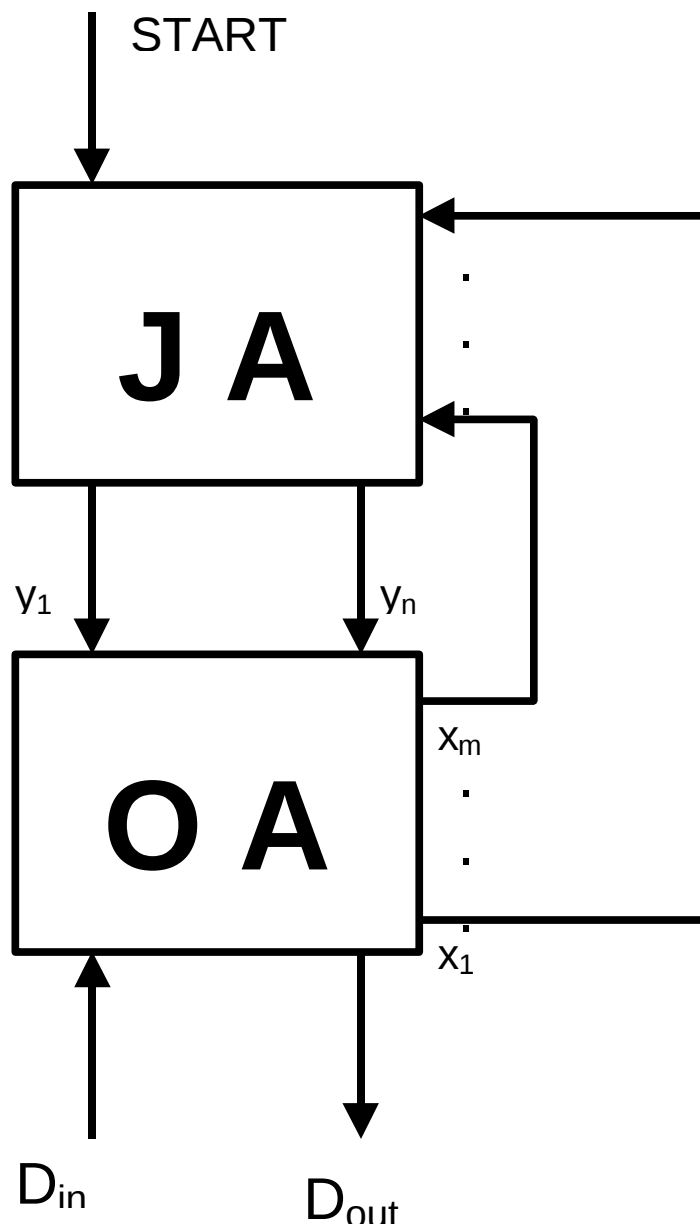


Tehete realiseerimine

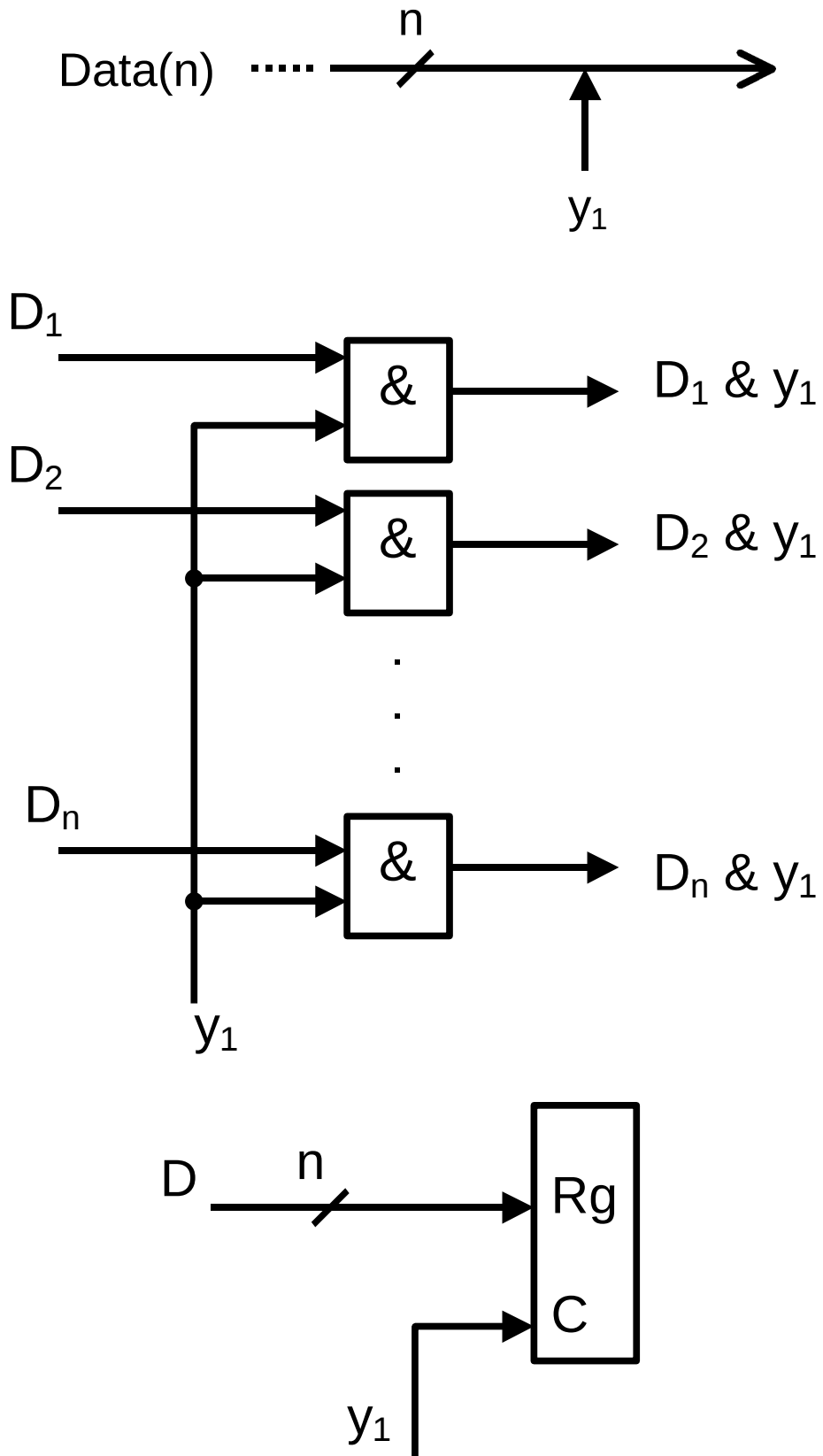


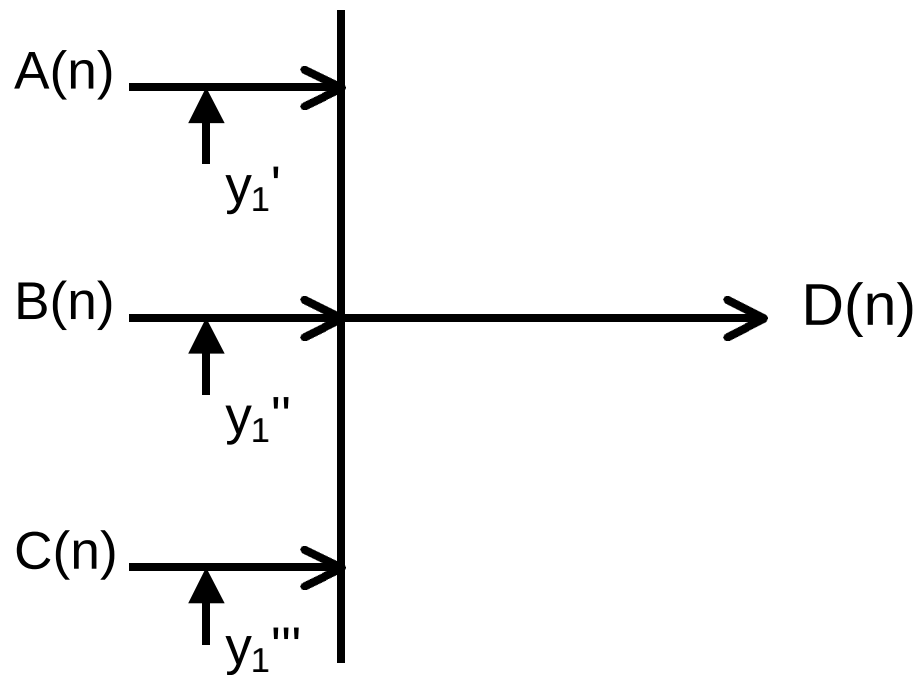
Juhtautomaat vt. Digitaalsüsteemide kursus

Järgnevas: AGS

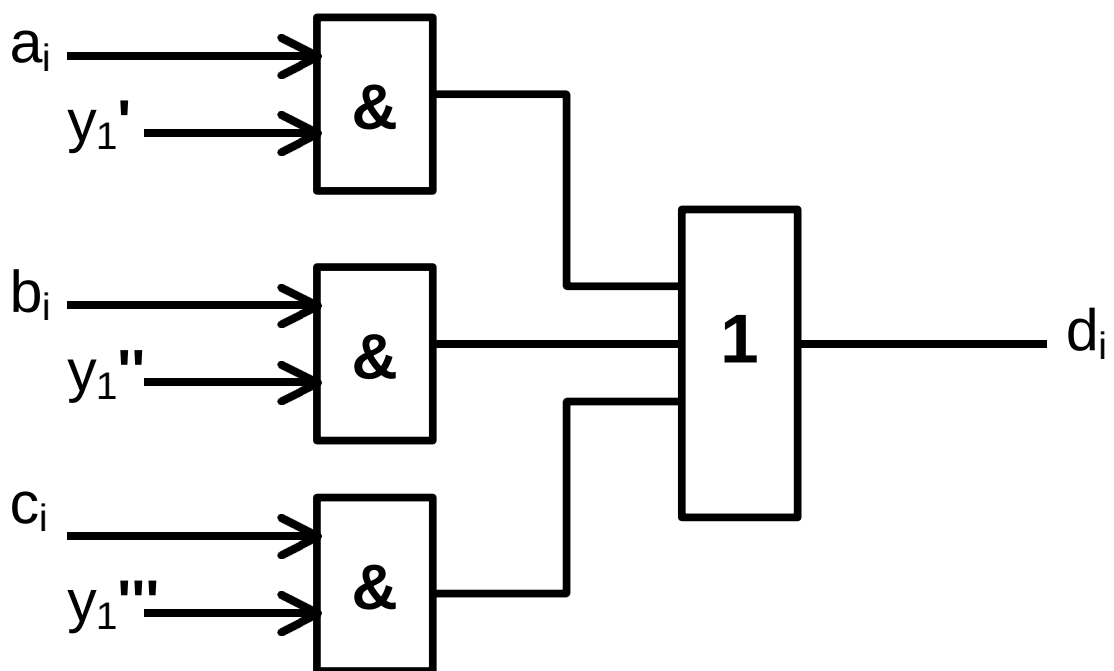
Operatsioonautomaat

1. Siinid

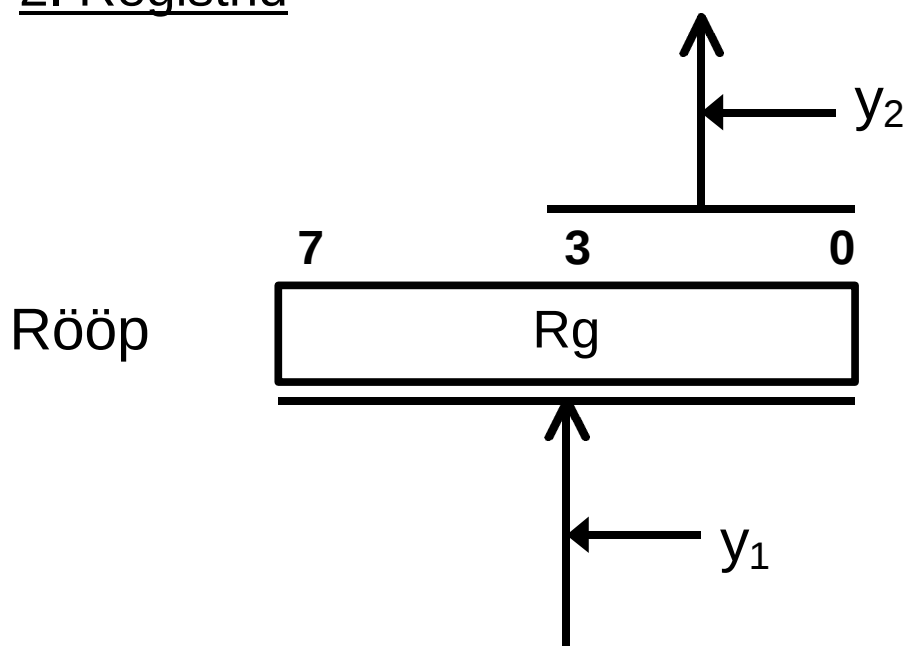




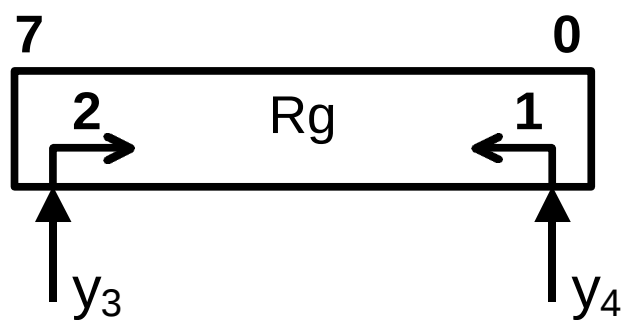
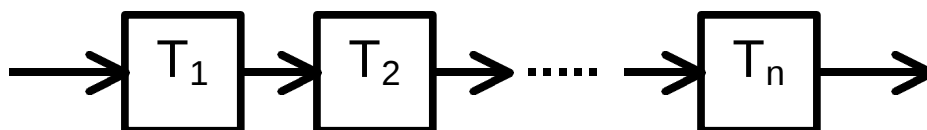
$$D(n) = A(n) \cdot y_1' \vee B(n) \cdot y_1'' \vee C(n) \cdot y_1'''$$



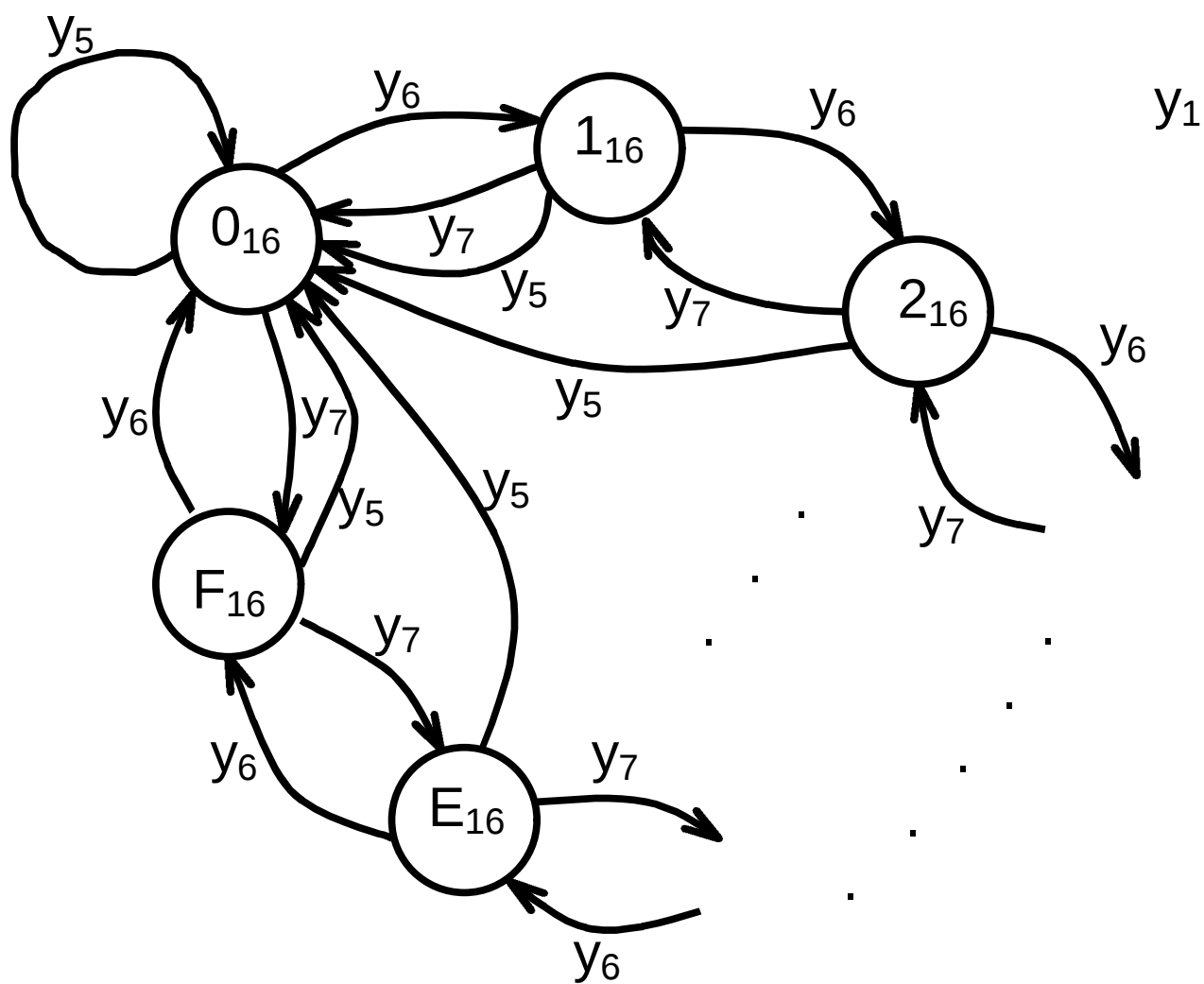
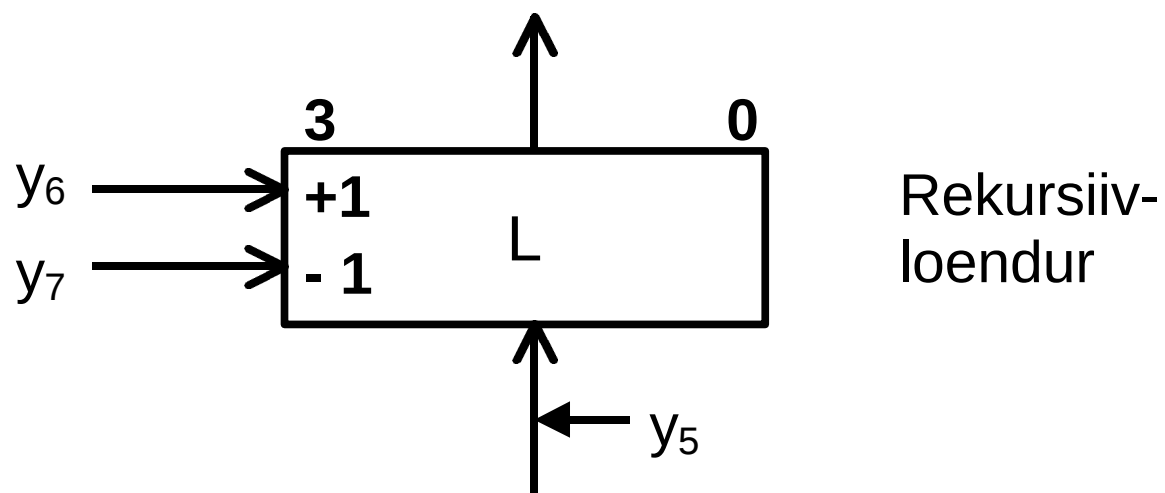
2. Registrid



y_i - mikroopertsioon



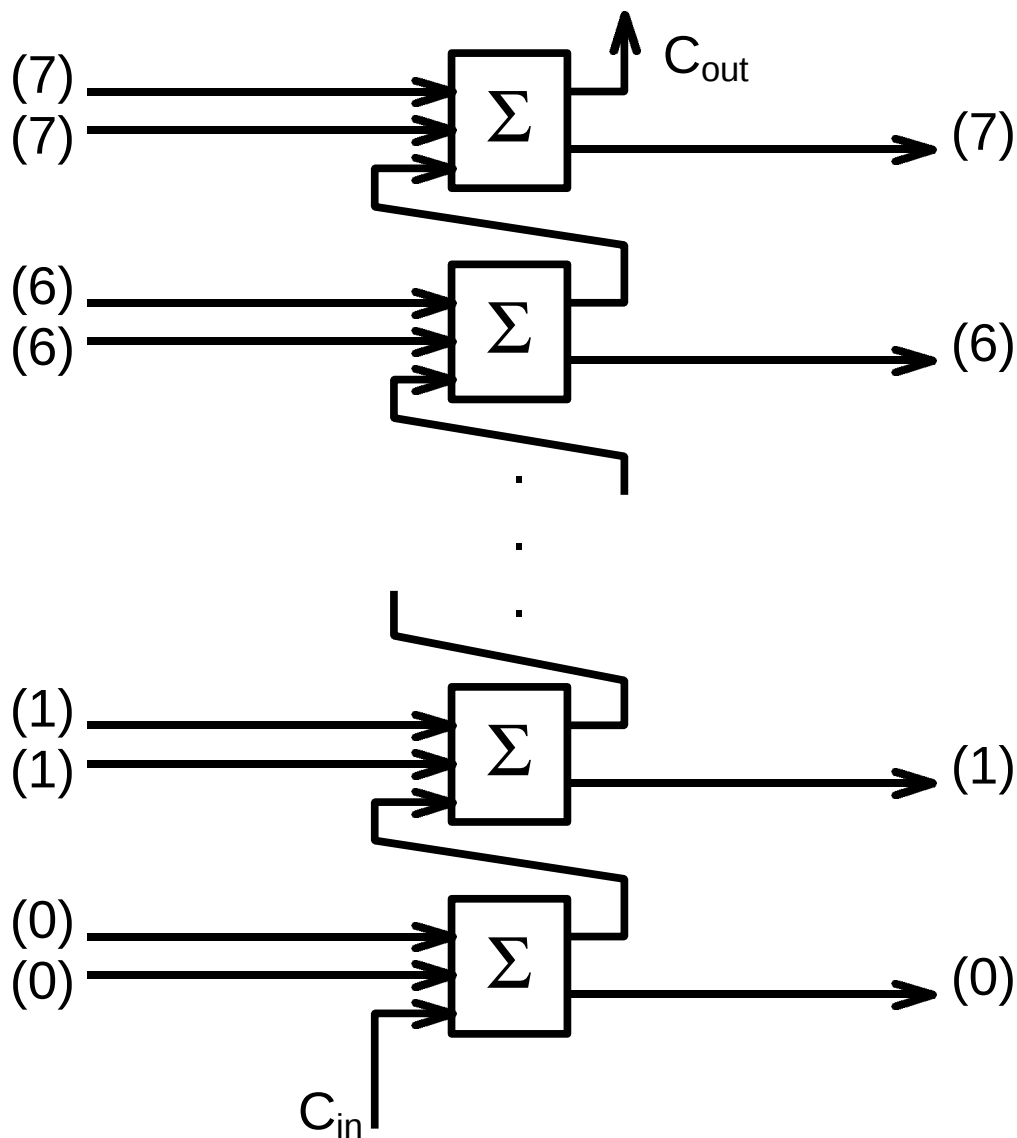
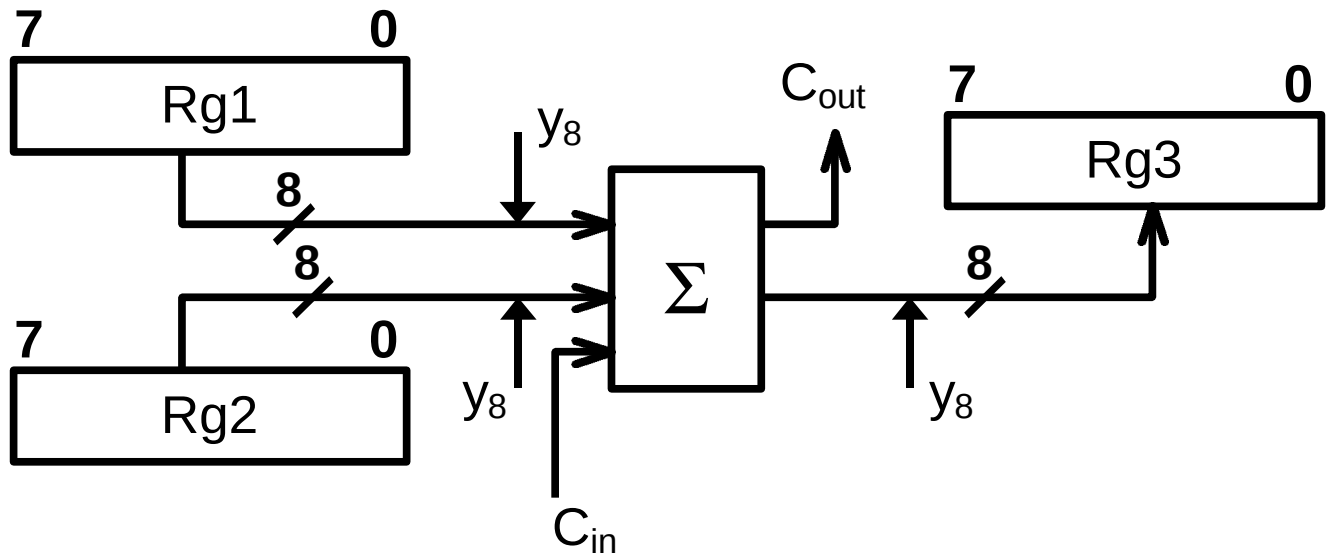
3. Loendurid



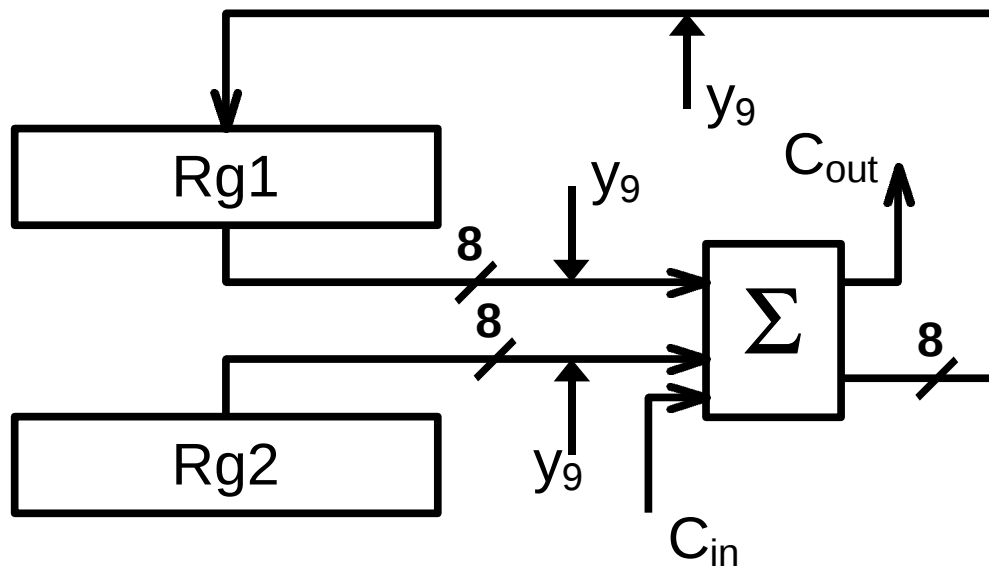
4. Summaatorid

Paralleelsummaator

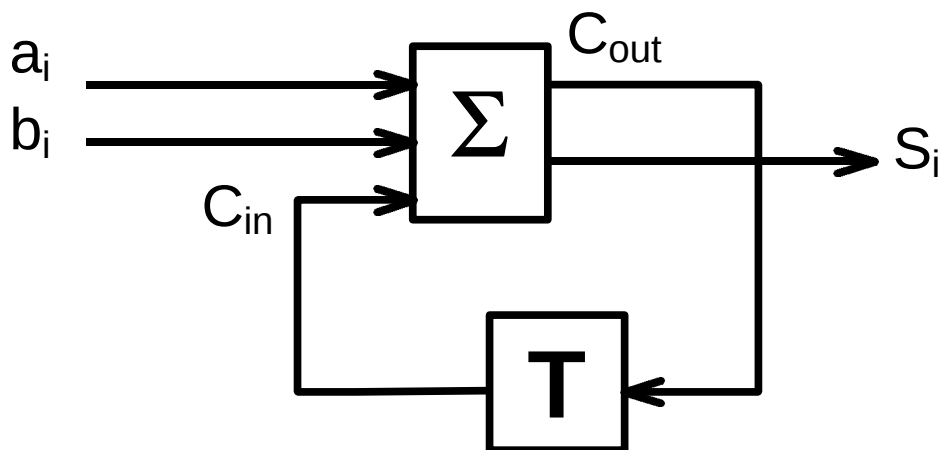
- komb. Σ y_8 : $Rg3 := Rg1 + Rg2$



- Acc. Σ $y_9: \text{Rg1} := \text{Rg1} + \text{Rg2}$



Järjestiksummaator



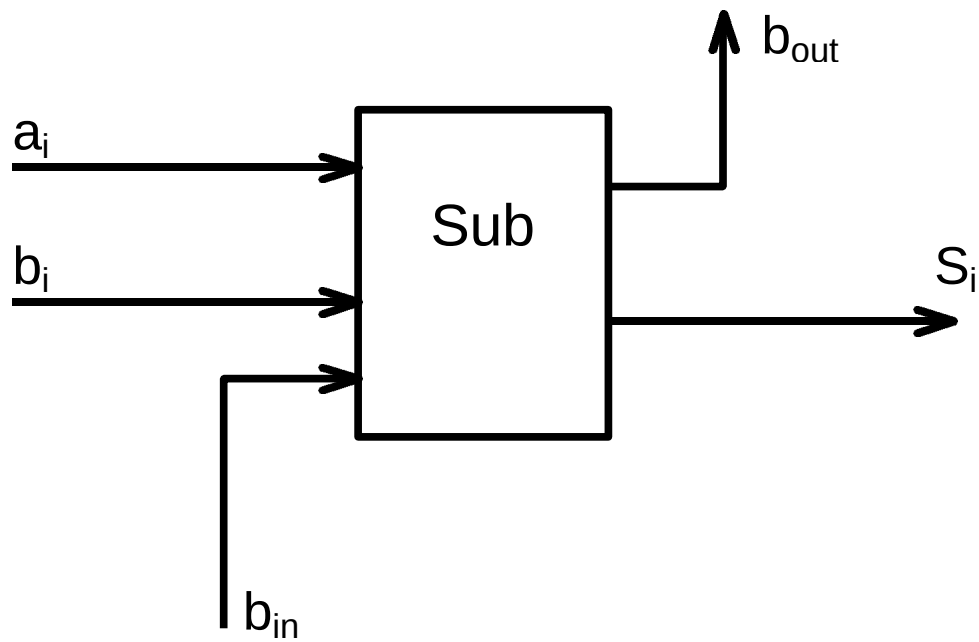
Mikrooperatsioonid:

- omistamine: $Rg1 := Rg2$
- väärtustamine: $Rg1 := 0$
- loendamine: $L := L+1$
 $L := L-1$
- summeerimine: $Rg1 := Rg1 + Rg2$
- nihked: $Rg1 := L1 (Rg1.0)$
 $Rg1 := R2 (00.Rg1)$

Loogikatingimused:

- avaldatavad loogikaavaldisena

N1. Lahutusskeem



$$\begin{array}{r}
 \quad 1\ 0\ 1\ 1\ 0\ 1\ 0 \\
 A \quad - 1\ 0\ 1\ 1\ 0\ 1\ 0\ 1 \\
 B \quad 0\ 1\ 0\ 1\ 1\ 0\ 1\ 1 \\
 \hline
 0\ 1\ 0\ 1\ 1\ 0\ 1\ 0
 \end{array}
 \quad \swarrow B_{in} = 0$$

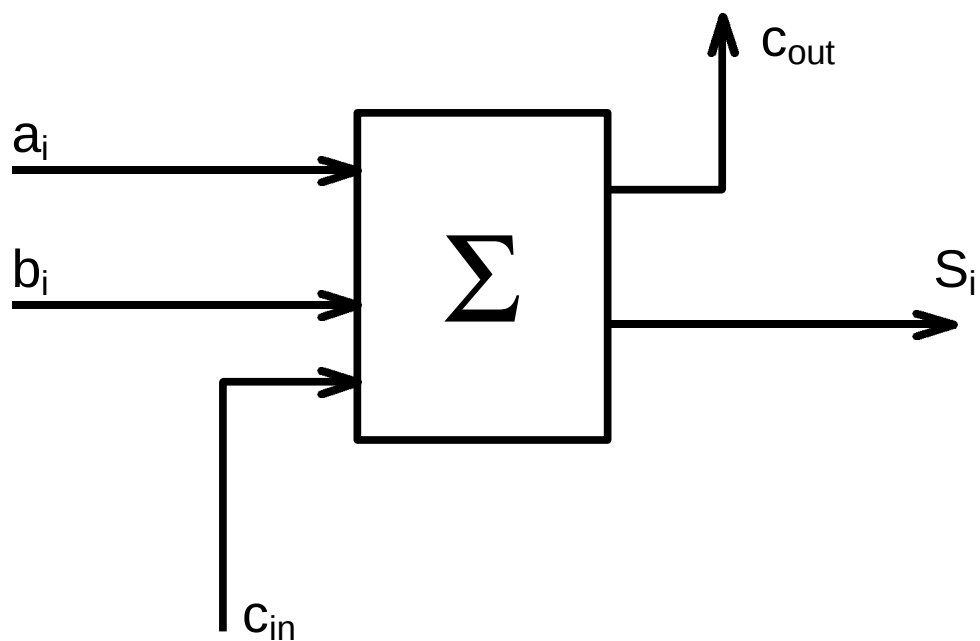
a_i	b_i	b_{in}	b_{out}	S_i
0	0	0	0	0
0	0	1	1	1
0	1	0	1	1
0	1	1	1	0
1	0	0	0	1
1	0	1	0	0
1	1	0	0	0
1	1	1	1	1

Leida

$$b_{out} = f(a_i, b_i, b_{in})$$

$$S_i = f(a_i, b_i, b_{in})$$

N2. Summaator



Leida

$$S_i = f(a_i, b_i, c_{in})$$

$$C_{out} = f(a_i, b_i, c_{in})$$

$$S_i = f(a_i, b_i, c_{in}, c_{out})$$