PHENIX Trigger Configuration Proton-Proton 200 GeV : 04-16-2004 (Nagle)

Assume up to 3 kHz bandwidth through DAQ, but without multi-event buffering try to keep things below 2kHz

VERTEX CUTS
BBCLL1>=1 (+/- 30 cm)
ZDCLL1Narrow (+/- 10 cm)
ZDCLL1Wide (+/- 30 cm)
ZDCBlueLogic (+/- 450 cm)

ERT_2x2 with 0.8 GeV threshold
ERT_4x4a with 2.1 GeV threshold
ERT_4x4b with 2.8 GeV threshold
ERT_4x4c with 1.4 GeV threshold

					BBCLL1			BBCLL1			BBCLL1			BBCLL1	
					300000			200000			100000			50000	
	Trigger		Rejection	Raw	Prescale	Rate	Raw	Prescale	Rate	Raw	Prescale	Rate	Raw	Prescale	Rate
1	Clock			10000000	999999	10	10000000	1000002	10	10000000	1000002	10	10000000	1000002	10
2	BBCLL1		1.0	300000	3000	100	200000	2000	100	100000	1000	100	50000	500	100
3	BBCLL1 (noVertexCut)		0.5	600000	60000	10	400000	40000	10	200000	20000	10	100000	10000	10
4	ZDCLL1Wide		25.0	12000	1200	10	8000	800	10	4000	400	10	2000	200	10
5	ZDCBlueLogicWide		35.0	8571	900	10	5714	600	10	2857	300	9	1429	150	9
6	ZDCLL1Narrow		10.0	30000	3000	10	20000	2000	10	10000	1000	10	5000	500	10
7	(BBCLL1>=1 & (ZDCN | ZDCS)) Local_Polarimeter		9.0	33333	3000	11	22222	2000	11	11111	1000	11	5556	500	11
8	ERT_2x2 & BBCLL1		50.0	6000	1000006	0	4000	60	66	2000	8	222	1000	2	333
9	ERT_Gamma1 & BBCLL1 [~2.1 GeV]		500.0	600	1	300	400	0	400	200	0	200	100	0	100
10	ERT_Gamma2 [2.8 GeV]		700.0	429	0	429	286	0	286	143	0	143	71	0	71
11	ERT_Gamma2 & BBCLL1 [~2.8 GeV]		2100.0	143	0	143	95	0	95	48	0	48	24	0	24
12	ERT_Gamma3 & BBCLL1 [~1.4 GeV]		100.0	3000	10	273	2000	5	333	1000	2	333	500	0	500
13	ERT_Electron & BBCLL1 [~800 MeV]		540.0	556	0	556	370	0	370	185	0	185	93	0	93
14	MUID_LL1_N_1Deep & BBCLL1	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
15	MUID_LL1_S_1Deep & BBCLL1	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
16	MUID_LL1_N_2Deep & BBCLL1	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
17	MUID_LL1_S_2Deep & BBCLL1	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
18	MUID_BLT_N_1D1S & BBCLL1		2800.0	107	0	107	71	0	71	36	0	36	18	0	18
19	MUID_BLT_N_1D & BBCLL1		150.0	2000	5	333	1333	3	333	667	1	333	333	0	333
20	MUID_BLT_S_1D1S & BBCLL1		2080.0	144	0	144	96	0	96	48	0	48	24	0	24
21	MUID_BLT_S_1D & BBCLL1		610.0	492	1	246	328	1	164	164	0	164	82	0	82
22	(Y+B+ + Y-B-) : GL1P check		OFF			0			0			0			0
23	(Y+B- + Y-B+) : GL1P check		OFF			0			0			0			0
24	Y0B0 : GL1P check		OFF			0			0			0			0
25	FORWARD & (MUID_BLT_S_1D)	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
26	FORWARD & BBCLL1	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
27	FORWARD	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
28	RLT	test	1.0	300000	1000006	0	200000	1000006	0	100000	1000006	0	50000	1000006	0
29	PPG(Test Pulse)				0	1		0	1		0	1		0	1
30	PPG(Laser)				0	1		0	1		0	1		0	1
31	RLT & BBCLL1	test	1.0	300000	1000006	0	200000	1000006	0	100000		100000	50000		50000
						2695			2379			1876			1741

GL1P selections

Ia	BBCLL1>=1		Set I are the top priority scalers
Ib	BBCLL1>=1 (novertex)		
Ic	ZDCLL1Wide		
Id	ZDCLL1Narrow		