

	A	B	C	D	OUT						
0	0	0	0	0	0						
1	0	0	0	1	0						
2	0	0	1	0	1						
3	0	0	1	1	0						
4	0	1	0	0	0						
5	0	1	0	1	0						
6	0	1	1	0	0						
7	0	1	1	1	0						
8	1	0	0	0	0						
9	1	0	0	1	0						
10	1	0	1	0	0						
11	1	0	1	1	0						
12	1	1	0	0	0						
13	1	1	0	1	0						
14	1	1	1	0	1						
15	1	1	1	1	0						

STATE TRANSITION TABLE

	A	B	C	JA	KA	TB	DC	A+	B+	C+	
0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	0	0	1	0	0	1	0	2
2	0	1	0	1	0	0	1	1	1	1	7
3	0	1	1	0	0	0	1	0	1	1	3

[illegible]

## State Transition Table Other

	Present State			Input	Next State							
ABCx	A	B	Y	x	A+	B+						
0	0	0	0	0	0	0						
2	0	0	1	0								
4	0	1	0	0								
6	0	1	1	0								
8	1	0	0	0								
10	1	0	1	0								
12	1	1	0	0								
14	1	1	1	0								
1	0	0	0	1								
3	0	0	1	1								
5	0	1	0	1								
7	0	1	1	1								
9	1	0	0	1								
11	1	0	1	1								
13	1	1	0	1								
15	1	1	1	1								

	Present State			Input	Next State							
ABCx	A	B	C	x	A+	B+	C+					
0	0	0	0	0								
2	0	0	1	0								
4	0	1	0	0								
6	0	1	1	0								
8	1	0	0	0								
10	1	0	1	0								
12	1	1	0	0								
14	1	1	1	0								
1	0	0	0	1								
3	0	0	1	1								
5	0	1	0	1								
7	0	1	1	1								
9	1	0	0	1								
11	1	0	1	1								
13	1	1	0	1								
15	1	1	1	1								

	A	B	C	D							
0	0	0	0	0							
1	0	0	0	1							
2	0	0	1	0							
3	0	0	1	1							
4	0	1	0	0							
5	0	1	0	1							
6	0	1	1	0							
7	0	1	1	1							
8	1	0	0	0							
9	1	0	0	1							
10	1	0	1	0							
11	1	0	1	1							
12	1	1	0	0							
13	1	1	0	1							
14	1	1	1	0							
15	1	1	1	1							

STATE TRANSITION TABLE

	A	B	C	D							
0	0	0	0	0							
1	0	0	0	1							
2	0	0	1	0							
3	0	0	1	1							
4	0	1	0	0							

5	0	1	0	1							
6	0	1	1	0							
7	0	1	1	1							
8	1	0	0	0							
9	1	0	0	1							
10	1	0	1	0							
11	1	0	1	1							
12	1	1	0	0							
13	1	1	0	1							
14	1	1	1	0							
15	1	1	1	1							

[illegible]

[illegible]

/CD AB				C		
		00	01	11	10	
A	00					B
	01					
	11					
	10					
			D			
/CD AB				C		
		00	01	11	10	
A	00					B
	01					
	11					
	10					
			D			

KMAP

/CD AB				C		
		00	01	11	10	
A	00	0	1	3	2	B
	01	4	5	7	6	
	11	12	13	15	14	
	10	8	9	11	10	
			D			

/CD AB				C		
		00	01	11	10	
A	00					B
	01					
	11					
	10					
			D			
/CD AB				C		
		00	01	11	10	
A	00					B
	01					
	11					
	10					
			D			

/CD AB				C		
		00	01	11	10	
	00					



	01					B
A	11					
	10					
			D			