Curr St.	MSB Loop Emt	GBE emt.	LSB EOF	int. Val.	Next St.	MSB Loop RD	LSB GBE RD	Int. Val.
00	1	1	0	6	00	0	0	0
00	1	1	1	7	00	0	0	0
00	0	1	0	2	01	0	0	0
00	0	1	1	3	01	0	0	0
00	1	0	0	4	10	0	0	0
00	1	0	1	5	10	0	0	0
00	0	0	0	0	01	0	0	0
00	0	0	1	1	01	0	0	0
01	0	1	0	2	01	1	0	2
01	0	1	1	3	00	1	0	2
01	0	0	0	0	01	1	0	2
01	0	0	1	1	00	1	0	2
01	1	0	0	4	01	1	0	2
01	1	0	1	5	00	1	0	2
01	1	1	0	6	01	1	0	2
01	1	1	1	7	00	1	0	2
10	0	0	0	0	10	0	1	1
10	0	0	1	1	00	0	1	1
10	1	0	0	4	10	0	1	1
10	1	0	1	5	00	0	1	1
10	0	1	0	2	10	0	1	1
10	0	1	1	3	00	0	1	1
10	1	1	0	6	10	0	1	1
10	1	1	1	7	00	0	1	1

States: 00= Decide
01= Loop RD
10= GBE RD

Comments
In the actual implementation on ROACH, we or the gbe and loop eof to be the LSB. This is because when we are reading from some fifo (loop or gbe) then the next eof will be from that respective fifo.