

L2 Data Types and Alpha Source ID's

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DRAFT

for inputs to MBT's

GS Crate/ID Software Prefix	Global <i>L2GLB</i> 32		Central Mu <i>L2MUC</i> 33		Forward Mu <i>L2MUF</i> 34		Cal <i>L2CAL</i> 35		Preshower <i>L2PS</i> 36		Tracking <i>L2CTT</i> 37								
	Contents	Data	Alpha Source	Contents	Data	Alpha Source	Contents	Data	Alpha Source	Contents	Data	Alpha Source	Contents	Data	Alpha Source #				
Pilot MBT	L1SCL*	0	0	L1SCL*	32	0	L1SCL*	64	0	L1SCL*	96	0	L1SCL*	128	0	L1SCL*	160	0	
	L1HWWFW	1	1	L1HWWFW	33	1	L1HWWFW	65	1	L1HWWFW	97	1	L1HWWFW	129	1	L1HWWFW	161	1	
	em	2	2	slic cen 1	34	2	slic fwd 1	66	2	cal 1	98	2	cps axial 1	130	2	STT1a	162	2	
	jet	3	3	slic cen 2	35	3	slic fwd 2	67	3	cal 2	99	3	cps axial 2	131	3	STT2a	163	3	
	etmiss	4	4	slic cen 3	36	4	slic fwd 3	68	4	cal 3	100	4	cps axial 3	132	4	STT3a	164	4	
	pt track	5	5	slic cen 4	37	5	slic fwd 4	69	5	cal 4	101	5	cps axial 4	133	5	STT4a	165	5	
	impact track	6	6	slic cen 5	38	6	slic fwd 5	70	6	cal 5	102	6	cps stereo nu	134	6	STT5a	166	6	
mu central	7	7	slic cen 6	39	7		71	7	cal 6	103	7	cps stereo nv	135	7	STT6a	167	7		
Assistant MBT	mu forward	8	8	slic cen 7	40	8		72	8	cal 7	104	8	cps stereo su	136	8	STT1b, L1CFT1	168	181	8
	ps central	9	9	slic cen 8	41	9		73	9	cal 8	105	9	cps stereo sv	137	9	STT2b, L1CFT2	169	182	9
	ps forward	10	10	slic cen 9	42	10		74	10	cal 9	106	10	fps north 1	138	10	STT3b, L1CFT3	170	183	10
	ps south?	11	11	slic cen 10	43	11		75	11	cal 10	107	11	fps north 2	139	11	STT4b, L1CFT4	171	184	11
	pt ctt	12	12	slic cen 11	44	12		76	12		108	12	fps south 1	140	12	STT5b, L1CFT5	172	185	12
	zvtx?	13	13		45	13		77	13		109	13	fps south 2	141	13	STT6b, L1CFT6	173	186	13
		14	14		46	14		78	14		110	14		142	14		174		
Assistant MBT #2															CFT 1	175	2		
															CFT 2	176	3		
															CFT 3	177	4		
															CFT 4	178	5		

G-link input

Outputs:
mu central

Outputs:
mu forward

Outputs:
em
jet
etmiss

Outputs:
ps central
ps forward
ps south?

Outputs:
pt track
impact track
pt CTT
zvtx?

*May label L1SCL, L1HWWFW ALL as Data Type 0, 1, regardless of crate (SCL from MBT; HWWFW from fanout...)
not clear can safely echo L1HWWFW from Global to all preprocessors

GS Crate and **GS ID** are Geographic Section crate names and ID's for use with L3 readout, unique in all of D0
Software Prefix is the class prefix used in L2 software

Data is Data Type Number, placed in header by transmitting source
Data Type is unique across all of L2

Alpha Source ID is Source ID number downloaded into MBT; determines Source ID in Alpha event Buffers
Alpha Source ID is only "unique" to a given crate
Two MBT inputs with the same Alpha Source ID will appear sequentially in that Alpha event buffer
MBT inputs are broadcast into the Alpha sequentially in order of MBT slot #