

Table of Contents

Bandwidth per WG and per stream.....	1
Lines in full DST streams with retention more than 0.05%.....	2
.....	3
Dimuon.....	3
Leptonic.....	3
.....	4
Bhadron.....	4
.....	5
Bhadron.....	5
Charm.....	5
Dimuon.....	5
Calib.....	6
Calibration.....	6
Charm.....	7
Charm.....	7
Charmless.....	9
Bhadron.....	9
QEE.....	10
EW.....	10
RD.....	11
Dimuon.....	11
Leptonic.....	12
SL.....	13
Charm.....	13
Semileptonic.....	13

Bandwidth per WG and per stream

Note: 5 kHz trigger rate is used in the calculation. Test sample is
 \$STRIPPINGSELECTIONSROOT/tests/data/Reco14_2011Data_MagDn_New.py (~5M events)

WG / Stream	Bhadron	BhadronCompleteEvent	Calibration	Charm	CharmCompleteEvent	CharmToBeSwum	Dimuon	EW	Leptonic	MimiBias	PID	Radiative	Semileptonic	Total, Mb/s	Time, ms/event
Event size, kb	7.8	104.3	24.3	7.5	123.4	36.5	115.4	105.9	6.7	47.5	2.2	146.8	92.8		
B2CC							0.87		0.01					0.88	16.3
B2OC	0.17	0.59												0.76	39.1
BandQ	0.03			0.09	0.16		0.60							0.88	21.7
Calib			0.05		0.24									0.29	17.1
Charm				0.45	0.18									0.63	38.0
Charmless	0.18	0.99												1.17	34.4
QEE		0.34						1.29						1.64	16.8
RD		0.42					0.62		0.03					1.08	62.6
SL				0.10									0.93	1.03	21.7
All	0.38	2.25	0.05	0.63	0.59		2.03	1.29	0.04				0.93	8.19	140.5

Lines in full DST streams with retention more than 0.05%

WG	Stream	Line name	N evnts	Rate, %
BandQ	Dimuon	StrippingX1bcX2JpsiProtonGoodPointing	3095	0.0585
Charmless	BhadronCompleteEvent	StrippingBetaSQ2B4piSelectionLine	5569	0.1052
Charmless	BhadronCompleteEvent	StrippingBetaSQ2B3piSelectionLine	4375	0.0826
QEE	EW	StrippingWeJetsLine	3689	0.0697

Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingBetaSJpsi2MuMuLine	857	0.0162	0.047
StrippingBetaSBs2JpsiPhiDetachedLine	1395	0.0263	0.059
StrippingBetaSBu2JpsiKPrescaledLine	512	0.0097	0.074
StrippingBetaSBs2JpsiPhiPrescaledLine	589	0.0111	0.089
StrippingBetaSBd2JpsiKstarPrescaledLine	381	0.0072	0.075
StrippingBetaSBd2JpsiKsPrescaledLine	1045	0.0197	0.604
StrippingBetaSBs2JpsiEtaPrescaledLine	381	0.0072	0.087
StrippingBetaSBs2JpsiEtaPPrescaledLine	761	0.0144	0.091
StrippingBetaSPsi2SMuMu_InclPsi2SToMuMuLine	377	0.0071	0.043
StrippingBetaSPsi2SMuMu_InclPsi2SToMuMuDetachedLine	1932	0.0365	0.829

Leptonic

Line name	N evnts	Rate, %	ms/evt
StrippingBetaSBs2JpsiPhiMicroLine	1395	0.0263	8.318

Bhadron

Line name	N evnts	Rate, %	ms/evt
StrippingB2D0KD2Pi0HHMergedBeauty2CharmLine	2081	0.0393	6.444
StrippingB2D0KD2Pi0HHResolvedBeauty2CharmLine	15353	0.2900	3.859
StrippingB2D0PiD2Pi0HHMergedBeauty2CharmLine	1875	0.0354	0.116
StrippingB2D0PiD2Pi0HHResolvedBeauty2CharmLine	13893	0.2624	0.537
StrippingB2D0DBeauty2CharmLine	6276	0.1185	3.618
StrippingLb2D0Lambda0DDD02HHBeauty2CharmLine	171	0.0032	0.695
StrippingLb2D0Lambda0LLD02HHBeauty2CharmLine	83	0.0016	0.717

Line name	N evnts	Rate, %	ms/evt
StrippingB02DDFULLDSTBeauty2CharmLine	1211	0.0229	1.292
StrippingB02DDUPFULLDSTBeauty2CharmLine	5	0.0001	1.912
StrippingB02D0D0D02K3PiUPFULLDSTBeauty2CharmLine	40	0.0008	4.622
StrippingB02D0PPbarD2HHFULLDSTBeauty2CharmLine	887	0.0168	0.770
StrippingB2D0PiD2HHHHTIGHTBeauty2CharmLine	1157	0.0219	4.357
StrippingB2D0PiPiPiD2HHTIGHTBeauty2CharmLine	1604	0.0303	0.691
StrippingB2D0KD2KSPi0HHLLMergedBeauty2CharmLine	125	0.0024	0.217
StrippingB2D0KD2KSPi0HHDDMergedBeauty2CharmLine	32	0.0006	0.248
StrippingB2D0KD2KSPi0HHLLResolvedBeauty2CharmLine	887	0.0168	0.969
StrippingB2D0KD2KSPi0HHDDResolvedBeauty2CharmLine	296	0.0056	1.620
StrippingB2D0PiD2KSPi0HHLLMergedBeauty2CharmLine	114	0.0022	0.076
StrippingB2D0PiD2KSPi0HHDDMergedBeauty2CharmLine	28	0.0005	0.070
StrippingB2D0PiD2KSPi0HHLLResolvedBeauty2CharmLine	595	0.0112	0.103
StrippingB2D0PiD2KSPi0HHDDResolvedBeauty2CharmLine	258	0.0049	0.085

Bhadron

Line name	N evnts	Rate, %	ms/evt
StrippingBc3pppiForBc3h	579	0.0109	9.010
StrippingBc3ppkForBc3h	190	0.0036	0.561
StrippingBc3piForBc3h	2405	0.0454	0.814
StrippingBc3kForBc3h	138	0.0026	0.706
StrippingBc3kpiForBc3h	2221	0.0420	0.113

Charm

Line name	N evnts	Rate, %	ms/evt
StrippingXicHHHTheta2PKS0Line	12275	0.2319	2.096

Line name	N evnts	Rate, %	ms/evt
StrippingBetac2PhiPBetac2PhiPLine	1411	0.0267	1.402

Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingXibcXibc2JpsiKp	1995	0.0377	0.570
StrippingXibcLb2JpsiKp	1052	0.0199	0.072
StrippingXibcX2JpsiProtonGoodPointing	3095	0.0585	0.137

Calib

Calibration

Line name	N evnts	Rate, %	ms/evt
StrippingBu2LcippiLc2KpiB2LcpXLc2KpiLine	476	0.0090	9.328
StrippingBd2LcippiLc2KpiB2LcpXLc2KpiLine	2202	0.0416	0.056
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	0.0001	1.054
StrippingTrackEffMuonTT_ZLine2	7	0.0001	0.479
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	1558	0.0294	0.048
StrippingTriggerValidationD02KPi_NoRecoLine	498	0.0094	0.055

Charm

Charm

Line name	N evnts	Rate, %	ms/evt
StrippingD2KS0HPionLine	1052	0.0199	0.468
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	5195	0.0981	1.457
StrippingD2XMuMu_K3PiLine	2560	0.0484	0.570
StrippingD2XMuMu_PiPiPiPiLine	3238	0.0612	1.557
StrippingD2XMuMu_Lambdac2PMuMuLine	0	0.0000	0.000
StrippingD2XMuMu_Lambdac2PPiPiLine	0	0.0000	0.000
StrippingD2PiPi0_eegammaPiPi0PromptLine	7196	0.1359	6.612
StrippingD2PiPi0_eegammaKPi0PromptLine	4093	0.0773	1.533
StrippingD2PiPi0_eegammaPiEtaPromptLine	4804	0.0907	0.356
StrippingD2PiPi0_eegammaKEtaPromptLine	2794	0.0528	0.195
StrippingD2PiPi0_eegammaPiEtaPrimePromptLine	8892	0.1680	0.307
StrippingD2PiPi0_eegammaKEtaPrimePromptLine	7125	0.1346	0.175
StrippingD2PiPi0_eegammaSemiLeptonicLine	1111	0.0210	0.227
StrippingDstarToHHPi0_Kpipi0_R_Line	0	0.0000	0.944
StrippingDstarToHHPi0_Kpipi0WS_R_Line	0	0.0000	0.068
StrippingDstarToHHPi0_pipipi0_R_Line	0	0.0000	0.065
StrippingDstarToHHPi0_KKpi0_R_Line	0	0.0000	0.064
StrippingDstarToHHPi0_Kpipi0_M_Line	0	0.0000	0.063
StrippingDstarToHHPi0_pipipi0_M_Line	0	0.0000	0.064
StrippingDstarToHHPi0_KKpi0_M_Line	0	0.0000	0.066
StrippingDstarToHHPi0_Kpipi0_R_WIDEMASS_Line	0	0.0000	0.053
StrippingB2ppipiSigmacmm_Lcpi_PartReco_Line	12398	0.2342	0.553
StrippingB2ppipiSigmacmm_Lcpi_PartRecoWS_Line	9110	0.1721	0.059
StrippingB2ppipiSigmacmm_Lcpi_Closed_Line_FourPart	372	0.0070	0.060
StrippingB2ppipiSigmacmm_Lcpi_Closed_Line_FourPart_WS	251	0.0048	0.058
StrippingDstarPromptWithD02HHMuMuControlLine	9597	0.1813	2.075
StrippingDstarD0ToKsHHPi0_Kspipipi0_LLResolved_Line	0	0.0000	0.070
StrippingDstarD0ToKsHHPi0_Kspipipi0_DDResolved_Line	0	0.0000	0.066
StrippingDstarD0ToKsHHPi0_Kspipipi0_LLMerged_Line	0	0.0000	0.066
StrippingDstarD0ToKsHHPi0_Kspipipi0_DDmerged_Line	0	0.0000	0.065

Line name	N evnts	Rate, %	ms/evt
StrippingB2ppipiSigmacmm_Lcpi_FULLLDST_PartReco_Line	607	0.0115	0.584
StrippingB2ppipiSigmacmm_Lcpi_FULLLDST_PartRecoWS_Line	415	0.0078	0.549

StrippingStatisticsStripping20r1p2Test2 < LHCb < TWiki

StrippingB2ppipiSigma $cmm_Lcpi_FULLDST_Closed_Line_FourPart$	372	0.0070	9.739
StrippingB2ppipiSigma $cmm_Lcpi_FULLDST_Closed_Line_FourPart_W$	251	0.0048	0.078
Strippingb2D0MuXKsPiPiPi0MergedLLCharmFromBSemiLine	2	0.0000	0.949
Strippingb2D0MuXKsPiPiPi0MergedDDCharmFromBSemiLine	4	0.0001	0.955
Strippingb2D0MuXKsPiPiPi0ResolvedLLCharmFromBSemiLine	34	0.0006	0.228
Strippingb2D0MuXKsPiPiPi0ResolvedDDCharmFromBSemiLine	48	0.0009	0.350
Strippingb2DstarMuXKsPiPiPi0MergedLLCharmFromBSemiLine	0	0.0000	0.066
Strippingb2DstarMuXKsPiPiPi0MergedDDCharmFromBSemiLine	2	0.0000	0.065
Strippingb2DstarMuXKsPiPiPi0ResolvedLLCharmFromBSemiLine	11	0.0002	0.064
Strippingb2DstarMuXKsPiPiPi0ResolvedDDCharmFromBSemiLine	15	0.0003	0.064

Charmless

Bhadron

Line name	N evnts	Rate, %	ms/evt
StrippingLb2V0hDDLLine	879	0.0166	11.050
StrippingLb2V0hLLLLine	383	0.0073	3.381
StrippingLb2V0hhDDLLine	3557	0.0672	0.421
StrippingLb2V0hhLLLLine	1593	0.0301	0.240
StrippingB2XEtaB2etapKSLLLLine	3929	0.0742	4.059
StrippingB2XEtaB2etapKSDDLLine	3142	0.0594	2.564
StrippingB2XEtaB2eta3piKSLLLLine	5048	0.0954	0.570
StrippingB2XEtaB2eta3piKSDDLLine	2387	0.0451	0.231
StrippingB2XEtaLb2etapLLLLine	1678	0.0317	1.257
StrippingB2XEtaLb2etapLDDLLine	1491	0.0282	0.454
StrippingB2XEtaLb2eta3piLLLLine	2012	0.0380	0.220
StrippingB2XEtaLb2eta3piLDDLLine	1247	0.0236	0.151

Line name	N evnts	Rate, %	ms/evt
StrippingBetaSQ2B4piSelectionLine	5569	0.1052	1.767
StrippingBetaSQ2B3piSelectionLine	4375	0.0826	0.257
StrippingBs2Phif0Line	340	0.0064	1.674

QEE

Line name	N evnts	Rate, %	ms/evt
StrippingBjets2B4jetLine	528	0.0100	0.465
StrippingBjets2B3jetLine	922	0.0174	0.057
StrippingBjets1B4jetLine	229	0.0043	4.309
StrippingBjets1B2jethighLinePS	641	0.0121	0.048
StrippingBjets1B2jetlowLinePS	1560	0.0295	0.040

EW

Line name	N evnts	Rate, %	ms/evt
StrippingHighPtTopoJets10000	2406	0.0455	0.037
StrippingHighPtTopoJets1000	1440	0.0272	0.024
StrippingHighPtTopoJets20000_Cone55	1470	0.0278	0.990
StrippingLowMultCEP_D2KpPipPim_line	29	0.0006	0.061
StrippingLowMultCEP_D2KmPipPip_line	18	0.0003	0.052
StrippingLowMultCEP_ChiC2KK_line	25	0.0005	0.052
StrippingLowMultCEP_ChiC2PiPi_line	109	0.0021	0.051
StrippingLowMultCEP_ChiC2KpKpPimPim_line	6	0.0001	0.052
StrippingLowMultCEP_ChiC2KpKmPipPim_line	16	0.0003	0.050
StrippingLowMultCEP_ChiC2KKKK_line	1	0.0000	0.051
StrippingLowMultCEP_ChiC2PiPiPiPi_line	40	0.0008	0.051
StrippingLowMultCEP_D0D0_line	0	0.0000	0.051
StrippingLowMultCEP_D0D0bar_line	0	0.0000	0.050
StrippingLowMultCEP_DpDm_line	0	0.0000	0.050
StrippingLowMultCEP_D0Dp_line	0	0.0000	0.051
StrippingLowMultCEP_DpDp_line	0	0.0000	0.051
StrippingLowMultCEP_KpKm_line	20	0.0004	0.039
StrippingLowMultCEP_KpKp_line	3	0.0001	0.038
StrippingLowMultCEP_LMR2KPi_line	6	0.0001	0.039
StrippingLowMultCEP_LMR2KK_line	1	0.0000	0.040
StrippingLowMultCEP_LMR2PiPi_line	19	0.0004	0.040
StrippingLowMultCEP_ChiC2KKWS_line	1	0.0000	0.039
StrippingLowMultCEP_ChiC2PiPiWS_line	6	0.0001	0.039
StrippingLowMultCEP_ChiC2KpKpPipPipWS_line	0	0.0000	0.039
StrippingLowMultCEP_ChiC2KpKpPipPimWS_line	0	0.0000	0.038
StrippingLowMultCEP_ChiC2KpKmPipPipWS_line	0	0.0000	0.038
StrippingLowMultCEP_ChiC2KKKKWS_line	0	0.0000	0.039
StrippingLowMultCEP_ChiC2PiPiPiPiWS_line	3	0.0001	0.039
StrippingWMuJetsLine	1541	0.0291	0.965
StrippingSbarSCorrelationsPhiLine	966	0.0183	0.050
StrippingSbarSCorrelationsF2Line	38	0.0007	0.265
StrippingSbarSCorrelationsLambdaCplusLine	663	0.0125	0.055
StrippingSbarSCorrelationsLambdaCminusLine	648	0.0123	0.057
StrippingWeJetsLine	3689	0.0697	2.310

RD

Line name	N evnts	Rate, %	ms/evt
StrippingB2XTau_TauTau_TOSLine	445	0.0084	1.079
StrippingB2XTau_TauTau_SB_TOSLine	117	0.0022	0.259
StrippingB2XTau_DD_TOSLine	0	0.0000	0.000
StrippingB2XTau_TauMu_TOSLine	575	0.0109	0.830
StrippingB2XTau_TauMu_SB_TOSLine	163	0.0031	0.207
StrippingB2XTau_DMu_TOSLine	0	0.0000	0.000
StrippingB2XTau_DPi_TOSLine	1081	0.0204	0.393
StrippingB2XTau_TauTau_TISLine	160	0.0030	3.021
StrippingB2XTau_DD_TISLine	0	0.0000	0.000
StrippingB2XTau_TauMu_TISLine	106	0.0020	0.074
StrippingB2XTau_DMu_TISLine	0	0.0000	0.000
StrippingB2XTau_DPi_TISLine	313	0.0059	0.364
StrippingB2XTau_TauTau_SameSign_TOSLine	273	0.0052	0.058
StrippingB2XTau_DD_SameSign_TOSLine	0	0.0000	0.000
StrippingB2XTau_TauMu_SameSign_TOSLine	221	0.0042	0.055
StrippingB2XTau_DMu_SameSign_TOSLine	0	0.0000	0.000
StrippingB2XTau_DPi_SameSign_TOSLine	663	0.0125	0.333
StrippingB2XTau_TauTau_SameSign_TISLine	110	0.0021	0.074
StrippingB2XTau_DD_SameSign_TISLine	0	0.0000	0.000
StrippingB2XTau_TauMu_SameSign_TISLine	72	0.0014	0.064
StrippingB2XTau_DMu_SameSign_TISLine	0	0.0000	0.000
StrippingB2XTau_DPi_SameSign_TISLine	273	0.0052	0.306

Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingB2XMuMu_Line	1420	0.0268	7.536
StrippingB2XMuMu_HadronicLine	1443	0.0273	10.502
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	1316	0.0249	2.337
StrippingInflaton2MuMu_Bd2InflatonRhoLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bu2InflatonKDnLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bs2InflatonPhiDnLine	0	0.0000	0.000
StrippingInflaton2MuMu_Bd2InflatonKstDnLine	2	0.0000	0.399
StrippingInflaton2MuMu_Bd2InflatonRhoDnLine	0	0.0000	0.000
StrippingRareStrangeSigmaPMuMuLine	544	0.0103	1.195
StrippingRareStrangeSigmaPEELine	959	0.0181	2.785
StrippingRareStrangeSigmaPMuMuLFVLine	99	0.0019	0.072
StrippingRareStrangeK3PiLine	0	0.0000	0.000

Leptonic

Line name	N evnts	Rate, %	ms/evt
StrippingB2PhiGamma_B2VG_Line	583	0.0110	1.071
StrippingB2KstarGamma_B2VG_Line	2632	0.0497	0.267
StrippingBu2LLK_eeLine	423	0.0080	17.689
StrippingBu2LLK_eeLine2	394	0.0074	3.333
StrippingBu2LLK_mmLine	1291	0.0244	1.030
StrippingBu2LLK_meLine	665	0.0126	0.897

SL

Charm

Line name	N evnts	Rate, %	ms/evt
StrippingPhiToKSKS_PhiToKKLine	306	0.0058	0.055
StrippingPhiToKSKS_PhiToKsKs_LLLLLine	419	0.0079	1.908
StrippingPhiToKSKS_PhiToKsKs_LLDDLine	1345	0.0254	0.314
StrippingPhiToKSKS_JPsiToKKLine	610	0.0115	0.103
StrippingPhiToKSKS_JPsiToKsKs_LLLLLine	756	0.0143	0.076
StrippingPhiToKSKS_JPsiToKsKs_LLDDLine	1952	0.0369	0.069
Strippingb2D0MuXB2DMuNuXLine	7176	0.1355	0.419
StrippingDstarOfb2D0MuXB2DMuNuXLine	2300	0.0434	0.053
Strippingb2DsPi_PhiPi_fakesB2DMuNuXLine	2449	0.0463	1.337

Semileptonic

Line name	N evnts	Rate, %	ms/evt
StrippingB2XuMuNuBs2KLine	1534	0.0290	9.476
StrippingB2XuMuNuBs2KSSLine	2247	0.0424	0.266
StrippingB2XuMuNuBu2RhoLine	1015	0.0192	0.506
StrippingB2XuMuNuBu2RhoWSLine	652	0.0123	0.234
StrippingB2XuMuNuBu2RhoSBLine	1823	0.0344	0.282
StrippingB2XuMuNuBu2KshSSMu_SSMuminusLine	2202	0.0416	0.292
StrippingB2XuMuNuBu2KshOSMu_SSMuplusLine	2060	0.0389	0.243

This topic: LHCb > StrippingStatisticsStripping20r1p2Test2

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