	0.054
StrippingLowMultCEP_ChiC2KK_line	289	0.0128	0.052
StrippingLowMultCEP_ChiC2PiPi_line	957	0.0425	0.052
StrippingLowMultCEP_ChiC2KpKpPimPim_line	219	0.0097	0.053
StrippingLowMultCEP_ChiC2KpKmPipPim_line	651	0.0289	0.051
StrippingLowMultCEP_ChiC2KKKK_line	43	0.0020	0.051
StrippingLowMultCEP_ChiC2PiPiPiPi_line	1381	0.0614	0.053
StrippingLowMultCEP_D0D0_line	1	0.0000	0.053
StrippingLowMultCEP_D0D0bar_line	0	0.0000	0.051
StrippingLowMultCEP_DpDm_line	1	0.0000	0.050
StrippingLowMultCEP_D0Dp_line	1	0.0000	0.050
StrippingLowMultCEP_DpDp_line	0	0.0000	0.051
StrippingLowMultCEP_KpKm_line	1030	0.0458	0.039
StrippingLowMultCEP_KpKp_line	158	0.0070	0.037
StrippingLowMultCEP_LMR2KPi_line	1597	0.0710	0.039
StrippingLowMultCEP_LMR2KK_line	516	0.0229	0.039
StrippingLowMultCEP_LMR2PiPi_line	1861	0.0827	0.039
StrippingLowMultCEP_ChiC2KKWS_line	4	0.0002	0.038
StrippingLowMultCEP_ChiC2PiPiWS_line	32	0.0014	0.038
StrippingLowMultCEP_ChiC2KpKpPipPipWS_line	2	0.0001	0.038
StrippingLowMultCEP_ChiC2KpKpPipPimWS_line	19	0.0008	0.038
StrippingLowMultCEP_ChiC2KpKmPipPipWS_line	23	0.0010	0.037
StrippingLowMultCEP_ChiC2KKKKWS_line	1	0.0000	0.038
StrippingLowMultCEP_ChiC2PiPiPiPiWS_line	53	0.0024	0.038
StrippingWMuJetsLine	1159	0.0515	1.806
StrippingSbarSCorrelationsPhiLine	330	0.0147	0.046
StrippingSbarSCorrelationsF2Line	9	0.0004	0.191
StrippingSbarSCorrelationsLambdaCplusLine	192	0.0085	0.054
StrippingSbarSCorrelationsLambdaCminusLine	214	0.0095	0.056
StrippingWeJetsLine	1710	0.0760	4.132

# RD

Line name	N evnts	Rate, %	ms/evt
StrippingB2XTau_DPi_TOSLine	579	0.0257	0.729
StrippingB2XTau_DPi_TISLine	354	0.0157	0.656
StrippingB2XTau_DPi_SameSign_TOSLine	393	0.0175	0.613
StrippingB2XTau_DPi_SameSign_TISLine	338	0.0150	0.552

## Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingB2XMuMu_Line	703	0.0313	9.196
StrippingB2XMuMu_HadronicLine	833	0.0370	13.605
StrippingInflaton2MuMuLongLine	0	0.0000	0.000
StrippingInflaton2MuMuDownstreamLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bu2InflatonKLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bs2InflatonPhiLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bd2InflatonKstLine	875	0.0389	4.311
StrippingInflaton2MuMu_Bd2InflatonRhoLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bu2InflatonKDnLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bs2InflatonPhiDnLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bd2InflatonKstDnLine	7	0.0003	0.593
StrippingInflaton2MuMu_Bd2InflatonRhoDnLine	0	0.0000	0.000
StrippingRareStrangeSigmaPMuMuLine	480	0.0213	1.758
StrippingRareStrangeSigmaPEELine	485	0.0216	3.524
StrippingRareStrangeSigmaPMuMuLFVLine	54	0.0024	0.081
StrippingRareStrangeK3PiLine	0	0.0000	0.000

## Leptonic

Line name	N evnts	Rate, %	ms/evt
StrippingB2PhiGamma_B2VG_Line	243	0.0108	1.355
StrippingB2KstarGamma_B2VG_Line	1194	0.0531	0.344
StrippingBu2LLK_eeLine	290	0.0129	29.321
StrippingBu2LLK_eeLine2	278	0.0124	5.227
StrippingBu2LLK_mmLine	767	0.0341	1.813
StrippingBu2LLK_meLine	571	0.0254	1.614

# SL

## Charm

Line name	N evnts	Rate, %	ms/evt
StrippingPhiToKSKS_PhiToKKLine	124	0.0055	0.047
StrippingPhiToKSKS_PhiToKsKs_LLLLLine	167	0.0075	0.651
StrippingPhiToKSKS_PhiToKsKs_LLDDLine	669	0.0298	0.437
StrippingPhiToKSKS_JPsiToKKLine	286	0.0127	0.066
StrippingPhiToKSKS_JPsiToKsKs_LLLLLine	323	0.0144	0.076
StrippingPhiToKSKS_JPsiToKsKs_LLDDLine	1005	0.0447	0.070
Strippingb2D0MuXB2DMuNuXLine	3477	0.1545	0.474
StrippingDstarOfb2D0MuXB2DMuNuXLine	1146	0.0510	0.054

## Semileptonic

Line name	N evnts	Rate, %	ms/evt
Strippingb2DsPi_PhiPi_fakesB2DMuNuXLine	1267	0.0563	13.132
StrippingB2XuMuNuBs2KLine	738	0.0328	2.234
StrippingB2XuMuNuBs2KSSLine	1048	0.0466	0.427
StrippingB2XuMuNuBu2RhoLine	1066	0.0474	0.539
StrippingB2XuMuNuBu2RhoWSLine	587	0.0261	0.306
StrippingB2XuMuNuBu2RhoSBLine	965	0.0429	0.478
StrippingB2XuMuNuBu2KshSSMu_SSMuminusLine	932	0.0415	0.267
StrippingB2XuMuNuBu2KshOSMu_SSMuplusLine	967	0.0430	0.217
StrippingB2XuMuNuBs2KstarLLLine	635	0.0282	0.292
StrippingB2XuMuNuBs2KstarLLSSLine	377	0.0168	0.109

This topic: LHCb > StrippingStatisticsStripping20r0p2Test3

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