Lax-exempel 1

$x_i = \begin{cases} 1 & \text{täckt} \\ 0 & \text{annars} \end{cases}$

$u_1u_0 = \begin{cases} 01 & 1\text{-krona} \\ 10 & 5\text{-krona} \\ 11 & 10\text{-krona} \\ 00 & \text{f.ö.} \end{cases}$

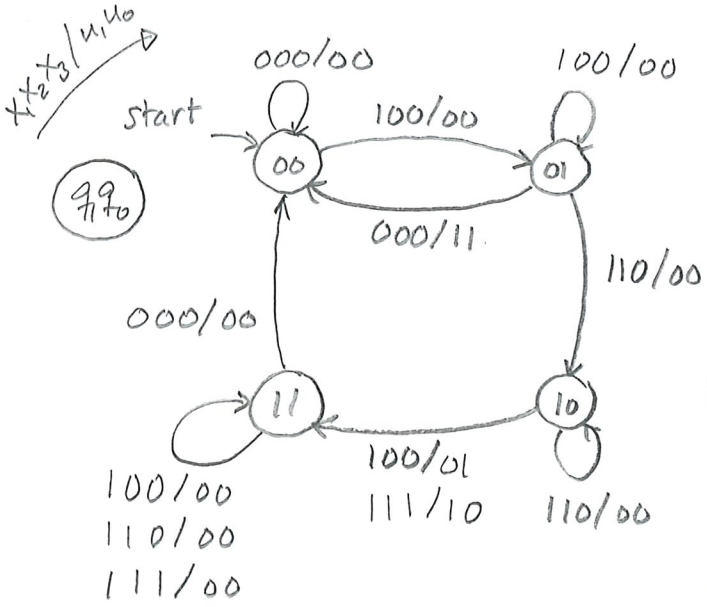
Scenario

10-krona: $x_1x_2x_3$: 000 → 100 → 000 → 10 krona, $u_1u_0 = 11$

1-krona: $x_1x_2x_3$: 000 → 100 → 110 → 100 → 000 → 1 krona, $u_1u_0 = 01$

5-krona: $x_1x_2x_3$: 000 → 100 → 110 → 111 → 110 → 100 → 000 → 5-krona, $u_1u_0 = 10$

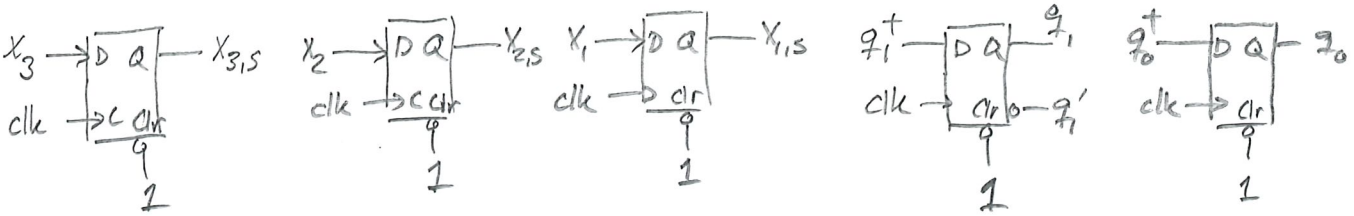
Tillståndsdiagram (Mealy)

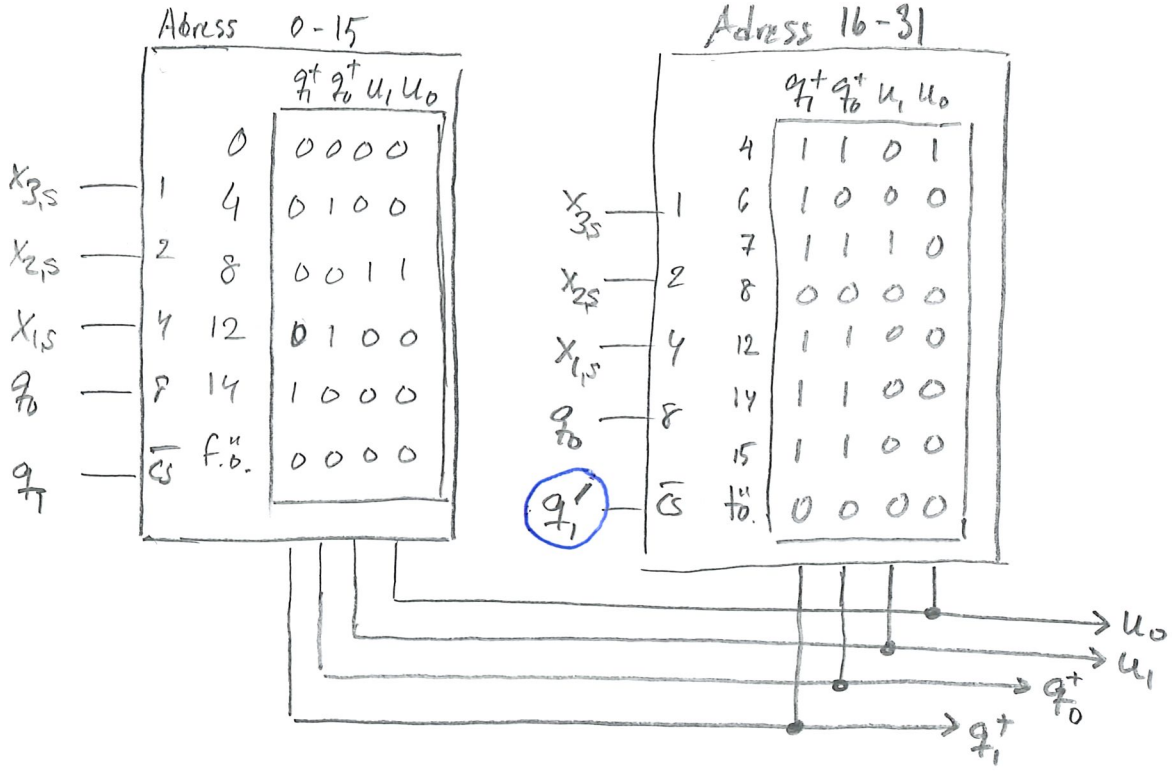


Tillståndstabell

	16 8 4 2 1 q_1q_0 $x_1x_2x_3$	$q_1^+q_0^+/u_1u_0$
0	00 000	00 / 00
4	100	01 / 00
8	01 000	00 / 11
12	100	01 / 00
14	110	10 / 00
16+4	10 100	11 / 01
16+6	110	10 / 00
16+7	111	11 / 10
16+8	11 000	00 / 00
16+12	100	11 / 00
16+14	110	11 / 00
16+15	111	11 / 00

Krets



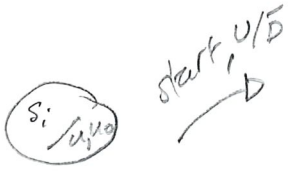


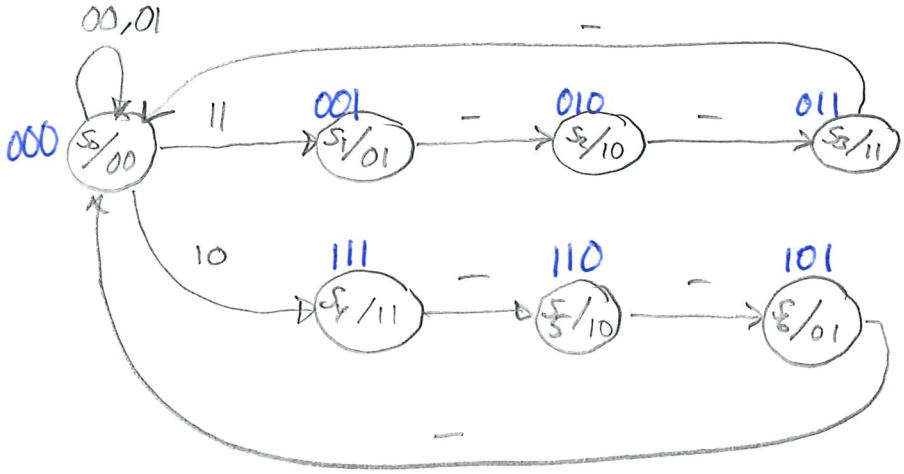
			q_1^+	q_0^+	u_1	u_0
		0	0	0	0	0
$X_{3,S}$	1	4	0	1	0	0
$X_{2,S}$	2	8	0	0	1	1
$X_{1,S}$	4	12	0	1	0	0
q_0	8	14	1	0	0	0
q_1	$\overline{CS}$	f.u.	0	0	0	0

			q_1^+	q_0^+	u_1	u_0
		4	1	1	0	1
$X_{3,S}$	1	6	1	0	0	0
		7	1	1	1	0
$X_{2,S}$	2	8	0	0	0	0
$X_{1,S}$	4	12	1	1	0	0
q_0	8	14	1	1	0	0
		15	1	1	0	0
q_1'	$\overline{CS}$	f.u.	0	0	0	0

LAX-exempel 2

Tillståndsdiagram (Moore)





Tillståndskodning

Moore: $u_i = f(q_2, q_1, q_0)$

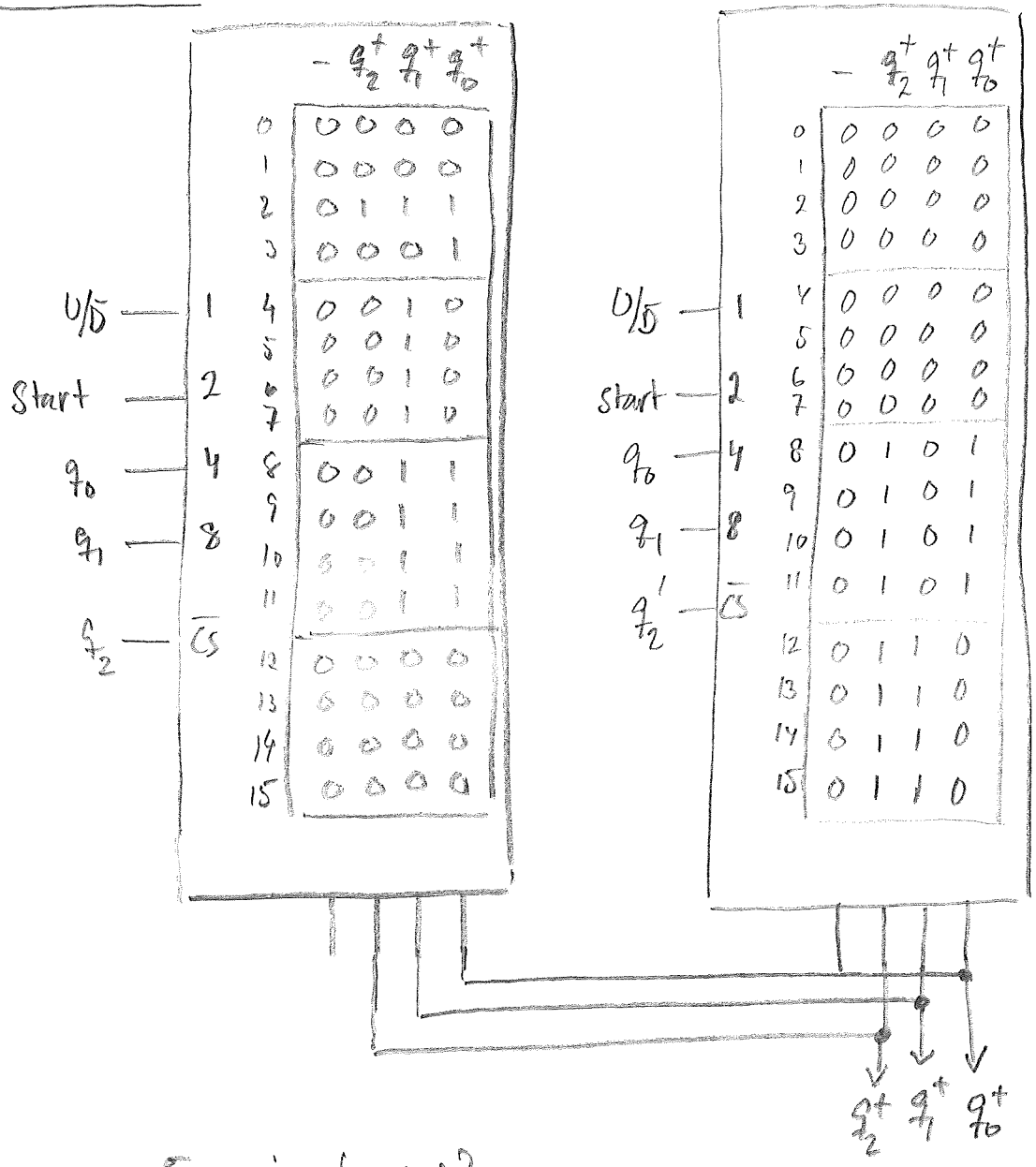
S_i	q_2 q_1 q_0	u_1 u_0
S_0	0 0 0	0 0
S_1	0 0 1	0 1
S_2	0 1 0	1 0
S_3	0 1 1	1 1
S_4	1 1 1	1 1
S_5	1 1 0	1 0
S_6	1 0 1	0 1

Välj $q_1 = u_1$ och $q_0 = u_0$

Tillståndstabell

	16 q_{T2}	8 q_{T1}	4 q_{T0}	2 Start	1 U/$\bar{D}$	q_{T2}^+	q_{T1}^+	q_{T0}^+
0	0	0	0	0	0	0	0	0
1				0	1	0	0	0
2				1	0	1	1	1
3				1	1	0	0	1
4-7	0	0	1	–	–	0	1	0
8-11	0	1	0	–	–	0	1	1
12-15	0	1	1	–	–	0	0	0
16-19	1	0	0	–	–	–	–	–
20-23	1	0	1	–	–	0	0	0
24-27	1	1	0	–	–	1	0	1
28-31	1	1	1	–	–	1	1	0

Kretsschema



För $i \in \{0, 1, 2\}$