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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\_2011Data\_MagDn\_New.py. Event sizes have been re-calculated using this 2011 test sample (previous 2011 tests used event sizes calculated on the 2012 sample).

WG / Stream	Bhadron	BhadronCompleteEvent	Calibration	Charm	CharmCompleteEvent	CharmToBeSwum	Dimuon	EW	Leptonic	MiniBias	PID	Radiative	Semileptonic	Total, Mb/s	Time, ms/event
Event size, kb	8.8	95.4	24.7	6.9	116.5	36.5	96.2	97.0	4.8	47.5	2.4	101.7	88.0		
B2CC							2.70							2.70	17.9
B2OC														0.00	0.0
BandQ				0.22	0.03		0.54							0.79	19.6
Calib											0.05			0.05	15.0
Charm				0.27	0.27									0.54	59.3
Charmless	0.01	0.18												0.19	25.2
QEE								0.62						0.62	13.1
RD							0.37		0.02			0.50	0.06	0.95	53.5
SL		0.30											0.80	1.10	17.8
All	0.01	0.48		0.47	0.28		3.45	0.62	0.02		0.05	0.50	0.84	6.72	118.1

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

WG	Stream	Line name	N evnts	Rate, %
B2CC	Dimuon	StrippingBetaSJpsi2MuMuDetachedLine	13613	0.3025
QEE	EW	StrippingHighPtGammaLine	2281	0.0507

## Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingBetaSJpsi2MuMuLine	1036	0.0230	0.053
StrippingBetaSJpsi2MuMuDetachedLine	13613	0.3025	3.336
StrippingBetaSBu2JpsiKPrescaledLine	862	0.0192	0.092
StrippingBetaSBs2JpsiPhiPrescaledLine	766	0.0170	0.114
StrippingBetaSBs2JpsiPhiDetachedLine	1393	0.0310	0.464
StrippingBetaSBd2JpsiKstarPrescaledLine	729	0.0162	0.104
StrippingBetaSBd2JpsiKstarDetachedLine	2072	0.0460	1.187
StrippingBetaSBd2JpsiKsPrescaledLine	923	0.0205	0.538
StrippingBetaSBs2Jpsif0NoIPPrescaledLine	738	0.0164	0.069
StrippingBetaSBs2Jpsif0NoIPDetachedLine	1860	0.0413	1.262
StrippingBetaSBs2Jpsi4PiLine	198	0.0044	0.294
StrippingBetaSBs2JpsiEtaPrescaledLine	1257	0.0279	0.170
StrippingBetaSBs2JpsiEtaDetachedLine	1888	0.0420	0.904
StrippingBetaSBs2JpsiEtapPrescaledLine	1090	0.0242	0.094
StrippingBetaSBs2JpsiEtapDetachedLine	1586	0.0352	1.134
StrippingBetaSBd2JpsiPi0PrescaledLine	1063	0.0236	0.099
StrippingBetaSBd2JpsiRho0PrescaledLine	680	0.0151	0.058
StrippingBetaSBd2JpsiRho0DetachedLine	1797	0.0399	0.872
StrippingBetaSPsi2SMuMu_Bs2Psi2SPhiMuMuDetatchedLine	114	0.0025	0.481
StrippingBetaSPsi2SMuMu_Bs2Psi2SPhiMuMuPrescaledLine	686	0.0152	0.054
StrippingBetaSPsi2S_Bs2Psi2SPhiJpsiPiPiLine	74	0.0016	0.159

## Charm

Line name	N evnts	Rate, %	ms/evt
StrippingXicHHHXic2PKPiLine	7909	0.1758	0.630
StrippingXicHHHXic2PKKLine	3969	0.0882	0.583
StrippingXicHHHTheta2PKS0Line	11500	0.2556	2.424
StrippingXicHHHXic2KLamLine	4185	0.0930	2.837
StrippingXicc+ForPromptCharm	2030	0.0451	2.161
StrippingXicc++ForPromptCharm	905	0.0201	0.056
StrippingDsLamCForPromptCharm	90	0.0020	0.048

Line name	N evnts	Rate, %	ms/evt
StrippingBetac2PhiPBetac2PhiPLine	0	0.0000	0.073
StrippingCharmAndWForPromptCharm	30	0.0007	0.160
StrippingDiMuonAndWForPromptCharm	194	0.0043	0.047

## Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingFullDSTDiMuonJpsi2MuMuDetachedMinusLine	2153	0.0478	3.336
StrippingFullDSTDiMuonPsi2MuMuDetachedMinusLine	757	0.0168	0.367
StrippingChiCJpsiGammaConvChibLine	153	0.0034	0.073
StrippingChiCJpsiGammaConvChicLine	2060	0.0458	0.227

# Calib

## PID

Line name	N evnts	Rate, %	ms/evt
StrippingSigmacForPIDLine	17218	0.3826	8.418
StrippingCharmFromBSemiForProtonPID_LbToLcMuNuLcToPKPi	2093	0.0465	0.444

# Charm

## Charm

Line name	N evnts	Rate, %	ms/evt
StrippingDstarPromptWithD02HHHHNoPIDLine	389	0.0086	0.470
StrippingDstarD2KShhKKLLLine	0	0.0000	0.000
StrippingDstarD2KShhKPLLLine	1084	0.0241	0.819
StrippingDstarD2KShhPPLLLine	0	0.0000	0.000
StrippingDstarD2KShhKKDDLine	0	0.0000	0.000
StrippingDstarD2KShhKPDDLine	2759	0.0613	1.823
StrippingDstarD2KShhPPDDLine	0	0.0000	0.000
StrippingDstarPromptWithD02HHHHLLine	848	0.0189	3.198
StrippingDstarPromptWithD02HHMuMuLine	1602	0.0356	3.687
StrippingD2XMuMu_KSSLLine	769	0.0171	0.872
StrippingD2XMuMu_KOSLine	1206	0.0268	0.581
StrippingD2XMuMu_PiSSLLine	986	0.0219	0.740
StrippingD2XMuMu_PiOSLine	2074	0.0461	0.913
StrippingD2XMuMu_PiCalLine	1375	0.0306	1.623
StrippingD2XMuMu_K2PiLine	901	0.0200	0.271
StrippingD2XMuMu_2KPiLine	1838	0.0408	0.590
StrippingD2XMuMu_KKLine	98	0.0022	0.725
StrippingD2XMuMu_PiPiLine	852	0.0189	1.655
StrippingD2XMuMu_KPiLine	608	0.0135	0.659
StrippingD2XMuMu_KKPiPiLine	592	0.0132	1.013
StrippingD2XMuMu_K3PiLine	244	0.0054	0.339
StrippingD2XMuMu_PiPiPiPiLine	295	0.0066	0.819
StrippingD2XMuMu_Lambdac2PMuMuLine	782	0.0174	0.714
StrippingD2XMuMu_Lambdac2PPiPiLine	2024	0.0450	0.630
Strippingb2DstarMuXKsKPiLLCharmFromBSemiLine	267	0.0059	0.292
Strippingb2DstarMuXKsKPiDDCharmFromBSemiLine	459	0.0102	0.319
Strippingb2DstarMuXKsPiPiLLCharmFromBSemiLine	349	0.0078	0.112
Strippingb2DstarMuXKsPiPiDDCharmFromBSemiLine	597	0.0133	0.132
Strippingb2DstarMuXKsKKLLCharmFromBSemiLine	70	0.0016	0.095
Strippingb2DstarMuXKsKKDDCharmFromBSemiLine	97	0.0022	0.105
Strippingb2D0MuXKsKPiLLCharmFromBSemiLine	848	0.0189	0.083
Strippingb2D0MuXKsKPiDDCharmFromBSemiLine	1829	0.0406	0.082
Strippingb2D0MuXKsPiPiLLCharmFromBSemiLine	1097	0.0244	0.083
Strippingb2D0MuXKsPiPiDDCharmFromBSemiLine	2237	0.0497	0.083
Strippingb2D0MuXKsKKLLCharmFromBSemiLine	212	0.0047	0.082
Strippingb2D0MuXKsKKDDCharmFromBSemiLine	438	0.0097	0.082
Strippingb2MuXLc2pKsLLCharmFromBSemiLine	61	0.0014	0.213
Strippingb2MuXLc2pKsDDCharmFromBSemiLine	186	0.0041	0.094
StrippingB2ppipiSigmacmm_Lcpi_PartReco_Line	9074	0.2016	0.814
StrippingB2ppipiSigmacmm_Lcpi_Closed_Line	245	0.0054	0.084
StrippingDstarPromptWithD02HHMuMuControlLine	1078	0.0240	1.399

## StrippingStatisticsStripping20r1p1Test4 &lt; LHCb &lt; TWiki

Line name	N evnts	Rate, %	ms/evt
StrippingB2ppipiSigmacmm_Lcpi_FULLDST_PartReco_Line	417	0.0093	0.386
StrippingB2ppipiSigmacmm_Lcpi_FULLDST_Closed_Line	245	0.0054	7.084
StrippingB2Xic2815Sc2455LineFullBMinusMissingLc	0	0.0000	6.792
StrippingB2Xic2815Sc2455LineFullBZeroMissingLc	0	0.0000	5.868
StrippingB2Xic2815Sc2455LineFullBMinusMissingXic	0	0.0000	0.418
StrippingB2Xic2815Sc2455LineFullBZeroMissingXic	0	0.0000	0.095
StrippingB2Xic2815Sc2455LinePartialBMinusMissingLc	2	0.0000	0.077
StrippingB2Xic2815Sc2455LinePartialBZeroMissingLc	10	0.0002	0.081
StrippingB2Xic2815Sc2455LinePartialBMinusMissingXic	523	0.0116	0.076
StrippingB2Xic2815Sc2455LinePartialBZeroMissingXic	637	0.0142	0.077
StrippingD2PiPi0_eegammaPromptLine	354	0.0079	5.037
StrippingD2PiPi0_eegammaSemiLeptonicLine	14	0.0003	0.177



# Charmless

## Bhadron

Line name	N evnts	Rate, %	ms/evt
StrippingB2TwoBaryonsB2PPbarLine	156	0.0035	4.585
StrippingButo5h_5pi_exclLine	211	0.0047	2.771
StrippingButo5h_K4pi_exclLine	721	0.0160	3.336

Line name	N evnts	Rate, %	ms/evt
StrippingB2KSKpiDDLLine	492	0.0109	2.280
StrippingB2KSKpiLLLine	540	0.0120	1.260
StrippingB2KSKpiLDLine	146	0.0032	1.967
StrippingB2KSKpiDDSameSignLine	185	0.0041	1.317
StrippingB2KSKpiLLSameSignLine	529	0.0118	0.733
StrippingB2KSKpiLDSameSignLine	185	0.0041	0.309

# QEE

## EW

Line name	N evnts	Rate, %	ms/evt
StrippingLowMultCEP_PHI2KK_line	3	0.0001	0.898
StrippingLLP2MuXHighPTHHighIPMuonLine	1994	0.0443	0.594
StrippingHighPtGammaLine	2281	0.0507	5.175
StrippingHighPtGammaLooseLine	1581	0.0351	0.047

# RD

## Dimuon

Line name	N evnts	Rate, %	ms/evt
StrippingBLVLinesLa2KmuLine	710	0.0158	1.109
StrippingBLVLinesLb2KmuLine	304	0.0068	0.272
StrippingBLVLinesLb2DmuLine	244	0.0054	6.495
StrippingBLVLinesLb2DsmuLine	288	0.0064	8.970
StrippingBLVLinesB2LcmuLine	718	0.0160	4.518
StrippingBLVLinesLb2LcpiLine	270	0.0060	0.066
StrippingBLVLinesB2DpiLine	198	0.0044	0.064
StrippingBLVLinesBs2DspiLine	160	0.0036	0.063
StrippingLc23MuLinesLc23muLine	552	0.0123	0.128
StrippingLc23MuLinesLc2pKpiLine	274	0.0061	0.052
StrippingInflaton2MuMu_Bu2InflatonKDnLine	8	0.0002	0.159
StrippingInflaton2MuMu_Bs2InflatonPhiDnLine	0	0.0000	0.053
StrippingInflaton2MuMu_Bd2InflatonKstDnLine	3	0.0001	0.059
StrippingInflaton2MuMu_Bd2InflatonRhoDnLine	1	0.0000	0.070

## Leptonic

Line name	N evnts	Rate, %	ms/evt
StrippingInflaton2MuMuForMicroLongLine	2113	0.0470	4.102
StrippingInflaton2MuMuForMicroDownstreamLine	1165	0.0259	0.323

## Radiative

Line name	N evnts	Rate, %	ms/evt
StrippingBd2eeKstarBDTLine2	1703	0.0379	7.345
StrippingB2PhiGammaConv_B2VG_Line	28	0.0006	2.977
StrippingB2RhoGamma_B2VG_Line	784	0.0174	1.406
StrippingB2KstarGammaConv_B2VG_Line	186	0.0041	0.391
StrippingLb2LGammaLb2LGammaLine	1775	0.0395	8.037
StrippingB2JpsiKGamma_B2VPG_Line	15	0.0003	0.091

## Semileptonic

Line name	N evnts	Rate, %	ms/evt
StrippingBu2MuNuLine	605	0.0135	0.105

# SL

Line name	N evnts	Rate, %	ms/evt
StrippingB2DHHHwD2PiPiB2DHHHForBXXLine	1764	0.0392	1.858
StrippingLb2LcHHHwLc2KPiB2DHHHForBXXLine	1105	0.0246	1.417

## Semileptonic

Line name	N evnts	Rate, %	ms/evt
StrippingLb2pMuNuLowq2Line	1873	0.0416	2.334
StrippingLb2pMuNuSSLowq2Line	579	0.0129	0.130
StrippingLb2pMuNuHighq2Line	2029	0.0451	0.219
StrippingLb2pMuNuSSHhighq2Line	856	0.0190	0.177
StrippingCharmFromBSemiForHadronAsy_B2DstarMuD0to3piRS	790	0.0176	3.874
StrippingCharmFromBSemiForHadronAsy_B2DstarMuD0to3piWS	354	0.0079	0.141
StrippingCharmFromBSemiForHadronAsy_B2DstarMuD0toK2piRS	737	0.0164	0.461
StrippingCharmFromBSemiForHadronAsy_B2DstarMuD0toK2piWS	336	0.0075	0.179
StrippingCharmFromBSemiForHadronAsy_LbToLcStarMuLcToKpiRS	219	0.0049	0.163
StrippingCharmFromBSemiForHadronAsy_LbToLcStarMuLcToKpiWS	254	0.0056	0.087
Strippingb2D0MuXFakeB2DMuForTauMuLine	1599	0.0355	0.331

This topic: LHCb > StrippingStatisticsStripping20r1p1Test4

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