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# ANCHOR LAYER AND OFFSETS

(OVERLAY REGIONS)

Study by:

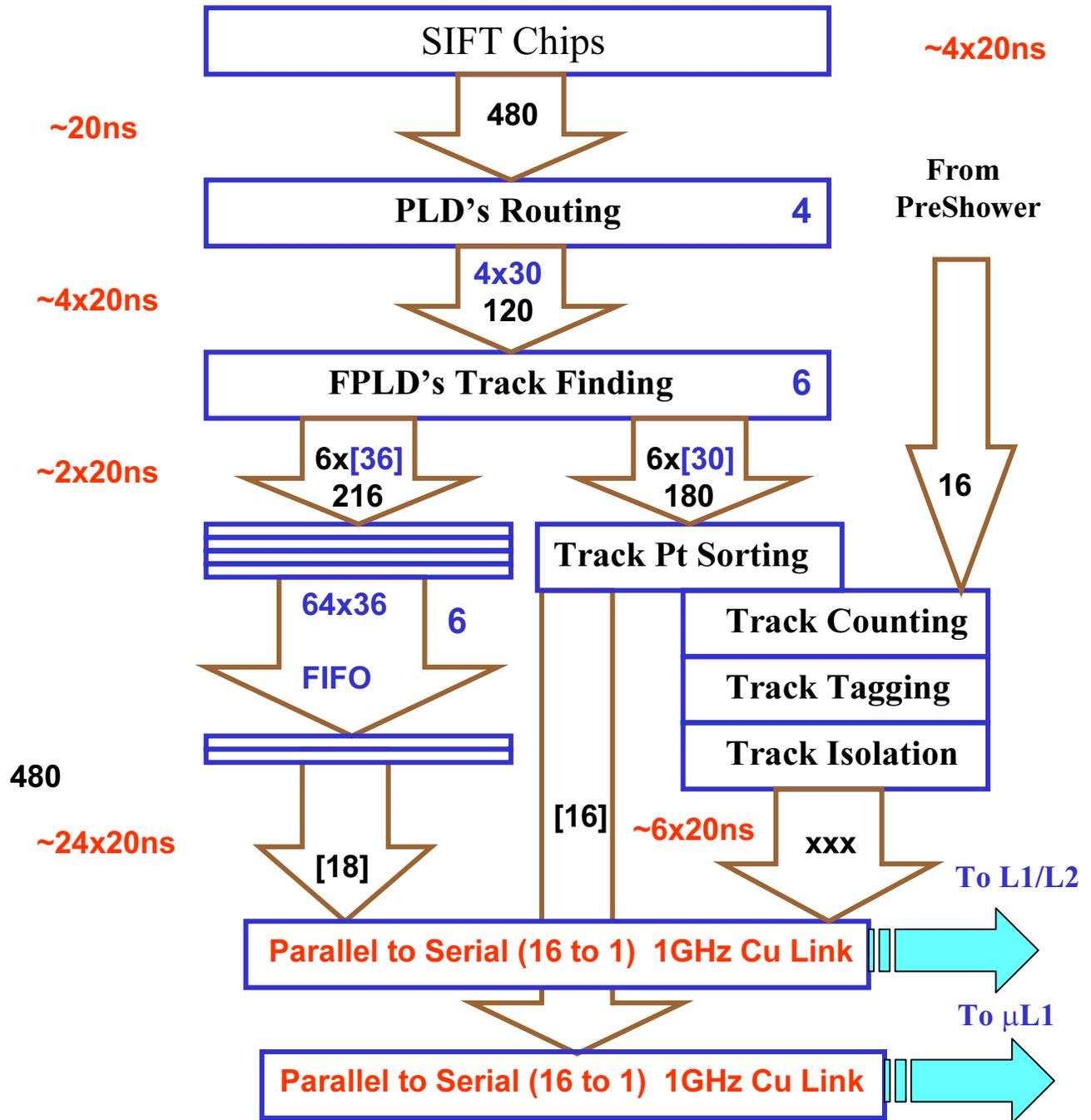
Manuel I. Martin

September 1998

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# CFT Front End

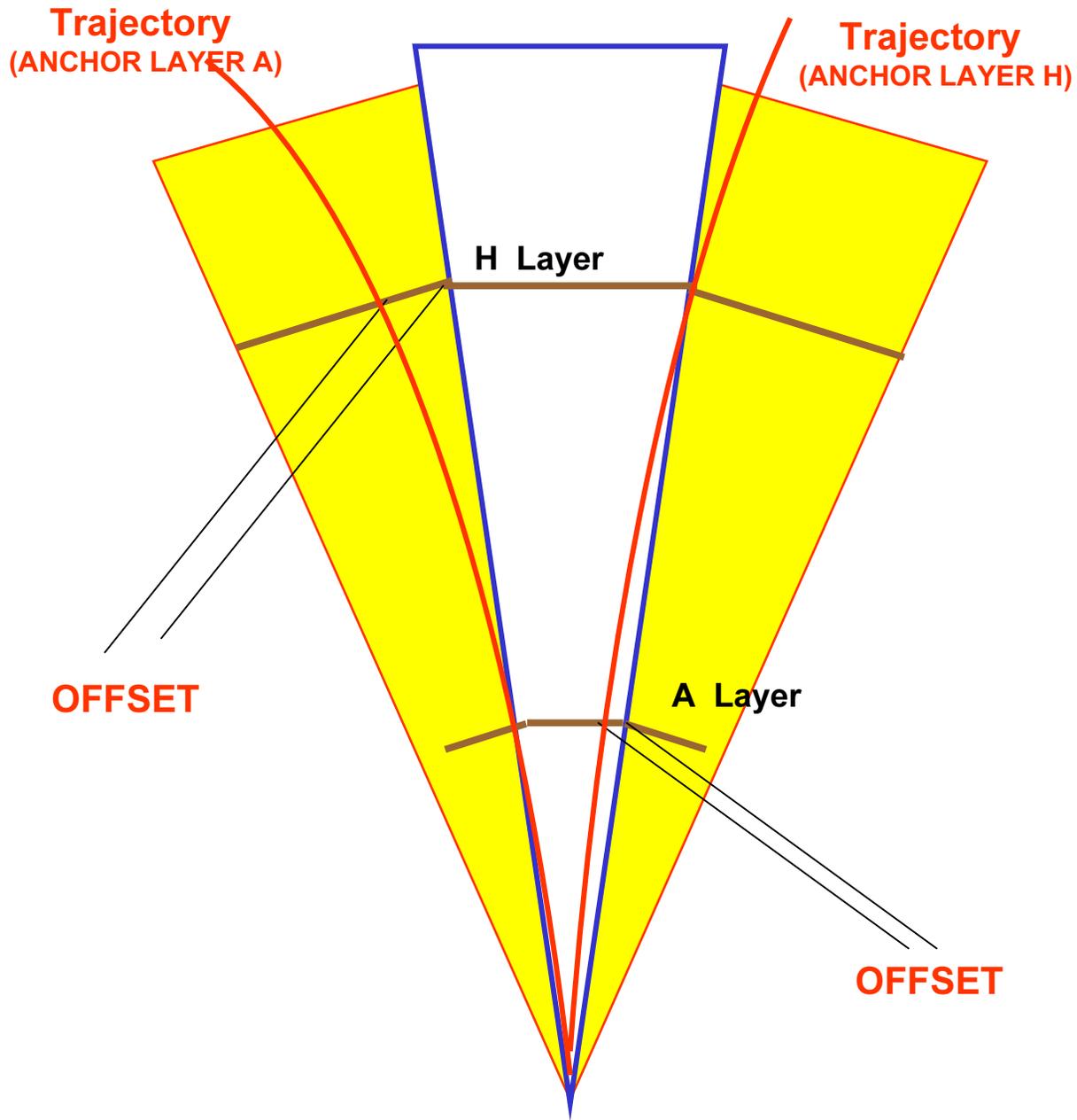
## Data Flow Diagram



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# OFFSET is function of ANCHOR LAYER



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# Minimum Offset Required as Function of Anchor Layer

ANCHOR	OFFSET									
	A	B	C	D	E	F	G	H	PS	Total
A	0	3	6	11	16	23	30	36	19	144
	4	4	8	12	16	24	32	36	20	156
B	2	0	3	7	12	18	25	30	17	114
	4	4	4	8	12	20	28	32	20	132
C	4	3	0	4	8	14	20	25	15	93
	4	4	4	4	8	16	20	28	16	104
D	6	5	3	0	4	9	15	19	13	74
	8	8	4	4	4	12	16	20	16	92
E	8	8	6	4	0	5	10	14	11	66
	8	8	8	4	4	8	12	16	12	80
F	10	10	9	7	4	0	5	8	9	62
	12	12	12	8	4	4	8	8	12	80
G	12	13	12	11	8	5	0	3	7	71
	12	16	12	12	8	8	4	4	8	84
H	13	14	14	12	10	7	2	0	6	78
	16	16	16	12	12	8	4	4	8	96

Notes.-

Numbers in black are round off from  
calculated values

Numbers in red are next multiple of 4

# OFFSETS ●●●●●●

## The Offsets

are the result of the central Magnetic Field

are function of the Layer used as Anchor

are minimum when Layer "E" is used as anchor

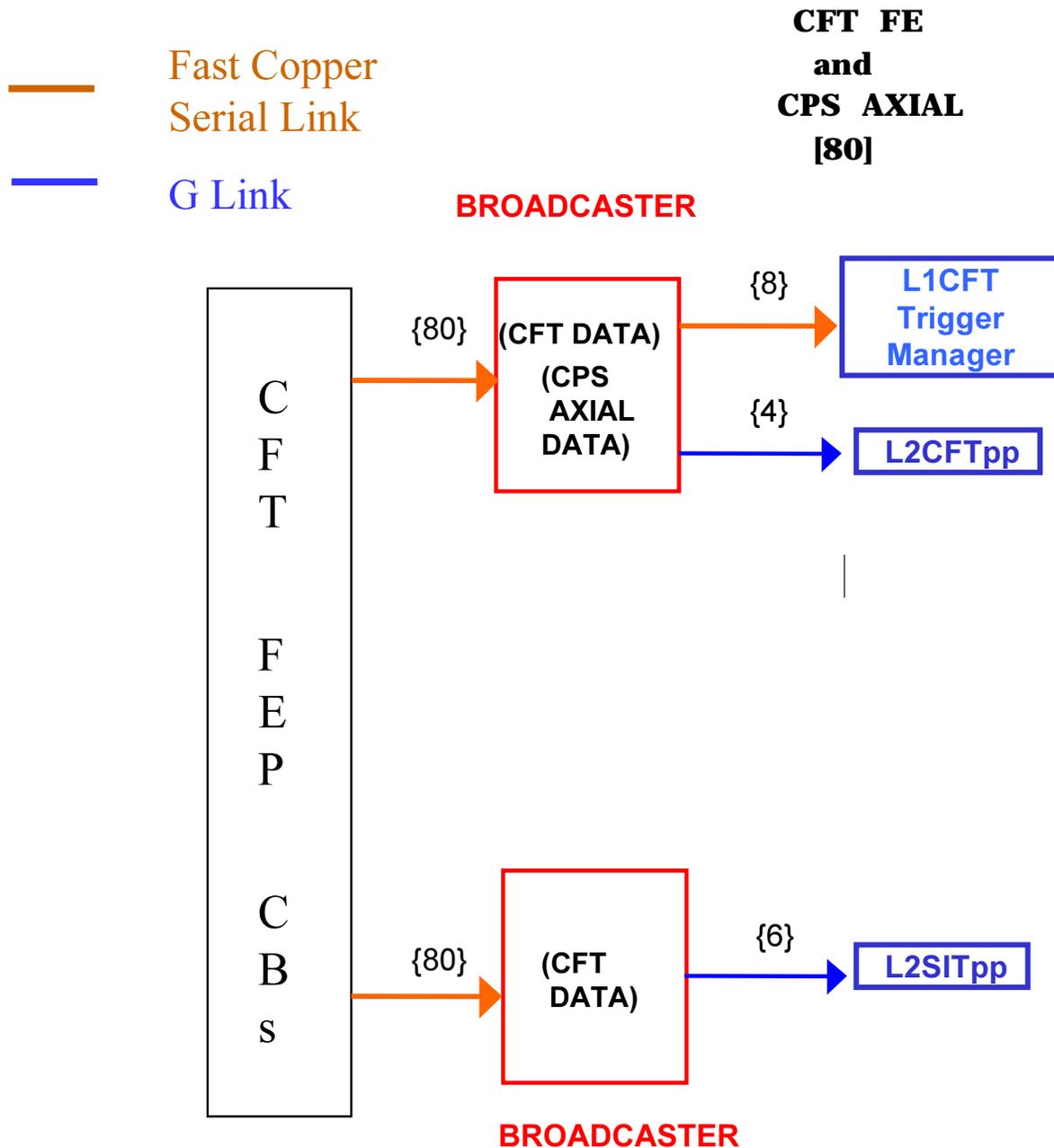
force the sharing of information between FE boards to correctly handle Trajectories

are even more accentuated when we look at the Axial CPS

of trajectories that cross Quadrant or Sextant boundaries are correctly handled by the same mechanism used by the FE as long as these Trajectories are not extrapolated to the Si or the  $\mu$  detectors

when other Trackers are taken into account, need special treatment better handled by the **BROADCASTER SYSTEM**

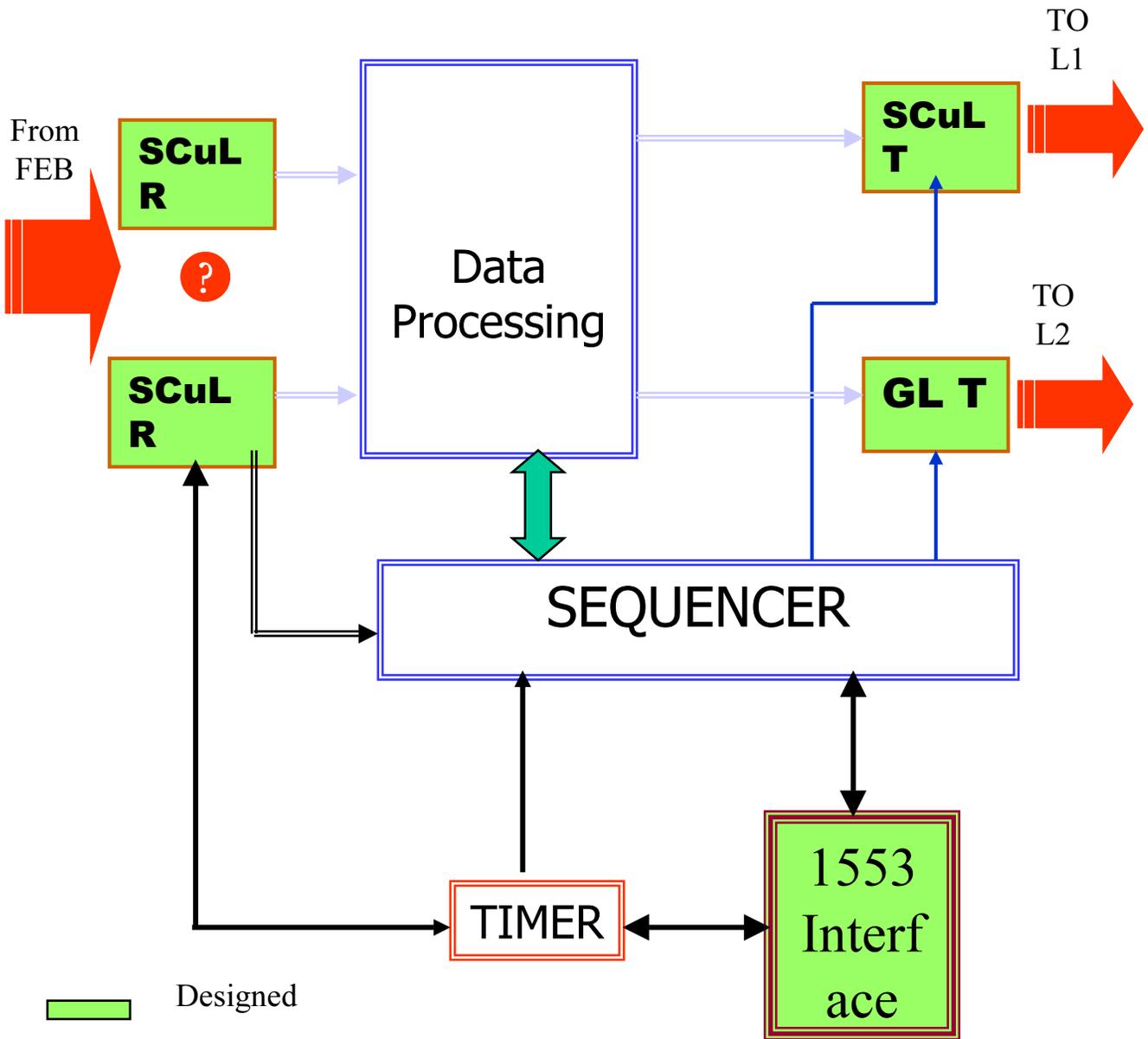
# LINKS between FE and BROADCASTER BROADCASTER and TRIGGERS



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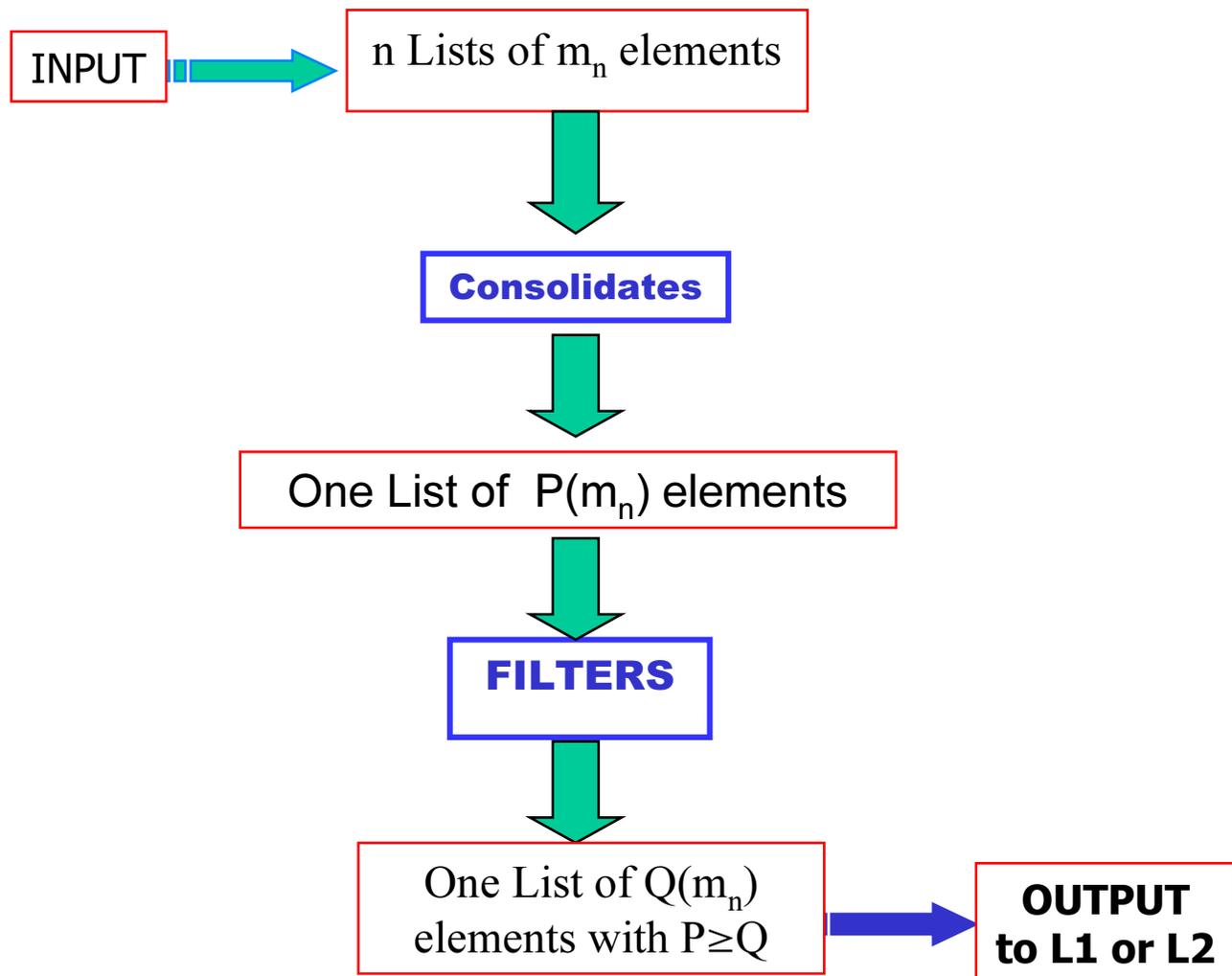
# BROADCASTER



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# THE BROADCASTER PROCESS DATA



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