

bitsequenz
moore

S₁

2 vars

Nr	x2	x1	y
0	0	0	
1	0	1	
2	1	0	
3	1	1	

y:

	x2	x2'
x1		
x1'		

mapping $x_3 = s_1, x_2 = s_0, x_1 = A$

3 vars

Nr	x3	x2	x1	y
0	0	0	0	0
1	0	0	1	0
2	0	1	0	0
3	0	1	1	1
4	1	0	0	0
5	1	0	1	0
6	1	1	0	X
7	1	1	1	X

y:

	x3		x3'
x2	X	X	1
x2'			
	x1'	x1	x1'

$x_2 x_1$

$\rightarrow s_1 = s_0 A$

4 vars

Nr	x4	x3	x2	x1	y
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	

y:

	x4		x4'	
x3				x1'
				x1
x3'				x1'
	x2'	x2	x2'	

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S'0

2 vars

Nr	x2	x1	y
0	0	0	
1	0	1	
2	1	0	
3	1	1	

y:

	x2	x2'
x1		
x1'		

mapping

$$x3 = s1, x2 = s0, x1 = A$$

3 vars

Nr	x3	x2	x1	y
0	0	0	0	1
1	0	0	1	0
2	0	1	0	1
3	0	1	1	0
4	1	0	0	1
5	1	0	1	0
6	1	1	0	X
7	1	1	1	X

y:

	x3		x3'
x2	X	X	1
x2'	1		1
	x1'	x1	x1'

x1'

$$s'0 = !A$$

4 vars

Nr	x4	x3	x2	x1	y
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	

y:

	x4		x4'	
x3				x1'
				x1
x3'				x1'
	x2'	x2	x2'	

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g

mapping $x_2 = S_1$, $x_1 = S_0$

2 vars

Nr	x2	x1	y
0	0	0	0
1	0	1	0
2	1	0	1
3	1	1	X

y:

	x2	x2'
x1	1	
x1'	1	

$x_2 = x_2 = S_1$
 $\rightarrow y = S_1$

3 vars

Nr	x3	x2	x1	y
0	0	0	0	
1	0	0	1	
2	0	1	0	
3	0	1	1	
4	1	0	0	
5	1	0	1	
6	1	1	0	
7	1	1	1	

y:

	x3		x3'
x2			
x2'			
	x1'	x1	x1'

4 vars

Nr	x4	x3	x2	x1	y
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	

y:

	x4		x4'	
x3				x1'
				x1
x3'				x1'
	x2'	x2	x2'	

bit sequence 2 mealy

So

mapping $x_2 = 50$, $x_1 = A$

2 vars

Nr	x2	x1	y
0	0	0	1
1	0	1	0
2	1	0	1
3	1	1	0

y:

	x2	x2'
x1	1	1
x1'	1	1

$\rightarrow y = !A$

3 vars

Nr	x3	x2	x1	y
0	0	0	0	
1	0	0	1	
2	0	1	0	
3	0	1	1	
4	1	0	0	
5	1	0	1	
6	1	1	0	
7	1	1	1	

y:

	x3		x3'
x2			
x2'			
	x1'	x1	x1'

4 vars

Nr	x4	x3	x2	x1	y
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	

y:

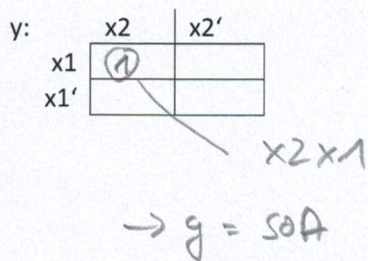
	x4		x4'	
x3				x1'
				x1
x3'				x1'
	x2'	x2	x2'	

bitsequence mealy y

mapping $x_2 = 50$
 $x_1 = A$

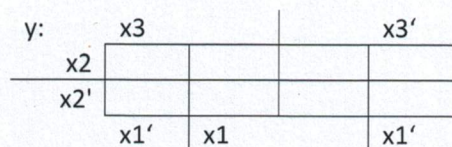
2 vars

Nr	x2	x1	y
0	0	0	0
1	0	1	0
2	1	0	0
3	1	1	1



3 vars

Nr	x3	x2	x1	y
0	0	0	0	
1	0	0	1	
2	0	1	0	
3	0	1	1	
4	1	0	0	
5	1	0	1	
6	1	1	0	
7	1	1	1	



4 vars

Nr	x4	x3	x2	x1	y
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	

